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Injection Molding Division
Molding Views
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Chair's Message David Kusuma, Ph.D.

The recent ANTEC conference in Philadelphia was the highlight of the Injection Molding Division's (IMD's) work during this board term. ANTEC was a confluence of new research and advanced thinking, highlighting the latest state-of-the-art in plastics technologies. For those of you who missed the event, the SPE headquarters proudly disclosed that ANTEC attendance continues to show strength, and is slowly on its way back towards pre-pandemic numbers.

For the IMD board, the months of constant meetings and planning for our presence at ANTEC had finally reached its intended outcome. Our TPC, Davide Masato, and his review team selected 17 papers on various topics of injection molding and related technologies for presentation at the conference, and coordinated the evaluation and selection of IMD's Best Paper Award. This was awarded to Pia Wagner of IKV for her paper on Segregation of immiscible polymers and consequences for PCR processing. I want to thank Davide, along with Tom Giovannetti, Chad Ulven, Joe Lawrence, and Jeremy Dworshak for their commitment and great effort to lead this very successful initiative!

This year's ANTEC also saw the return of our IMD ANTEC networking reception, and on behalf of the IMD board, I want to thank Autodesk for sponsoring and giving us the ability to host such an event. In the past, the ANTEC reception was considered to be an important investment for IMD, as an outreach to our division membership and to the greater SPE community. I want to thank Angela Cengarle, our Communication Chair, for strengthening our online presence and widely promoting ANTEC and the reception. It was extremely well attended with almost 200 registrants, especially considering it was held on the last evening of the conference.

Unfortunately, our newest initiative, the "Injection Molding IMPACT Performance Awards" parts competition had to be postponed, and is now planned for the Fall of 2025. We had hoped to launch a first of its kind exhibit at the ANTEC, showcasing the winning designs and highlighting the latest in injection molding innovation. The decision to postpone the awards competition was a difficult one, but necessary due to the low number of entries. We received feedback that the available time given, was too short to react to the call for participation. I hope we can do better in the Fall, and I want to thank the SPE headquarters for their incredible partnership and support in embracing this new innovation parts competition. We look forward to continue our work with SPE HQ as we move into the Fall.

IN THIS ISSUE:

Aligned with the ANTEC, we also held our third IMD board meeting this term, on the last day of the conference. Here is a quick summary of the most important meeting topics:

1. **IMD Election.** The injection molding board election process is currently underway. All IMD members should have received an email with instructions to cast your votes by April 04, 2025.

2. **Board Leadership.** We are actively recruiting for the roles of IMD Treasurer (to begin in 2026) and IMD Sponsor Chair (to begin immediately). We invite you to come forward and declare your interest if you would like to participate in leading the future of our IMD, and chairing these important functions.

3. **Membership.** Member Development will aim to develop targeted events which are most important to our members and Division, with a special focus on increasing corporate members.

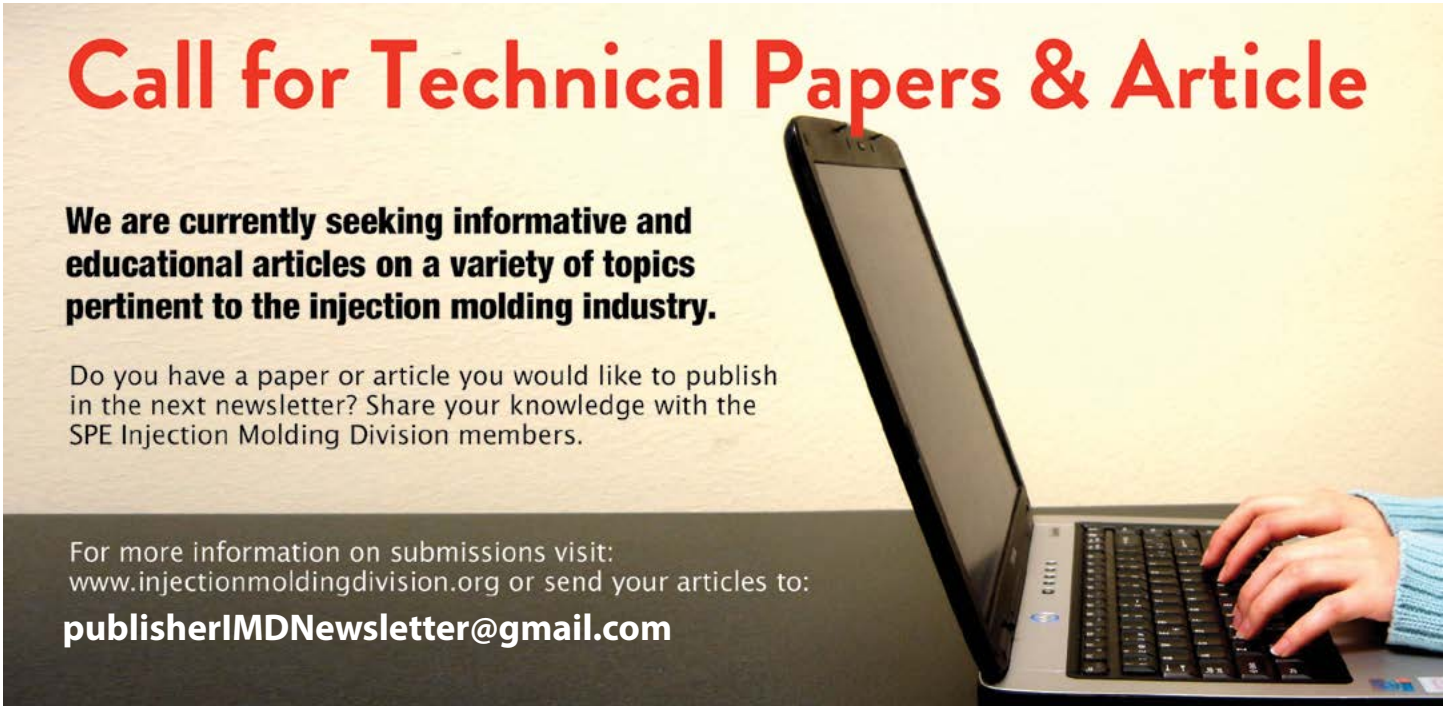
4. **Role of the Technical Director.** We are seeking input to strengthen the role of our Technical Director. The proposal would be to adjust our bylaws to bring the work of our education committee under the leadership of the Technical Director. This collaborative team would then be responsible for professional development including key learning events such as the "Week of Injection Molding," as well as promoting research and publications for technical papers submitted through the IMD.

