Injection Molding Division
Molding Views

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Chair's Message – SPE Injection Molding Division

Dear IMD Members and Plastics Professionals,

As we continue through an exciting and transitional year for the plastics community, I am pleased to share several important updates and milestones with our Injection Molding Division (IMD) members.

First, I want to recognize a major development for our broader industry: the merger between SPE and the Plastics Industry Association has now been finalized. This alignment strengthens our collective voice and enhances opportunities for collaboration, advocacy, and technical excellence across the plastics value chain.

Within Injection Molding and the Product Design & Development (PD3) Technical divisions, we are proud to celebrate the continued success of the IMPACT: Injection Molding Performance Awards Program, recognizing innovation and excellence among SPE, IMD and PD3 members. We also had a fantastic presence at ANTEC® 2026 in Pittsburgh, where strong technical programming was complemented by a highly successful IMD reception. Congratulations as well to Francesco Maciariello, recipient of the SPE IMD Best Paper Award at ANTEC® 2026, for his outstanding paper titled "Screw Design Effects on Degradation and Morphology in TPU and rTPU Foams." His work exemplifies the technical leadership our division strives to promote.

On a personal note, my final Board of Directors meeting as IMD Chair will take place at the Innovation and Emerging Plastics Technologies Conference at Penn State Behrend in Erie, Pennsylvania. It has been an honor to serve the division, and I am confident in the leadership ahead. Please join me in welcoming Davide Masato as the new SPE IMD Board of Directors Chair. I look forward to supporting him as he leads the division into its next chapter.

As we head into the summer months, I encourage everyone to take advantage of a well-deserved seasonal break while staying connected. Looking ahead, mark your calendars for a joint conference with the SPE Cleveland Section in October 2026, where we will continue to share knowledge and strengthen professional networks.

Stay engaged with IMD activities by following and interacting with our IMD LinkedIn page, where we regularly share updates, events, and technical highlights. Finally, we are always looking for passionate members to get involved—if you are interested in joining the IMD Board of Directors, or if you have comments, ideas, or suggestions, please feel free to contact any BOD member.

Thank you for your continued support of the SPE Injection Molding Division, and I wish you all a safe and enjoyable summer.

Respectfully,
Tom Giovannetti
Chair, SPE Injection Molding Division

IN THIS ISSUE:

MAY 2026

SPE WORKSHOP: DESIGN FOR RECYCLING: HOW PRODUCERS DESIGN PACKAGING FOR RECYCLERS

MAY 12, 2026 3:00 PM (ET) - THURSDAY, MAY 14, 2026 5:00 PM (ET)

ONLINE EVENT

This three-part Design for Recycling (DfR) workshop series is designed to help packaging producers, designers, and brand owners understand how packaging design decisions affect recyclability in real-world recycling systems. Led by Anthony Peyton, Founder and Director of PREP Design and creator of the PREP recyclability assessment platform, the workshops bridge the gap between packaging design intent and recycler outcomes.

For more information: https://www.4spe.org/spe-workshop-design-for-recycling-how-producers-design-packaging-for-recyclers/#gsc.tab=0

SPE WEBINAR: USING AI TO CUT COSTS AND MAINTAIN FLAMMABILITY COMPLIANCE IN PU FOAMS

MAY 19, 2026 11:00 AM (ET) - 12:00 PM (ET)

ONLINE EVENT

Reducing both raw materials and processing costs — such as curing times and temperatures — remains a key challenge across material classes. For polyurethane (PU) foams, this challenge is compounded by the need to maintain critical mechanical properties and meet stringent flammability regulations. In this webinar, we will walk through a case study demonstrating how AI can simultaneously optimize for cost, mechanical performance, and flame retardancy in PU foams, by integrating domain knowledge with AI-driven experimentation.

For more information: https://www.4spe.org/i4a/pages/index.cfm?pageID=9999#gsc.tab=0

SPE COURSE: US EPR LAWS SURROUNDING PLASTICS AND PACKAGING WASTE

MAY 20, 2026 2:00 PM (ET) - 3:00 PM (ET)

ONLINE EVENT

EPR laws are changing how plastics and packaging are designed, collected, and recycled in the U.S. This class reviews what the current EPR framework in the US is. We discuss how state-level EPR programs operate, including producer fees, recyclability criteria, and infrastructure investment. Discussion includes how these policies affect materials selection, product design, and supply chain decisions. Challenges associated with navigating the patchwork nature of the regulatory environment are also addressed.

