Mold Technologies Division

Division of Society of Plastics Engineers

Volume 39, Issue 2, January 2018

Message from the Chair

Brenda Clark

SPE Mold Technologies Division Chair

The Mold Technologies Division board and I wish everyone a joyous New Year 2018. This year will be a busy one for SPE with events, technical sessions and happenings highlighted here for our division.

The new micro web-site for The Mold Technologies Division is being prepared now just as this newsletter is going into print. Please visit the site at MTD.4spe.org when you finish reading this newsletter and catch up with the latest information.

Along with this new site further membership communications will be present at ANTEC2018/NPE2018, Amerimold, and IMTECH events this coming year. Be sure to check out the Mold Technologies Division booth at these event locations. Stop by and pick up a DVD to give to your local high school and help promote mold making and mold design for students!

With this exposure and your help the division hopes to raise much awareness towards mold making and mold design careers through SPE educational awards. The mold maker and the mold designer of the year award and the education grant programs are looking for nominees. You will find copies of applications here, on our website, and/or contact any board member. The board is here to assist and help to get the membership recognized. If you know of any school looking for grant funding for mold making and mold design, please let us know. 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.

While the board has a complete roster for director positions we still can use your help in many ways and there are openings for interested members within our board. If you know of someone or are interested yourself please 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. The industry is building back up and the membership is on the rise this year. SPE is a wonderful resource for professional education, technical sessions and library archives but also for peer networking.

ANTEC 2018 is in the same location with NEP 2018 to be held May 7-10, 2018 at the Orange County convention Center in Orlando, FL. NPE will be held May 7-11, 2018. Plan to attend and join one or more of

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Letter From the Editor: *The Holy Grail for Plastic Parts: No Molds*

Clare Goldsberry

SPE Mold Technologies Division
2017/2018 Newsletter Editor

Let's face it – OEMs don't really like to buy molds. In fact, it's the bane of their existence to work with mold makers on mold design and development, testing, tryouts and process validation. It's downright expensive! And sometimes it's all for a part that costs $0.50 – but an important part nonetheless.

So imagine how excited these OEM product developers and engineers are at the prospect of being able to get the parts they need without having to buy a mold! They are giddy with glee at that idea.

If you don't believe me, just take a look at the number of OEMs that are investing in 3D printing – and in a big way!

There are several reasons why OEMs are investing in both metal and plastic 3D printing. When it comes to metal 3D printing there are more opportunities to make production parts to use in applications such as aerospace, automotive and medical. GE Aviation saw that handwriting on the wall a number of years ago when it purchased Morris Technologies to make parts for its Leap engine. Today, with more than a 70% share of Arcam and 75% share in Concept Laser, GE is capturing a large share of the 3D metal printing market for both machines and materials.

Plastic 3D printing doesn't quite have the opportunities for printing production parts that metal has – yet. However, with the advancements in polymer materials, the larger build boxes and faster print speeds, the time is coming when there will be applications for printing production parts.

I'd be more worried if I were a metal parts fabricator than if I were an injection mold maker and molder. Still, with the ability to 3D print molds that can produce 100 or so actual injection molded parts for prototype trial runs, 3D printing is edging into the mold and molding space. 3D printed polymer parts are being produced faster and in greater quantities with 40,000 being a good "break-even" point.

Many OEMs continue to hope for a 3D printed metal mold that can produce injection molding parts with a suitable surface finish – something that is a problem for 3D printed plastic parts – to eliminate the costs of designing and building a mold.

If I were a mold maker, I'd be looking at ways to leverage 3D printing for my business and 2018 seems like a good time to do that.

Clare Goldsberry, Editor

Sponsor's Index

Message from the Chair

(continued from page 1)

the technical sessions. 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.

Amerimold 2018 is held in June, this year it will be June 13-14, 2018 in Novi, MI. This is where we will announce the Mold Maker and Mold Designer of the year. A ballot is included with this winter issue. Start thinking about some candidates now and let us know. Candidates do not need to be SPE members, but should be someone who made significant contributions in their profession and advancements in the plastics industry.

IMTECH 2018 will be in Akron, OH in November 6-8, 2018. Keep these dates open for the year and technical sessions. We hope to see all the members at one or more of these events.