5. **Key Performance Indicators.** To meet the long-term objectives of our mission, KPIs have been launched to measure our progress towards the improvement of our vital competencies over the coming years. This includes setting targets for board member attendance, financials including sponsorships, member/division growth, wider communications reach, developing (internal/external) partnerships, and ANTEC programs.

6. **Committees.** All board members will be encouraged to serve on at least one active committee and contribute to our mission and KPIs.

7. **Next Board Meeting and Event:** The final board meeting of this term is scheduled for June 10, 2025, at Penn State Behrend in Erie PA, followed by the Penn State Behrend Innovation & Emerging Plastics Tech Conference on June 11-12, 2025. All IMD and SPE members are invited to register and attend the conference.

David Kusuma, Ph.D.
Chair, SPE Injection Molding Division



MAY 2025

UV EFFECTS ON PLASTIC MATERIALS

MAY 14, 2025
11:00 AM TO 12:00 PM EDT
ONLINE EVENT

If you work with plastic components that include outdoor exposure, then this course will provide you with information that will enhance your understanding of the interaction between UV radiation-based weathering and plastic resins, and help prevent premature failure. Topics covered during this session include an introduction to UV degradation and an explanation of the failure mechanism characteristic of UV radiation/plastic interaction. Case studies associated with UV radiation exposure will be presented.
For more information: https://www.4spe.org/i4a/pages/index.cfm?pageID=7136

WHERE 3D PRINTING MEETS THE METAL SECTOR

MAY 22, 2025
9:00 AM EDT TO- 1:30 PM EDT

ADDITIV Metals World is an international virtual event focusing on the role and influence of metals in additive manufacturing.
The goal? Half a day dedicated to panel discussions, workshops and networking to bring together the main players working in metal 3D printing.
For more information: https://www.additiv.events/metals-world

HARNESSING ARTIFICIAL INTELLIGENCE IN POLYMER PROCESSING: FUNDAMENTALS AND PRACTICAL APPLICATIONS WITH A FOCUS ON INJECTION MOLDING

MAY 27, 28 AND 30, 2025
11:00 AM TO 1:00 PM EDT
ONLINE EVENT

This immersive, three-day, six-hour hands-on workshop is designed to equip participants with the essential knowledge and practical tools needed to successfully implement artificial intelligence (AI) in polymer processing, with a strong focus on injection molding.
For more information: https://www.4spe.org/i4a/pages/index.cfm?pageID=9431

JUNE 2025

SPE WORKSHOP: INTRODUCTION TO PLASTIC DECORATING TECHNOLOGIES

JUNE 12, 2025 10:00 AM EDT - FRIDAY, JUNE 13, 2025 1:00 PM EDT)
ONLINE EVENT

Plastic Decorating and Coating can be a complex and confusing set of often unrelated technologies. As such, plastic decorating is much more involved than just achieving a desired appearance and choices can have significant impact on business outcomes.
For more information: https://www.4spe.org/i4a/pages/index.cfm?pageID=9191

A Successful ANTEC 2025 for the Injection Molding Division

By Davide Masato, PhD – ANTEC TPC

ANTEC® 2025 in Philadelphia was a great success for the Injection Molding Division (IMD), with a strong technical program and high engagement throughout the event. We hosted 17 presentations covering a wide range of timely topics, including composites, AI-driven innovations, simulation, and process optimization.