For more information:
https://www.4spe.org/spe-course-us-epr-laws-surrounding-plastics-and-packaging-waste/

SPE WORKSHOP: INTRODUCTION TO THE FUNDAMENTALS OF THERMOSETTING RESIN CHEMISTRY

MAY 27, 2026
11:00 AM (ET) - FRIDAY, MAY 29, 2026 12:30 PM (ET))
ONLINE EVENT

Thermosets are a family of polymers that play a very important role in today's world; that is different from thermoplastic polymers. Thermosets undergo crosslinking reactions that form rigid polymers which have good mechanical, thermal, and chemical properties for many industrial applications. Thermosets start with mixtures of various monomers that can be formulated for different needs and be applied and processed in a variety of ways to create distinctively cured properties that cannot be achieved otherwise. This tutorial will introduce the audience to many different types of thermosets, their chemistry and properties. We will also cover their advantages, challenges, and applications.
For more information: https://www.4spe.org/spe-workshop-introduction-to-the-fundamentals-of-thermosetting-resin-chemistry/#gsc.tab=0

JUNE 2026

SPE COURSE: VISCOELASTICITY: IMPLICATIONS FOR PLASTICS

JUNE 16, 2026
11:00 AM (ET) - 12:00 PM (ET)
ONLINE EVENT

Plastics are viscoelastic materials, meaning that they exhibit both viscous and elastic characteristics when undergoing deformation. This is due to their unique molecular structure. The polymer molecules consist of long chains with high molecular weight. Those individual polymer chains are and tangled into each other, but are mobile and can slide past each other because they do not share chemical bonds with the other chains.

For more information: https://www.4spe.org/spe-course-viscoelasticity-implications-for-plastics/#gsc.tab=0

JULY 2026

PLASTICS SUSTAINABILITY EXECUTIVE FORUM: ADDRESSING A GROWING CONCERN OF MICROPLASTICS AND MATERIAL STEWARDSHIP

JULY 14, 2026
10:00 AM (ET) - WEDNESDAY, JULY 15, 2026 4:10 PM (ET)
HUSKY FACILITY AT 500 QUEEN ST S, BOLTON, ON L7E 5S5, CANADA

Addressing a Growing Concern of Microplastics & Material Stewardship. Stay ahead of emerging regulations, research, and mitigation strategies related to microplastics, with a focus on risk management and product stewardship.

For more information: https://www.plasticsef.org/psef-2-2026/p/1

Corporate College Conference Center • 4400 Richmond Rd. • Warrensville Heights, OH 44128

The **Injection Molding Innovation Summit** is designed for professionals who want practical ideas they can take back to their facilities and apply quickly. Hosted October 22, 2026, at the Corporate College Conference Center in Cleveland, Ohio, the Summit brings together a focused audience of molders, material suppliers, technology providers, and OEMs who are advancing injection molding through innovation, problem-solving, and best practices.

What you will gain:

High-value networking with the right peers

- Connect with engineers, technical leaders, decision-makers, and innovators from across the injection molding value chain and share practical learnings and real results.
- Real-world takeaways you can use right away. Learn what is next across timely topics such as AI in injection molding, equipment and tooling, materials, sustainability, national security, workforce training, and economic outlook and market trends.

Keynote Speaker:

Lynzie Nebel is an Upstream Hardware Engineer at Cytiva headquartered in Marlborough, MA. She has spent nearly two decades working in the plastics industry at various custom injection molding facilities, making everything from micro medical devices to heavy-equipment radiator tanks. She has been an active member of the Society of Plastics Engineers since 2006, serving in numerous leadership roles.

She is currently a member of the SPE Executive Committee and is the 2026 SPE Chair. Lynzie also co-hosts the award-winning podcast, PlastChicks.

Sponsors

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INJECTION MOLDING INNOVATION SUMMIT

OCTOBER 22, 2026 • CLEVELAND, OH

Hosted by the SPE Injection Molding Division & SPE Cleveland Section

SPONSOR INFORMATION

Elevated Brand Visibility

Put your brand in front of a highly targeted audience of molders, material suppliers, technology providers, and OEMs—all focused on advancing injection molding.

High-Value Networking

Connect face-to-face with engineers, technical leaders, decision-makers, and innovators from across the injection molding value chain.