To keep supporting these events and programs the division is seeking more sponsors. Sponsors assist with contributions going directly to support the education grand funding. If you or your company are interested, please contact our sponsor chair, Renee Nehls.

As always, the division board is open to the membership and comments are welcome. Visit the website or on The Chain at http://thechain.4spe.org to post a comment and to see the latest news from the Mold Technologies Division. Now, enjoy the rest of this division's newsletter…hope to see you all soon at one of the above mentioned events.

Brenda Clark

Tooling Industry News:

SST, a global distributor of leading machine tool technology such as Makino, and related consumables, announced its collaboration with SmalTec International to bring the EM203 and GM703 micro-precision electrical discharge machine (EDMs) to SST's West, Mid-Atlantic and Northeast regions.

Based in the Chicago area, SmalTec is a machine manufacturer known for high- and ultra-high precision equipment and providing comprehensive, turnkey solutions. SmalTec offers leading micromachining equipment for a variety of industries including mold manufacturing. The company is dedicated to improving and advancing the small technology industry.

"This complementary partnership signifies our commitment to offer a range of solutions specifically for extreme precision in micro-sized components," said Mark Logan, director of business development, SST. "We recognize that many manufacturers consider micromachining to be difficult, if not impossible, to manufacture commercially. For that reason, we are pleased to bring technologies that deliver on accuracy and surface-finish requirements to these customers through our partnership with SmalTec."

SmalTec's EM203 and GM703 micromachines combine high-precision CNC technology with highly adaptive EDM sensing and machining. These models create complex 3D designs using a 0.30 micron spark size at a 5-nanosecond frequency, the industry's smallest and fastest spark size, said SST. Tolerances are held within 10 nm, creating "unrivaled surface quality and feature-size capabilities."

Polishing can be completed on the inside of micro holes, features, mold cavities or pins. Additionally, micro holes with significant aspect ratios are achievable, from 10:1 at 5 microns to 40+:1 at 100 microns, said the company.

The EM203 and GM703 have recently been upgraded to use a new and advanced in situ metrology process, electric flux measurement (EFM). EFM is a patented process that uses a traditional CMM-style methodology but senses the proximity of a surface before coming in contact with it, making it nondestructive. Micro probes used with EFM can be custom-shaped using the micro-EDM. Today, micro features can be created and measured at nanometer precision during the machining process.

"Working with SST will enhance our market penetration into high-volume production customers and allow us to better serve manufacturers across industries, including medical, aerospace, semiconductor, optics and automotive," said Jerry Mraz, general manager and owner of SmalTec International. "We are thrilled to broaden our capabilities and offerings as well as our reach."

HRSflow HPgate

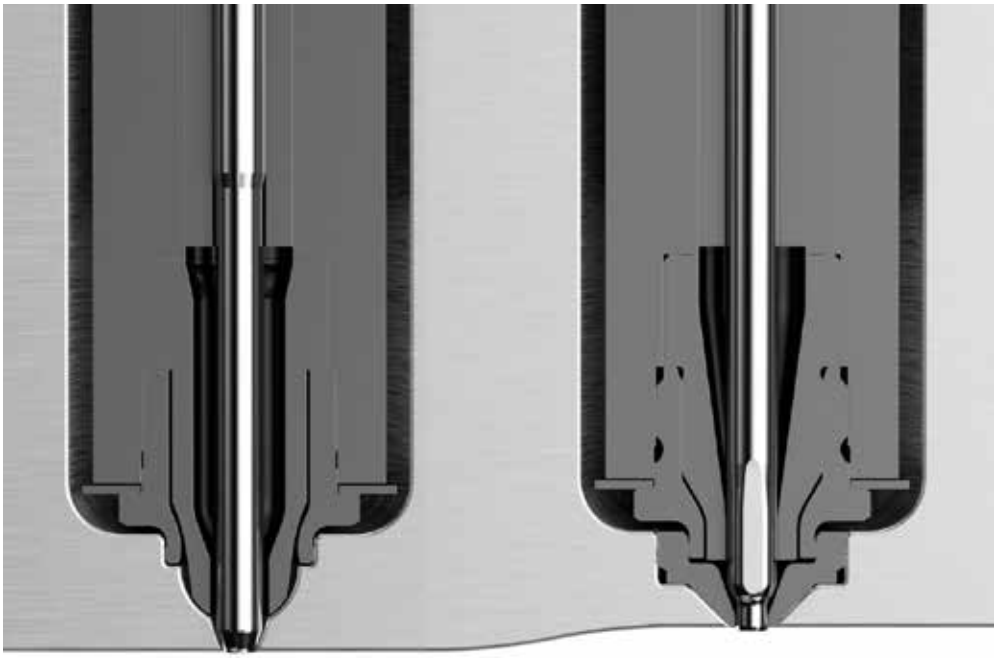
Any time the process window can be opened to provide more optimum molding conditions, molders love it. With its new HPgate, hot runner specialist HRSflow (San Polo di Piave, Italy) introduces an innovative, quality-enhancing, cost-saving valve gate solution for the manufacture of high-quality parts without flash. Compared to the conventional versions, the gate is machined on a hardened metal insert produced by HRSflow. This insert is simply screwed into the mold, so it's easy to replace it in the event of wear.