Attendance was consistently high across all sessions, with nearly every seminar reaching full capacity. The quality of the talks and the level of discussion showed that injection molding continues to be a vibrant and evolving field.

We'd like to extend a big thank you to our session moderators—Tom Giovannetti (IMD Chair-elect), Chad Ulven (IMD Technical Director), and Joseph Lawrence (IMD Board Member and Past Chair)—for their time and commitment throughout the week. Special thanks as well to Angela Cengarle (IMD Communications/Marketing) and Jeremy Dworshak (IMD Past Chair) for their support with paper reviews, online promotion, and event planning. The success of the program was truly a team effort.

Congratulations to Pia Wagner (IKV Aachen, Germany), who received the Best Presentation Award for her talk titled "Segregation of immiscible polymers during injection molding and the consequences for PCR processing." Her research sparked great conversation and exemplified the depth of insight that ANTEC continues to promote.

Networking Reception

One of the standout moments of the week was the joint networking reception hosted by the Injection Molding Division, and generously sponsored by Autodesk and the Mold Technologies Division. The reception attracted an impressive 200 attendees, making it one of the largest and most well-attended social events at the conference. It was a fantastic opportunity for members, speakers, students, and industry professionals to connect in a relaxed, informal setting and continue the technical conversations from the day.

Looking Ahead

We're excited to share that we'll be bringing the event back for ANTEC® 2026, and we are actively seeking sponsors to support and expand this valuable networking tradition. If your organization is interested in getting involved, please reach out via email at Davide_Masato@uml.edu.

As we plan for ANTEC® 2026, we would love your input and involvement. Whether it's helping shape next year's program, joining as a speaker, or promoting student engagement, your participation strengthens our community.

We're also reviewing ways to improve the experience—if you have suggestions, please share!

Thanks again to everyone who contributed to this year's success. Let's keep the momentum going!

Moldex3D 2025 Molding Intelligence: Embracing the AI Revolution in Injection Molding

By Tom Wood, ES Plastic Products, LLC

AI technology is rapidly transforming global industries and becoming a key force driving upgrades and progress. In the field of smart manufacturing, AI enhances efficiency and effectiveness across various stages, from R&D design, process optimization, quality monitoring, to supply chain management. As an innovative leader in the plastic molding field, CoreTech Systems focuses on two major technologies: "Industry 4.0 Smart Manufacturing and Digital Twin" and "Cloud Big Data and AI-Driven Simulation." They have launched the plastic molding smart Q&A robot—MoldiBot—on the Moldiverse cloud service platform, providing round-the-clock technical support. Additionally, CoreTech Systems assists customers in implementing Automation, Optimization, and Intelligence efficiency enhancement solutions, accelerating mold development efficiency. Furthermore, CoreTech Systems has collaborated with the Industrial Technology Research Institute's Mechanical and Systems Research Institute to develop Generative AI mold cooling channel generation technology, helping customers stay ahead in the AI transformation and embrace future opportunities and challenges.

Introduction

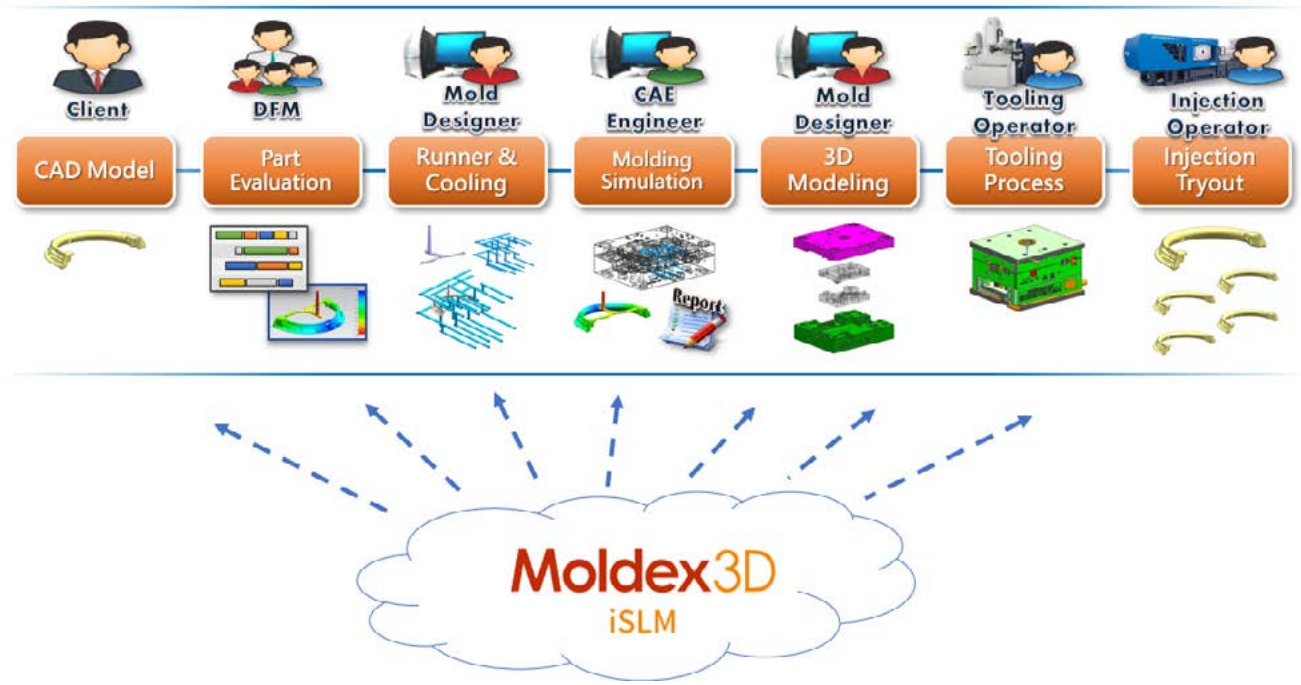
AI technology has become the core driving force of Industry 4.0, propelling the manufacturing industry towards greater automation and intelligence. According to analysis by the Boston Consulting Group, AI applications can significantly help the manufacturing industry reduce costs and increase efficiency, with average production efficiency improving by 15% to 20%, while operational costs can be reduced by up to 30%. The year 2025 will not only be a key year for the widespread adoption of AI technology but also an important starting point for reshaping industrial patterns and creating an intelligent future. In this global technological wave, the ability to seize the opportunities presented by AI will determine the competitive advantage and development direction of businesses and societies for decades to come.