Showcase Your Expertise

Position your company as a trusted technical authority by aligning with a summit dedicated to innovation, problem-solving, and best practices in injection molding.

Talent Pipeline & Recruitment

Meet emerging and experienced professionals who are passionate about injection molding—expanding your pool of potential hires in one place.

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- 2 Complimentary Registrations

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Contact: Cory Nicely
cory.nicely@thermofisher.com

Recap

ANTEC® 2026, which took place March 9-12 at the Wyndham Grand Pittsburgh Downtown in Pittsburgh, PA, brought the global plastics community together for two and a half days of technical exchange, collaboration, and forward-looking discussion on the technologies shaping the plastics industry. Hosted by SPE, a division of PLASTICS, the event welcomed more than 450 attendees from around the world, including scientists, engineers, academics, and industry leaders.

The conference featured 200+ technical speakers, plenary presentations, and eight concurrent technical tracks covering polymer science, materials, processing, sustainability, bioplastics, product design, molding technologies, medical plastics, packaging, and infrastructure applications. Across sessions, speakers explored emerging advances in AI-enabled processing, sustainability, advanced recycling, additive manufacturing, polymer analysis, and materials performance, with an emphasis on solving real-world engineering and manufacturing challenges.

Tuesday's opening session began with an introduction by Lynzie Nebel, SPE's Chair, and remarks from Matt Seaholm, CEO of PLASTICS, who discussed the recently announced collaboration between PLASTICS and SPE and the opportunity to expand educational access and technical engagement across the global plastics community.

Making Connections

Monday, March 9

ANTEC® Kick-off Reception brought attendees together to mingle, reconnect with old friends, and spark new connections. It was an energy-filled evening with exciting conversations!

Tuesday, March 10

Everyone headed over to Shorty's Pins X Pints for a laid-back evening filled with great food and drinks, and plenty of facetime!

Wednesday, March 11

SPE's Awards Luncheon was an inspiring celebration recognizing the innovators and rising stars of SPE. Everyone honored the achievements of SPE's Fellows of the Society, Honored Service Members, SPE Foundation Ambassador Giving Society, President's Cup recipients, and standout Student Poster winners. Awards photos here.

Later Wednesday, everyone made their way over to an incredible reception hosted by the SPE Injection Molding Division. During the reception, IMPACT Awards winners were announced and honored. Whether a seasoned professional or new to the field, this reception was the perfect setting to build connections and celebrate the achievements of injection molding in the plastics community.

Thursday, March 12: Morning sessions.

Education and Knowledge Sharing

Five plenary presentations, as well as a symposium honoring Ica Manas-Zloczower, Professor, Case School of Engineering, highlighted major trends looking toward the industry's future—from sustainable materials used across all market sectors, packaging regulations, dynamic chemistries used for recycling, and global plastics legislation. Forward-looking plenaries also examined how materials engineering, sustainability, and artificial intelligence will influence the next generation of plastics innovation.

In addition, ANTEC® featured technical speakers covering polymer science, materials, processing, sustainability, bioplastics, product design, molding technologies, medical plastics, packaging, and infrastructure applications

The inaugural IMPACT: Injection Molding Performance Awards program honored the most groundbreaking plastic parts developed through injection molding, spotlighting achievements on both a national and international scale. Winning entries were displayed and judged during ANTEC® 2026, showcasing cutting-edge work in design, manufacturing, and applications that are shaping the future of injection molding. Winners were announced during the Injection Molding Technical Division's reception at ANTEC®.

Entries were plastic parts in active commercial production and student concepts were welcomed in the prototype category. Parts must have been introduced within the past 24 months. And all entries needed to utilize injection molding processes.

Each submission judging was based on:

- Design Good design practice, including no flash, no sink marks, no warpage, etc.
- Customer Needs Meets customer business expectations with good market performance
- Innovation Creative in problem solving, use of new materials, cutting-edge applications and manufacturing techniques
- Human Centered Human factors and benefits; improves quality of life
- Aesthetics Aesthetic in form, function, and color
- Sustainability Reduces negative impact on the environment, health, and society

Best of Show

ECO Seat

The SIMOLDES Eco Seat is a next-generation circular seating system developed by SIMOLDES, combining structural innovation, advanced injection molding and end-of-life circularity in a lightweight, modular architecture. Its core is a single-piece structural shell in PP-GF, injection-molded using Water Injection Technology (WIT) to generate internal tubular channels that increase bending stiffness and torsional rigidity with minimal mass. This design achieves a ~15% weight reduction compared with a traditional seat structure while maintaining visible-surface integrity. Comfort and load support are provided by a mechanical textile suspension in partially recycled polyester, fully recyclable and mounted through tool-free mechanical anchoring.