The HPgate from HRSflow (U.S. office in Byron Center, MI) enlarges the process window and improves the quality of the molded part and saves the mold maker time-consuming and complex machining of the standard cylindrical gate.In fact with the gate geometry already machined on the insert, the HPgate from HRSflow eliminates the difficulties connected with the cylindrical configuration including narrow tolerances, large and variable depths and providing coaxiality between needle and gate. Equally beneficial for the moldmaker is the outstanding hardness of the insert, meaning that a softer steel could also be chosen for the mold plates.

Another advantage comes from the special needle geometry in which the conical contact surface allows a better thermal control of the needle temperature, while the precisely aligned cylindrical needle closure creates the seal. With the conventional conical configuration, when the valve closes, there is always the formation of the typical plastic layer at the gating point. When the mold opens this layer is torn off from the part and it could lead to flash formation.

In order to get a good detachment and avoiding flash, typically a very fine adjustment of the process conditions is required. Through the elimination of the layer due to the cylindrical needle closure, the HPgate solution reduces the time required to optimize the respective process parameters. Excellent molding quality is attained much faster, which is basically equivalent to enlarging the process window.

An even higher gate quality can be obtained by combining the HPgate technology with HRSflow's FLEXflow technology. Here, the needle position can be precisely controlled, thereby reducing even further the influence of the process conditions. The result is high-quality reproducible parts with optimum gate aesthetics.



Standard Gate *HPgate*

New Product Announcements:

Synventive is pleased to introduce their new synflow3® technology that gives molders all the abilities of previous versions of synflow® and much more. Synflow technologies help molders eliminate cosmetic defects on sequentially filled parts caused by sudden flow front accelerations and stagnations created when the delayed pins open. This next generation synflow brings more advanced features, which allow molders to quickly and easily define the complete molding parameters for a specific application.

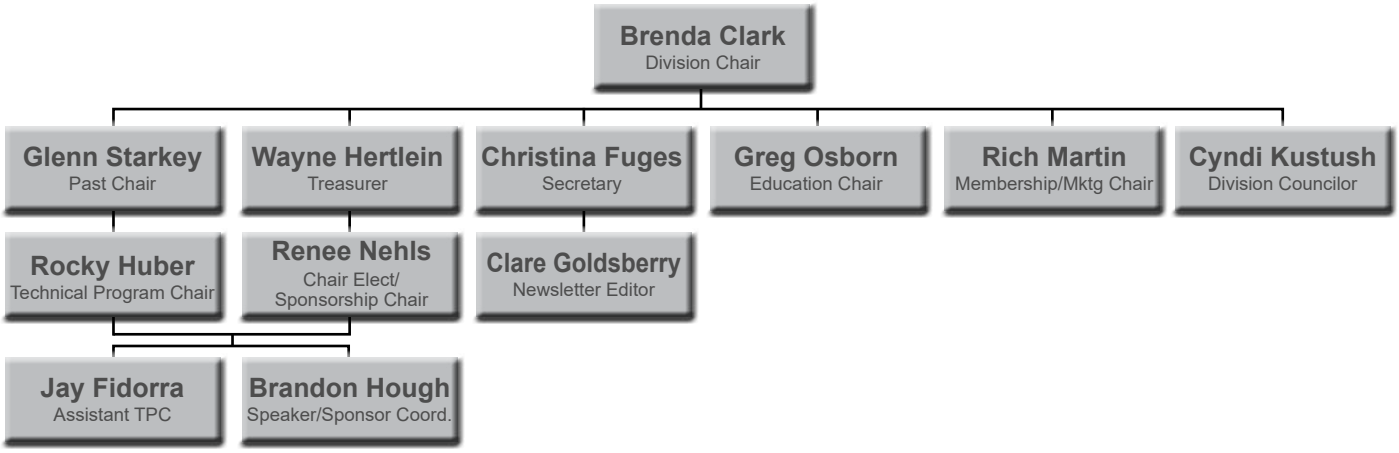
The most significant addition to synflow's functionality is the ability to stop the pin and hold it at any position mid-stroke. This allows for individual flow rate control of each nozzle to balance family molds or fill complex multi-gated geometries. Alternating opening profiles can even be programmed offering the ability to pre-fill cold runners or create differential packing within complex multi-gated parts. Features include:

- No connection to the injection molding machine necessary
- Test the functionality on the actual tool without committing to additional equipment
- Same controls equipment can be used on multiple systems
- Pin sequencing is still done through current process simplifying use for machine operator
- New software platform designed for ease of use
- Ability to stop the pin mid-stroke to independently regulate filling or packing of each nozzle
- Ability to program alternating moves allows for prefilling of cold runner or differential packing

The most significant difference between synflow and other pin control technologies currently on the market is the ability to easily upgrade to it after parts have been molded. During mold sampling, if it is determined through a brief trial that synflow would benefit the process, the technology can be installed and running in a matter of minutes. All Synventive valve gated hot runners can come standard with SVG+®, which includes position sensors that allows for the simple upgrade. The synflow technology can be added to any activeGate® enabled system through simple external hookups. Molders no longer need to commit to these flow control technologies for the life of the tool, not knowing if they will ever actually be needed.

MOLD TECHNOLOGIES DIVISION

2017/2018 BOARD OF DIRECTORS



OUR MISSION

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

CONTACT INFORMATION

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HASCO APP Update:Cartridge Heater Calculator

As a leading global supplier, HASCO has always opted for innovation and efficiency whenever service is concerned. With its highly popular mobile phone app – which has been developed in-house and continuously expanded – the German manufacturer of standard mold units offers mold makers, technicians, designers, buyers, teachers, students and pupils numerous possibilities for simplifying mold construction. The fitting accuracy, and reliable quality support the fast and efficient design and manufacture of complex molds.

The HASCO app has now been extended with an innovative tool: the new heating cartridge calculator that enables fast and simple calculation of the required power to heat mold plates or other applications. By entering individual parameters, the required heating power for different materials can be calculated quickly and easily according to the required heating-up time. The tool is geared specifically to the proven heating cartridges Z110/ and Z111/.

The tried and tested functions and tools of the HASCO app include: Material Selection, Hardness Value Conversion, DIN/ISO tolerance for shafts and holes, a tool for the layout and sizing of Locking Cylinders, and a Thread Tool for recognizing the thread pitch, along with the OD/ID and flank angle diameters. With the Cutting Data Calculator, milling data such as feed, rotational speed and cutting volume can be individual determined.

In addition to these practical tools, the app allows users to check the latest news, videos, job vacancies and general HASCO information at any time. Finding your local contact person within HASCO is also possible. The real beauty of the App is that all the tool functions can be use without internet connection.

ATTENTION
MEMBERS OF SPE MTD

The Newsletter editor is asking that you send your news about new products, your company news, and anything that would be of interest to the members of our Mold Technologies Division. Please forward these news items at any time to clarewrite@aol.com.Thank you!

SPE Mold Technologies Division
December 7, 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 7-December 2017

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

3:04pm CST meeting called to order

Division Chair Report – Brenda Clark

- Opening Comments. Please use The Chain as much as possible. We should be posting news and calls for papers or other important communications with our members.
- Request when responding via e-mail. Reply with respect for all. Refrain from “replying to all” when answering email. Answer to sender only (unless necessary).
- Nominations. Open terms addressed. Brenda contacted the two board members who have terms running out, or open, and they agreed they will continue to help and wish to renew or be on the nomination list. Now we need one other person for nominations, but more than one would be good.