Moldex3D, as a global leader in mold flow analysis solutions, has a business presence across five continents, including the Americas, Europe, and Asia. The total number of users has exceeded 5,500. It's technology is widely applied in several high-end industries, such as electric vehicle manufacturing, semiconductor packaging, consumer electronics, medical equipment, and optical components. This article will delve into the development of Moldex3D in two core technological areas: "Industry 4.0 Smart Manufacturing and Digital Twins" and "Cloud Big Data and AI-Driven simulation."

Creating an Automation, Optimization, and Intelligence Efficient Enhancement Solution for the Plastics Manufacturing Industry to Help Enterprises Reduce Costs and Increase Efficiency

CoreTech Systems integrates its Moldiverse cloud service platform, Moldex3D mold flow analysis, and iSLM data management platform to create an Automation, Optimization, and Intelligence efficiency enhancement solution for the plastics manufacturing industry. This solution helps enterprises achieve a closed-loop management system for the entire mold development process, introducing automated analysis and forecasting

(Auto Launch), Molding Window Advisor, and AI Discovery data science analysis functions (Gate Design Discovery, Mold Design Discovery, Process Discovery). This helps enterprises improve mold development efficiency and product quality.

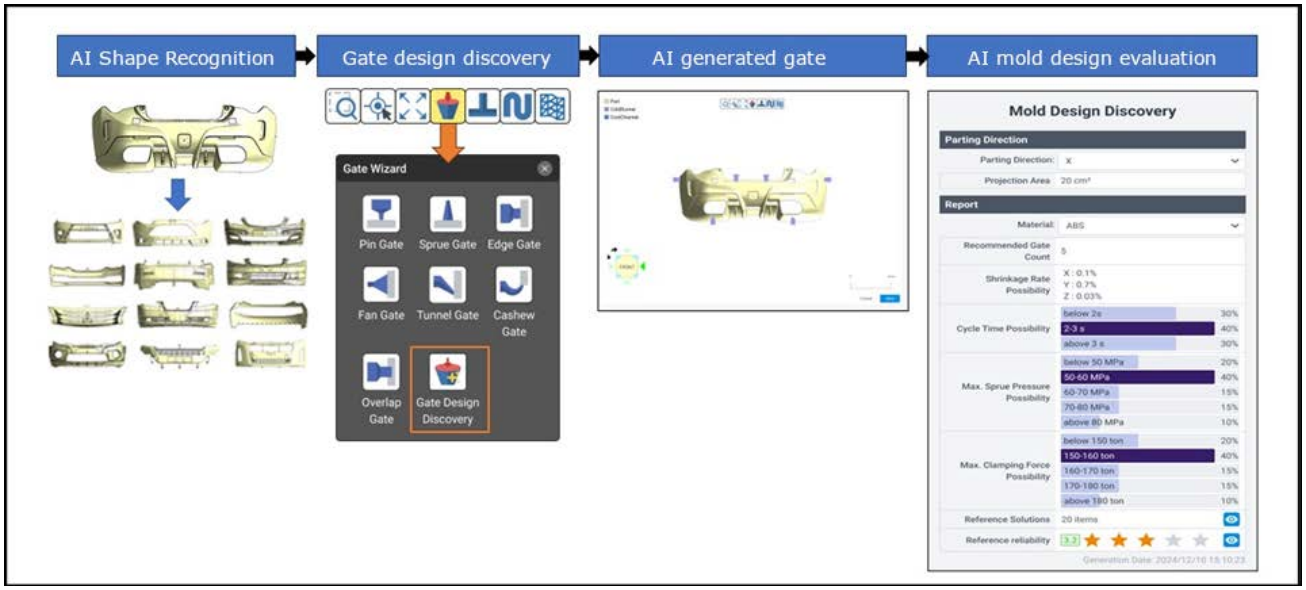


The CoreTech Systems Automation, Optimization, and Intelligence efficiency enhancement solution helps enterprises improve mold development efficiency and product quality.

In the process of digital transformation in the manufacturing industry, a large amount of data is generated. How to structure, store, and utilize this data has become a key to improving efficiency and competitiveness. Moldex3D iSLM (Intelligent Solution Lifecycle Management) is a data management platform for mold design and mold trial processes. It can be used to manage the development processes and data for product design, mold design, and molding trial, ensuring data consistency and traceability through standardized data formats and classification systems. The data is visual, allowing the team to work more efficiently and laying a solid foundation for the development of AI applications.