Automotive Excellence

ECO Wishbone

The Eco Wishbone is an innovative hybrid suspension component designed for urban electric vehicles (L7e category). This part combines high-performance recycled thermoplastic over-molded onto a metal insert, using advanced Water-Assisted Injection Molding Technology (WIT) to achieve superior mechanical properties and improved sustainability goals. The design focuses on lightweight construction, cost efficiency, and environmental responsibility. By replacing traditional full-metal solutions with a hybrid structure, the Eco Wishbone reduces overall weight, contributing to lower energy consumption and extended range for electric vehicles.

Consumer Excellence

YETI Rambler Insulated Food Jar

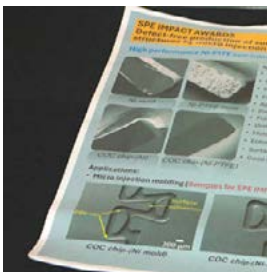
The YETI Rambler Insulated Food Jars are a rugged, elegant, and reliable solution to keeping meals hot or cold on the go. Available in 8oz, 16oz, and 24oz capacities—each jar delivers exceptional thermal performance through double-wall vacuum insulation. The focus of this submission is the YETI MagVent™ Lid, a 100% leakproof, two-piece system that vents steam as it opens and disassembles easily for thorough cleaning. Other food jars may require separate actions to open, are hard to clean, or are not 100% leakproof. The YETI Food Jar lid accomplishes all this in just two components. Toss the jar into your backpack without a second thought – no mess, just food that stays at the perfect temperature.

Commercial/Industrial Excellence

Blue Ribbon Bread Crate

At the heart of this design is a commitment to efficiency, hygiene, and sustainability. Tasked by Blue Ribbon, one of South Africa's leading bread brands, we reimagined their traditional plastic bread crate to address key challenges in bread distribution and environmental impact. The innovative Blue Ribbon crate is more than just a container; it's a game-changer in bread logistics. Made from poly recyclable plastic, it boasts a design that prioritizes strength, airflow, and sustainability. Its unique hexagonal ventilated base pattern enhances durability, reducing the risk of damage while keeping the bread fresh during storage and transit. The crate's efficient stackability and nesting ability optimize truck space, improving delivery efficiency and reducing waste.

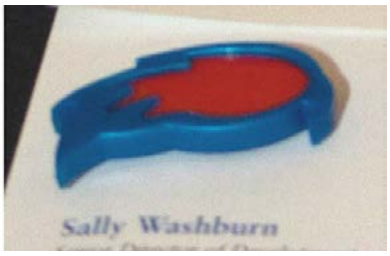
Graduate Student Concept Award



Defect-free Surface Micro/Nano Structures

The Ni-PTFE nanocomposite mold is a cutting-edge solution designed for large-scale defect-free production of micro/nano-manufactured polymeric components, such as microfluidic devices. By incorporating lubricating PTFE nano-fillers into a nickel (Ni) matrix via electrodeposition, this mold addresses the key challenges of high adhesion, high friction, and limited tool lifetime encountered during micro injection molding and nanoimprinting.

Undergraduate Student Concept Award



River Hawk Shoe Charm

The River Hawk Shoe Charm is a decorative accessory designed to fit shoes with perforations, such as Crocs. It was designed and manufactured as part of the Mold Engineering class at UMass Lowell, which is the ABET culminating design experience for the plastics engineering curriculum. The project, called "Art to Part" allows students to imagine a product on paper, model it in CAD, create tooling splits and run flow simulations, machine the mold insert and develop an injection molding process for the part. We chose a part that would represent school spirit for the UMass Lowell River Hawks and serves a dual purpose: to boost school pride and to promote Plastics Engineering as a field of study.

70% Faster Setup with OSPHIM: AI Transforming Injection Molding

By Dr. Louisa Desel

Reducing setup times by up to 70% while stabilizing quality is no longer a future vision—it is already achievable in injection molding with AI-driven systems like OSPHIM. At a time when manufacturers are under pressure to increase output, reduce costs, and operate more sustainably, the ability to unlock hidden efficiency within existing production assets is becoming a decisive competitive factor.