Chair Elect Report – Renee Nehls

- Nominations/Elections. Due December 15th. Chair Elect, Renee would like to have at least three nominees for board position, plus a write-in,

so please think about any person who might like to get involved.

- Rich asked about third potential board member and what they would do if elected. Renee says no specific duties, but great for helping out wherever needed as a “co-chair” or supporting team member.
- Division Goals. Pinnacle Award update. Due date 1-26-2018. Coming together and will be submitted on time.

Division Secretary Report – Christina Fuges

- Minutes from October 2017 were approved on November 6, 2017.

Treasurer’s Report – Wayne Hertlein

- Checking balance: $28,771.61
- Investment Accounts Total: $89,469.62

MTD Total: $118,241.23

- ITQ Foundation
  - Michigan Dept. of Treasury: $536.99
  - Investment Account: $39,905.66
  - ITQ Total: $40,442.65

MTD Net Worth: $158,683.88

Rich Martin made a motion to accept the report as written; Glenn Starkey seconded the motion. All voted in favor. Motion passed.

Goal: Integrating an accounting firm for accounting functions. Rich asked about having an official backup person for managing our accounts and transparency being important.

Mini Tech Report / TPC Report – Rocky Huber (Jay, Brandon)

- TPC/ANTEC 2018 update. Rocky updated every

one on ANTEC speakers. He is sending reminders to invited speakers about the Dec. 15 deadline for papers.
  - 2018 Injection Molding Div. Someone from the IM Division will be contacting Rocky. Interested in a joint session. The Additive Mfg. Division wants to do its own thing due to special programs planned. Rocky could use some leads on good speakers. Glenn reminds him that just about everyone exhibiting at NPE (co-located with ANTEC) is showing up with NEW technologies and products that can be presented. Brenda sent out a last call for papers on The Chain this morning.
- Technical Tours (Greg, Glenn). Glenn will connect with Greg. The site they were considering has already done a tour, so need to rethink a location. Brenda reports that Nov. 5-8 in Cleveland/Akron, Ohio, IM Tech, an injection molding technical conference, has invited us to participate. We should plan to exhibit. This is an SPE event, so the space should be free of charge (or reasonable).

Division Councilor Report – Cyndi Kustush

- Council meeting, Remote December 15, 2017.
- Cyndi will be sharing some “best practices” from calls she makes to a few divisions as part of the committee work she’s doing.

Membership Chair – Rich Martin

- December 2017: Total is 585 members; all categories up from October 2017 report
  - 502, professionals, 41 students, 24 young professionals, 16 emeritus, 2 distinguished
  - USA: 399
  - World: 186
- Rich polled some engineers/customers he met with and found none are SPE members. So he pitched membership and recommended that they visit our website and consider joining our division. These were young engineers, too.
- Cyndi suggests reaching out and welcoming the 22+ new members, inviting them to get more involved. Brenda will meet with Rich separately to put a plan together.

Sponsorship Chair Report – Renee Nehls

- Sponsorship/collections status. No new collections, and none anticipated this year. Is sending a note to advertisers who have not paid, thanking them for support and telling them that their ad will be removed. Need more sponsors! Challenge ourselves to find at least one new person/company!
- Renee attended a Skills USA event at a local school. Walked around and introduced herself, promoted SPE and our scholarship program, passed out the MMT DVD about career paths into moldmaking, etc. Met several teachers and felt it was a great event.
- Brenda suggested: Is there a way every board member in division can have at least a couple copies of that DVD, so it’s handy to distribute at events or opportunities like Renee’s visit to the competition? Glenn will assess the inventory he has at PCIC of those and send a few copies out to each board member.

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HotRunnerSystems
A business of BARNES GROUP INC

Thermoplay in North America. Brought to you by Synventive.

Thermoplay, a reliable source in Europe for the past 43 years, is an expert solutions provider for medical, packaging and caps and closures. Now available here in North America; and backed by Synventive – the industry leader in service and support.

Synventive
molding solutions
A business of BARNES GROUP INC

In 26 countries – Worldwide | www.synventive.com | www.thermoplay.com

Web site Report – Jay Fidorra

- Set-up to begin November 2017. Need address and graphics.
- Motion (Renee) to have MTD.4SPE.org as our new URL Second: Rich. Unanimously passed. This new URL will replace the SPE main URL on our new booth backdrop. Jay will contact Allan at the SPE to get things going.