In the mold development process, during the design concept and specification confirmation stages, developers can simply upload the new product CAD files provided by the customer to the iSLM Database. The system will automatically perform shape recognition using AI and finding similar cases from the database to serve as references for the new product mold design. Gate Design Discovery uses intelligent technology to generate AI-driven gate designs, addressing the highly repetitive and inefficient issues in the gate design process while significantly improving design accuracy and efficiency. Through AI shape recognition, the system can intelligently apply successful past cases to new design projects, greatly shortening the design time. The automatically generated gate designs are not only accurate but can also be further adjusted according to requirements, making it easier for designers to complete complex designs and simplifying and accelerating the entire gate design process.

Mold Design Discovery uses intelligent technology for AI mold design evaluation, addressing critical issues in the mold design process and enhancing decision-making efficiency. By utilizing AI shape recognition, users only need to upload CAD files to quickly estimate key information, such as the number of gates, machine selection, injection pressure, and clamping force distribution probabilities for new plastic part designs. These data can be used for product cost estimation and quote forecasting, helping mold developers make more informed business decisions at an early stage. The system also has a material screening feature, which filters project data based on different materials, further improving the accuracy of the evaluation results.

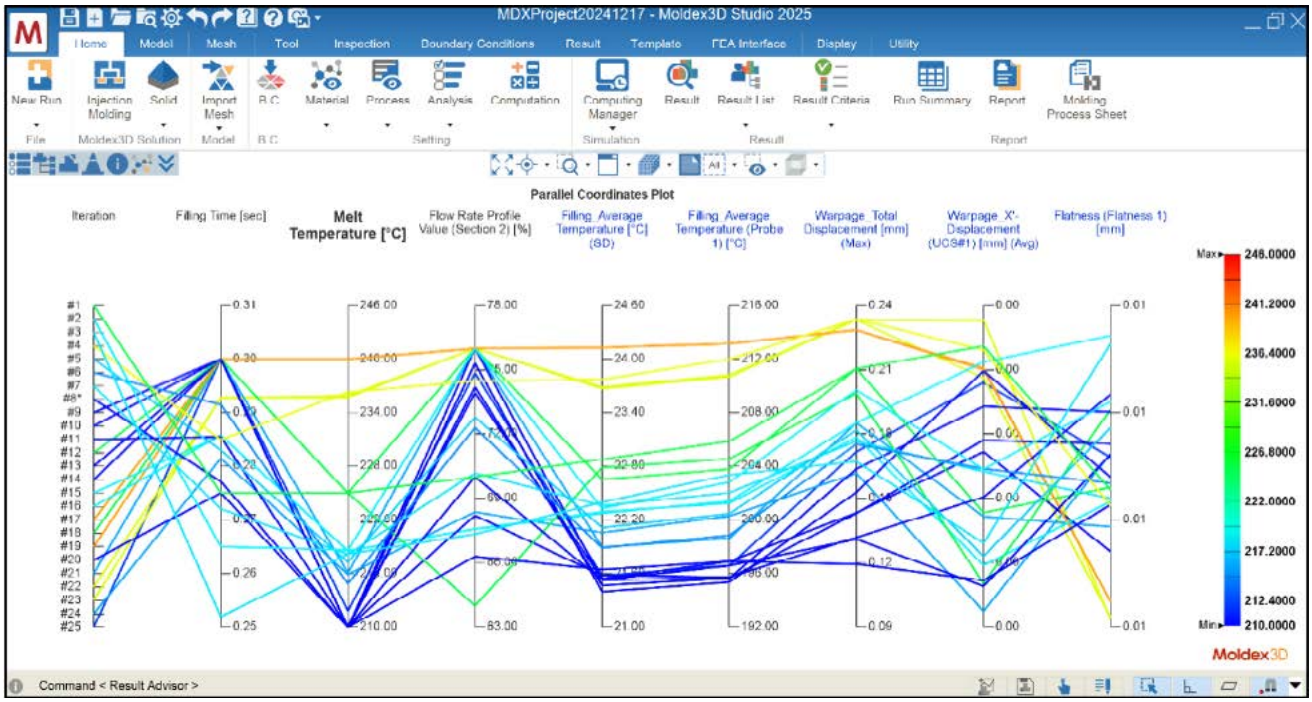


iSLM AI Discovery uses AI shape recognition to automatically generate gating and AI mold design evaluation.