Injection molding, one of the most widely used yet technically demanding manufacturing processes, sits at the center of this transformation. A wide range of interacting process parameters—from melt temperature and injection speed to tool design and ambient conditions—directly impacts part quality, cycle time, and energy consumption. Traditionally, these parameters have been optimized through operator experience and iterative trial-and-error. While effective in stable environments, this approach struggles to keep pace with today's complexity and variability.

Artificial intelligence (AI), and specifically data-driven platforms like OSPHIM, are changing that. By turning production data into actionable insights, OSPHIM enables a new level of process transparency, control, and performance.

From Experience-Based to Data-Driven Process Control

A central challenge in injection molding is managing the complex, nonlinear relationships between process parameters and product quality. Even small deviations in temperature or pressure profiles can lead to measurable changes in part dimensions or surface characteristics. These relationships are often too complex to manage manually—especially in dynamic production environments.

OSPHIM Platform – Real-Time Process Monitoring

OSPHIM addresses this challenge by creating a unified data layer across the entire production cell. The platform continuously collects and structures data from machines, peripher-

als, and quality systems via standard industrial interfaces such as OPC UA, Euromap, or TCP/IP. Instead of fragmented data sources—spreadsheets, handwritten logs, or isolated machine controls—manufacturers gain a consistent, real-time view of their processes.

On this foundation, AI algorithms detect patterns, uncover hidden correlations, and identify optimization opportunities that would otherwise remain invisible. The system generates clear, data-driven recommendations for process parameters such as tool temperature, injection speed, and holding pressure profiles.

OSPHIM Setup

Depending on the level of integration, these optimized parameters can either be implemented by the operator or automatically applied within the process. This flexibility allows manufacturers to move at their own pace—from decision support to fully automated, closed-loop optimization.

The Power of Small Improvements

One of the most compelling aspects of AI-supported optimization is the disproportionate impact of seemingly minor adjustments. A reduction in cycle time of less than one second can translate into substantial productivity gains over the course of a year.

For example, optimizing a process from 12.3 seconds to 11.2 seconds per cycle results in an improvement of nearly 9%. In high-volume production, this can free up hundreds of machine hours annually—equivalent to several additional production days without investing in new equipment. At the same time, energy consumption per part decreases, directly reducing both costs and CO_2 emissions.

In many cases, these improvements translate directly into measurable financial impact. Increased output, reduced scrap, and lower energy usage can generate substantial ROI within a short timeframe—making AI-driven optimization not just a technical upgrade, but a strategic investment.

OSPHIM systematically identifies such optimization potentials by analyzing real production data instead of relying on assumptions. The result is a continuous improvement process that enhances efficiency while stabilizing quality.

From Data Platform to Learning System

OSPHIM does not just optimize processes—it continuously learns from them. Every production cycle, every deviation, and every disturbance contributes to the system's growing knowledge base. By analyzing process drifts, material variations, and external influences, OSPHIM identifies root causes and recommends targeted countermeasures.

This creates a closed feedback loop that transforms production into a self-improving system. Over time, the AI models become more accurate, enabling faster responses to anomalies and proactive process stabilization. Instead of reacting to problems, the system begins to anticipate them.

In serial production, this evolution leads to a new level of autonomy. Once sufficient data has been collected and validated, OSPHIM can perform continuous optimization within defined process limits—improving quality and efficiency without constant manual intervention.

Accelerated Setup Through Automated Experimentation

Process setup is traditionally one of the most time-consuming steps in injection molding. OSPHIM actively drives a new approach by executing automated trial sequences directly on the machine and tool.

Instead of manual parameter adjustments, the system systematically varies key process settings, evaluates their impact, and calculates optimal machine parameters based on real production data. This structured, data-driven approach eliminates guesswork and significantly accelerates setup.

As a result, setup times can be reduced by more than 70%. What previously required hours—or even days—can now be achieved in a fraction of the time, with higher precision and full reproducibility.

Turning Data into a Strategic Asset

Many plastics processors already possess vast amounts of data. However, these data are often fragmented, inconsistent, and therefore underutilized. OSPHIM addresses this issue by structuring and integrating data across machines, tools, and peripherals.