Newsletter Editor Report – Clare Goldsberry

- Winter, December 12th for January 2018. Clare is working on the next NL, but is having issues collecting news from sponsors. Proposes having a business card ad size available for NPE exhibitors to promote their presence at the show. Brenda will ask at HQ about promoting advertising on The Chain.
- Clare needs Brenda's Chair Letter column. Brenda will welcome the new members.

Awards Chair Report – Wayne Hertlein & Glenn Starkey

- Mold Maker of the Year and Mold Designer of the Year. Glenn reports that he and Wayne met recently and they have some ideas on candidates, but will also put a call out for help finding more candidates. Deadline Jan. 15.
- Fellows and HSM should be on agenda for next year, as the deadline passed this year.

Education Chair Report – Greg Osborn

- Grant Status. New year applications. Greg has sent out grant letters with goal of receiving responses by end of January so that we can vote on recipients and have signage at shows in which we participate. He will supply electronic copies of the grant letter to board, so we can forward to any contacts.

Division Marketing Report – Rich Martin & Glenn Starkey

- New Booth setup update. Rich reported that he and Glenn worked on updating graphics for the booth.
- All present agreed to go with option 9 for the display and rev7 for the graphics, so Rich will proceed with new display and table throw. Have a cost now ($200.00) for replacement graphics for our banner (for future reference). Total costs of display and table throw are under the approved cost of $3500.00.

Upcoming Industry Events

Plastics News – Plastics in Automotive
Jan 15-16, 2018
Marriott Resaissance Center, Detroit, MI
www.plasticsnews.com/section/events

Plastec West Expo
Feb. 6-8, 2018
Anaheim Convention Center, Anaheim, CA
www.plastecwest.plasticstoday.com

Molding 2018
Feb. 27-Mar. 1, 2018
Hilton Long Beach, Long Beach, CA
https://www.moldingconference.com

New Business

- ANTEC/NPE need papers submitted.
  - Injection Molding Division's reception, which costs them $20k to host each year. Sponsorship levels have been shared with board by Brenda. Please review so we can discuss and vote by our next meeting.

Next Meeting:

- Tentative: Week of February 8th, TBD (4:00 PM EST)
- Newsletter specials "ANTEC/NPE" ideas for March Newsletter
- Joint relations SPE MTD and MMT
  - Christina is working from the MMT end to establish our current trade and other options.
- On waiting list for booth location for NPE/SPE ANTEC 2018

Motion to adjourn – Glenn made the motion, Rich seconded. Happy Holidays, everyone!

Meeting ended at 5:35 PM (Eastern) 4:35 p.m. (Central)

Respectfully submitted,
Christina Fuges, Secretary to the Board

Dear SPE Colleague,

Because of your involvement in the mold manufacturing industry, and as an active member of the Society of Plastics Engineers, you are invited to receive a monthly subscription to *MoldMaking Technology* magazine - at absolutely no cost.

MoldMaking Technology is your only resource for content focused solely on the technologies, processes and strategies for engineering, building, maintaining and repairing molds.

Interested in becoming a subscriber and learning more? Give it a try. Click HERE to subscribe.

If you later feel that our magazine does not pertain to your role within the industry, you may unsubscribe at any time - no strings attached.

Thank you for your consideration. If you should have any questions about subscribing, please contact Sandra Rehkamp, Gardner Business Media database associate, at (513) 527-8800. I am also at your disposal should you have questions about the magazine's editorial coverage.

Kind regards,

Cynthia Kustush, Councilor
SPE Mold Technologies Division

Greg Osborn
SPE Mold Technologies Division
11245 Yarby Ln
Machesney Park, IL. 61115

Dear Educators:

The Mold Technologies Division of the Society of Plastics Engineers is looking for qualified vocational technical programs within High School or College settings that are interested in applying for one of three annual $2,500 grants for the 2017/2018 school year. Eligible programs will have curriculums that benefit and produce skilled employee candidates for careers in the plastics industry – particularly in mold manufacturing and related areas.