In the product design and mold design stages, CAE mold flow analysis plays a crucial role by simulating the flow behavior of plastic in the mold. This helps optimize both design and manufacturing processes, perform DFM studies and reduce potential issues. During the product design stage, it assists in optimizing product geometry, wall thickness, and material selection, while identifying potential defects early to reduce design modifications and mold trial iterations, thus shortening the development cycle. In the mold design stage, mold flow analysis optimizes the design of gates, runners, and cooling systems, ensuring even plastic filling of the cavities and improving cooling efficiency. This helps reduce product deformation and residual stresses, and also predicts the strength and deformation of the mold, ensuring its durability. To accelerate the product and mold design process, iSLM 2025 offers a variety of mold flow analysis automation features. It automatically creates projects, significantly simplifying the operation process, eliminating tedious parameter settings and manual intervention. This allows for rapid design verification and optimization, effectively shortening the product development cycle and reducing the risk of human errors. iSLM not only stores intelligent assets but also activates them, extending more intelligent applications, and creating a dedicated data science platform.

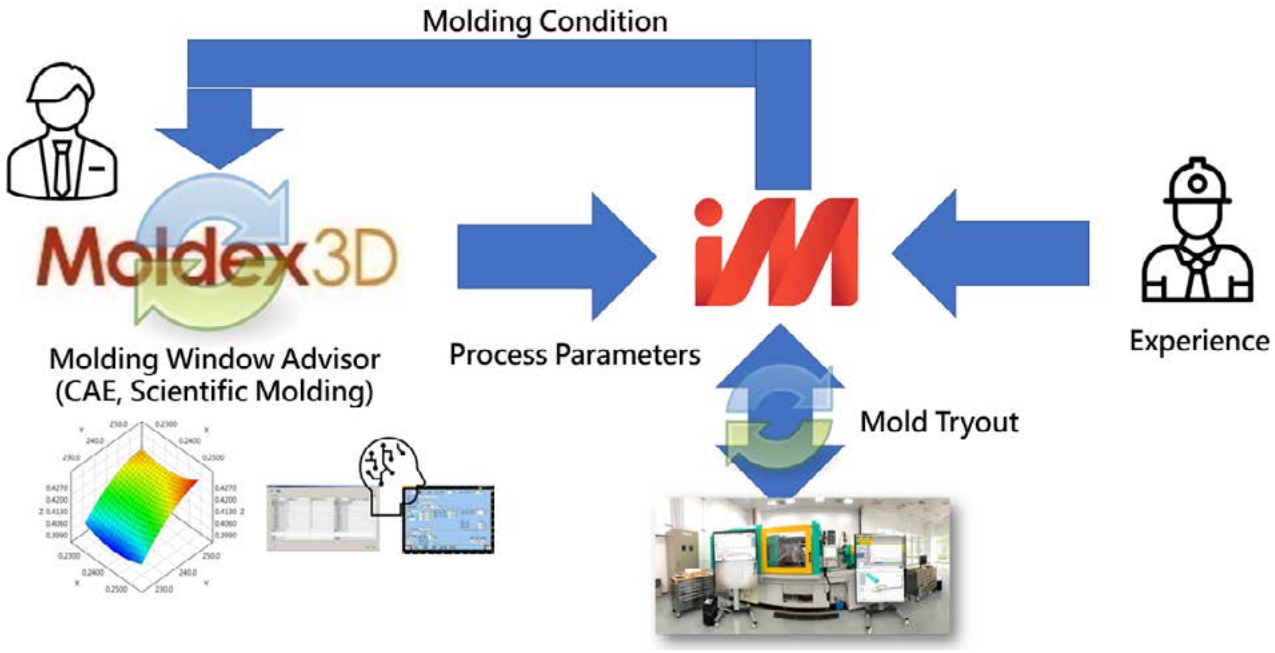
iSLM offers various mold flow analysis automation features, significantly simplifying the operation process for rapid design verification and optimization.