This holistic perspective enables companies to:

- Identify stable process windows
- Compare processes across machines and locations
- Detect anomalies in real time
- Capture and standardize expert knowledge

Especially for small and medium-sized enterprises (SMEs), this represents a significant opportunity. Instead of relying solely on individual expertise—which may be lost due to workforce changes—process knowledge becomes digitally available and continuously expandable.

AI Without Barriers: Practical Implementation

A key success factor for the adoption of AI in manufacturing is usability. OSPHIM is designed as a no-code platform, requiring no programming skills. The implementation follows a structured yet straightforward approach:

1. Check data sources – Ensure machines and peripherals are connected via standard interfaces
2. Set up the system – Create accounts and map machines, tools, and equipment
3. Activate optimization – Start automated data acquisition and apply AI-driven recommendations

Once the system is connected and operational, companies can benefit almost immediately: In many cases, the system can be installed and fully operational within 30 minutes, enabling immediate use of AI-driven features—significantly faster than conventional approaches that require extensive setup and manual tuning.

This simplicity lowers entry barriers and accelerates time-to-value. Companies can start with basic data c ollection and gradually expand toward advanced AI-supported optimization.

Enhancing Process Robustness in a Volatile Environment

One of the most critical advantages of AI-driven systems like OSPHIM is their ability to handle variability. Fluctuating material qualities—especially when using recyclates—pose a major challenge for traditional process control.

By continuously analyzing production data, OSPHIM identifies correlations between material batches, machine behavior, and product quality. This enables the system to recommend parameter adjustments that compensate for variations and maintain consistent output.

As a result, processes become more robust, reproducible, and less dependent on external fluctuations. This resilience is particularly valuable in times of supply chain uncertainty and increasing sustainability requirements.

Conclusion: A Data-Driven Future for Injection Molding

AI is transforming injection molding from a reactive process into a proactive, self-optimizing system. Platforms like OSPHIM enable manufacturers to unlock hidden efficiency, stabilize quality, and make better use of existing resources.

The benefits are clear: shorter setup times, reduced scrap, lower energy consumption, and increased output—often without additional capital investment.

As manufacturers face growing pressure to do more with less, AI-driven systems are quickly moving from optional tools to operational necessities. The shift toward data-driven, self-optimizing production is already underway—and those who adopt early will set the benchmark for the next generation of injection molding.

OSPHIM – AI for Injection Molding

OSPHIM enables data-driven, AI-supported optimization of injection molding processes for higher efficiency, quality, and resilience.

Contact: Dr. Louisa Desel, CEO/Managing Director
louisa.desel@osphim.com
www.osphim.com

Progressive Introduces New Mold Cylinder Product Line

Progressive Components (Wauconda, IL) announces the release of its Mold Cylinder product line, offering convenience for mold builders and performance advantages for molders.

Engineered as a direct replacement for existing hydraulic cylinders, Progressive's Mold Cylinders are fully compatible with industry standards while delivering measurable performance improvements — all at a competitive price and delivery.

Key advantages for mold designers, builders, and molders include:

• Black-Nitrided Graphitic Steel Glands: Competing products commonly use bronze glands, which are prone to fluid bypass and leakage under cyclic loading, but Progressive's glands are precision-machined from graphitic steel and treated with a Black Nitride surface treatment process. This increases surface hardness, improves wear resistance, and provides better sealing performance over the life of the cylinder.

• Re-Engineered Internals: Improved seals and increased contact surface area throughout the internal seals result in higher performance and a longer service life.

• Installer-Friendly Design: Six wrench flats on the rod — versus the two found on others' products — allow for faster, easier installation with a standard wrench.

• Full Industry-Standard Compatibility: Unlike imported cylinders, Progressive's Mold Cylinders conform fully to NFPA industry standards — making them immediately familiar to designers, mold builders, and molders — while still delivering enhanced performance.

For more information about Progressive's new Mold Cylinders or its full line of mold components, visit procomps.com, email tech@procomps.com, or call 1-800-269-6653.

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Extended SolidWorks Native Library: Greater Efficiency and Flexibility in Design

The extended SolidWorks native library is immediately available and allows designers efficient, flexible and future-proof product development in tool and mould-making. With a much larger variety of components and intelligent and practical functions, the database supports both prototype development and the design of mass-produced components – directly in SolidWorks.