Would you like the SPE to help you make a difference at your school? We invite you to complete and submit the following grant request form and, if accepted, your program will benefit from extra funds to benefit your students' learning experience. Together, we can help many of your students work toward a brighter future in the plastics industry. The deadline for grant submissions is January 30, 2018.

For more information please e-mail me at gosborn@synventive.com today, or visit our website at www.4spe.org. I can also be reached at 815-520-1166.

Thank you and we look forward to hearing from you!

Sincerely,

Greg Osborn
SPE Mold Technologies Division
Education Chair 2015-2017

MOLD TECHNOLOGIES
DIVISION

SOCIETY OF PLASTICS ENGINEERS
FOUNDATION

6 BERKSHIRE BLVD., UNIT 306, BETHEL, CONNECTICUT 06801 USA
TELEPHONE: +1 203.775.0471 FAX: +1 203.775.8490 WWW.4SPE.ORG

The SPE Mold Technologies Division Grant Proposal Process

Grants from the SPE Mold Technologies Division are available every year, funds permitting, for programs/projects that will benefit the members of the Society of Plastics Engineers, the plastics industry, and/or the general public.

To apply for a grant, the following steps must be taken:

1. The enclosed grant application cover sheet must be completed and returned with your application.

2. The application must indicate a specific amount for a specific program/project and must be submitted prior to the purchase for your program.

3. A clear 1 to 2 page explanation about the objectives of the program must be included with the grant application cover sheet. You should include but not limited to items such as:

    - an overriding goal of the organization that the program will accomplish
    - the niche the program will occupy within the Society or the industry
    - the contribution the program will make to industry/members/general public
    - who will provide leadership for the program
    - financial need of the organization
    - sources of other income or in-kind gifts being utilized for the program
    - the future expectations of the program

5. Copies of receipts of purchase from the grant may be required and pictures of program participants for marketing purposes as a condition of grant received.

6. All grant applications must be typed or computer-generated.

7. Completed applications must be returned to the SPE Mold Technologies Division at the address listed below.

SPE Mold Technologies Division
Attn: Greg Osborn
11245 Yarby Ln
Machesney Park, IL 61115

SOCIETY OF PLASTICS ENGINEERS FOUNDATION

6 BERKSHIRE BLVD., UNIT 306, BETHEL, CONNECTICUT 06801 USA
TELEPHONE: +1 203.775.0471 FAX: +1 203.775.8490 WWW.4SPE.ORG

THE SPE MOLD TECHNOLOGIES DIVISION
GRANT APPLICATION COVER SHEET

Date of Application _____

Organization Name: _____

Contact Person: _____

Address: _____

_____

City: _____ State: _____ Zip: _____

Country: _____

Tel: _____ Fax: _____

E-Mail: _____

Program/Project Name: _____

Grant Request: $ _____

Date Funds Required: _____

Purpose of Grant (a one-sentence summary): _____

_____

_____

_____

Benefit of program/project to SPE, the plastics industry or the general public:

_____

_____

Be sure to include to include additional information in support of your application as outlined in item #3 of the Grant Proposal Process sheet.

SOCIETY OF PLASTICS ENGINEERS FOUNDATION

6 BERKSHIRE BLVD., UNIT 306, BETHEL, CONNECTICUT 06801 USA
TELEPHONE: +1 203.775.0471 FAX: +1 203.775.8490 WWW.4SPE.ORG

The SPE MTD Division Non-Support Statement

While all requests will be considered on a case-by-case basis, as a general policy, the SPE Mold Technologies Division grants program does not support:

- advertising for benefit or courtesy purposes
- capital or building campaigns
- debt reduction
- endowments or endowment campaigns
- for-profit entities
- fundraising drives or events
- general operating expenses, including salaries
- individuals
- loans
- memorials
- organizations that limit membership or services based on race, religion, color, creed, sex, age or national origin
- organizations that might in any way pose a conflict with The SPE's mission, goals, programs, projects, services, employees or trustees
- organizations whose chief purpose is to influence legislation or to participate or intervene in political campaigns on behalf or against any candidate for public office
- religious or sectarian programs for religious purposes
- scholarships other than our own program.

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 | 602-996-6499 | clarewrite@aol.com

Renee Nehls, Sponsorship Chair | 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

SPONSORSHIP INFO 2017-2018

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

Preferred File Format: Electronic (PDF, TIFF, BMP or PNG)