In the process of mold flow analysis, engineers often face challenges such as complex designs, multi-objective trade-offs, and time-consuming parameter adjustments. While these issues can be resolved through mold flow analysis, traditional methods require manual parameter settings and multiple simulations, and the results may not achieve optimization. Moldex3D 2025 AI Optimization Wizard integrates intelligent tools, allowing users to utilize a more user-friendly optimization tool. By simply providing parameter ranges, it can automatically recommend results that meet the requirements. This tool is not only applicable for single-objective designs but also effectively handles multi-objective design needs, significantly improving development efficiency and design quality, helping to accelerate product innovation.



The Moldex3D AI Optimization Wizard effectively handles multi-objective design requirements and quickly completes product innovation.

Finally, during the trial molding phase, CoreTech Systems provides the Molding Window Advisor app on the Moldiverse cloud service platform. After customers download and install it, they can automatically run the CAE scientific trial molding process in Moldex3D and receive suitable molding parameters to assist with on-site machine adjustments. Process Discovery combines the Moldex3D analysis project results from Molding Window Advisor and uses deep learning data science methods to build an AI prediction model. This model provides real-time prediction capabilities, so when molding conditions change, it can quickly generate molding results as references for machine adjustments. Users can upload the AI prediction model to the iMolding Hub's trial molding guidance feature to assist with mold trial adjustments via a mobile browser.



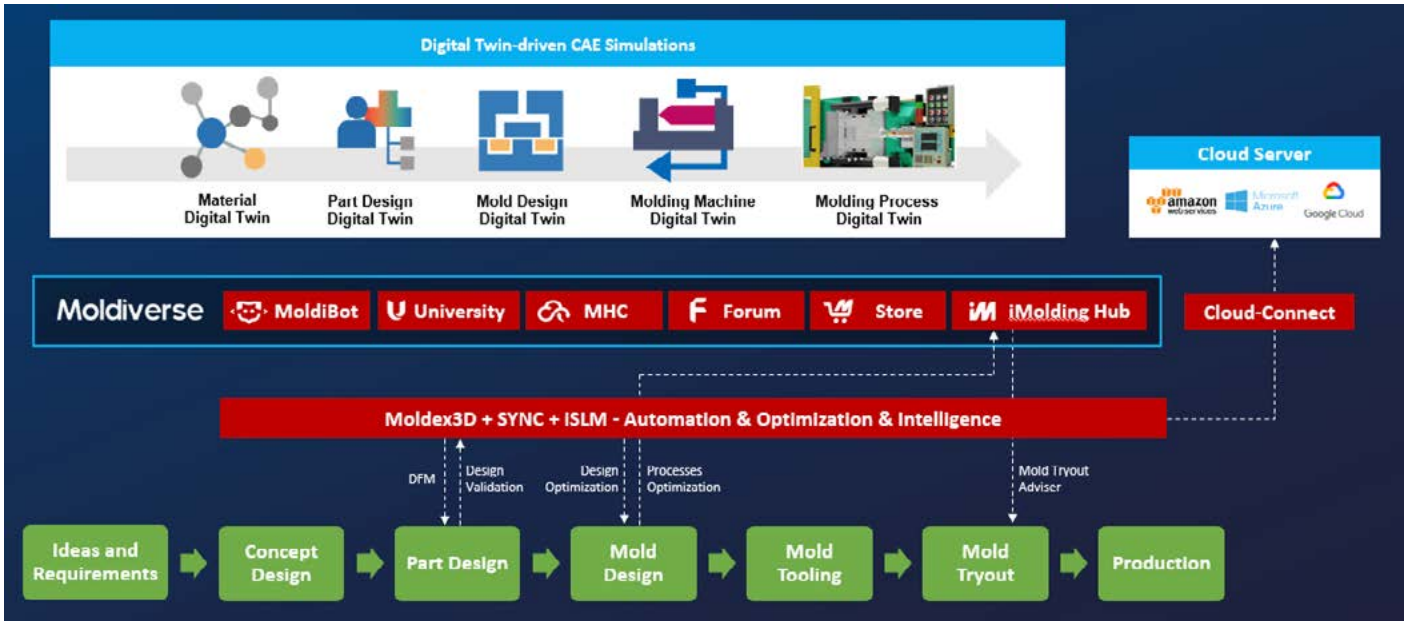
Integrate Molding Window Advisor, Process Discovery, and iMolding Hub to assist with on-site trial molding and machine tuning.

CoreTech Systems' Automation, Optimization, and Intelligence Efficiency Enhancement Solution, with Moldex3D molding simulation analysis at its core, helps customers build an iSLM Database mold case library. By combining technologies such as Automation, Optimization, and Intelligence, it not only shortens the mold design iteration cycle but also comprehensively improves mold development efficiency. This makes the entire mold development process more intelligent and efficient, accelerating the realization of smart molding and truly implementing the company's goal of 'creating value, reducing costs, and increasing efficiency.