Considerable increase in the diversity of components

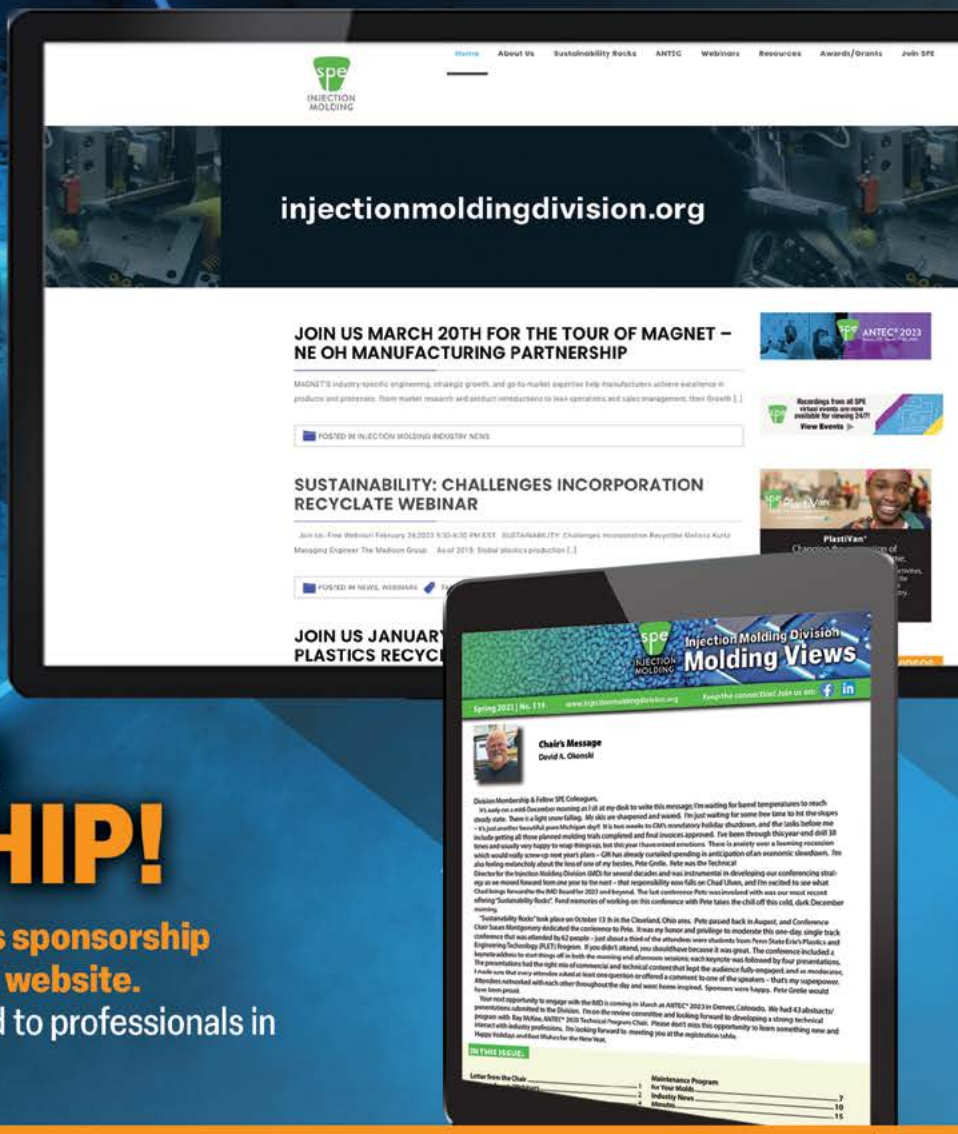
The native library has been supplemented with numerous new components. This extension of the product portfolio in the database covers, among other things, guide elements, ejectors, components for demoulding and casting, measuring technology, cooling systems and general mould components. Users thus benefit from an even greater selection of immediately usable CAD components for a wide variety of applications.

Integrated take-off head for optimised designs

Many of the new and modified components have integrated, optimised take-off heads. These reduce the post-finishing work, increase the performance in the CAD process and simplify the practical implementation in mould-making. The take-off heads are available either in the version “minimum material abrasion“ or “mid-tolerance“, and thus allow a flexible deign.

With this comprehensive update of the SolidWorks native library, HASCO is offering a high-performance basis for simple and efficient design processes and maximum design freedom in mould-making.

https://www.hasco.com/



spe
INJECTION MOLDING

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