Intelligent Assistant for the Plastics Manufacturing Industry – Moldibot Plastic Injection Molding Q&A Robot

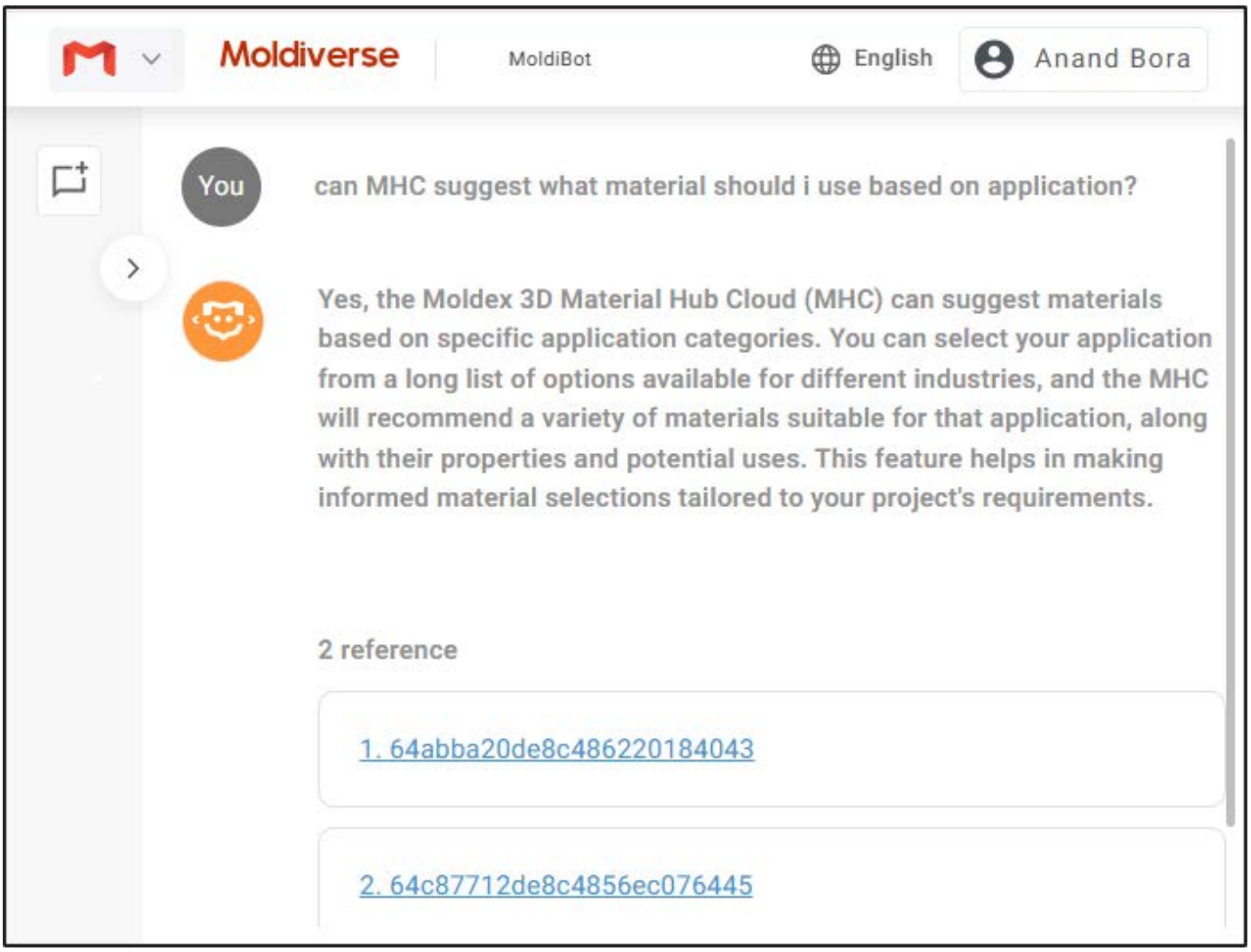
With the rise of Industry 4.0 smart manufacturing, CoreTech Systems deeply recognizes that Moldex3D should not just be a mold flow analysis tool, but should also be integrated into the production process in various forms, providing digital twin for every stage from design to manufacturing with the aim to become a key driver of smart industrialization under Industry 4.0. To achieve this, CoreTech Systems has launched the cloud platform "Moldiverse," which includes five core functions: University (Plastic Processing and Molding Learn-

ing Digital Platform), MHC- Materials Hub Cloud (Plastic Molding Material Database), iMoldingHub (Machine Digital Twin), Forum (Technical Forum), and Moldibot (Q&A Robot). These functions not only assist clients in building, preserving, and managing knowledge assets, but also effectively promote digital transformation within companies, enhancing overall competitiveness.



Cloud-to-ground integration solution for smart manufacturing by CoreTech Systems

Moldibot is the latest functionality to be added to the Moldiverse. MoldiBot is a plastic injection molding Q&A robot that uses ChatGPT as its core language model. It combines Moldiverse and Moldex3D's rich resources, including training courses, technical documents, tutorial videos, and more. By utilizing Retrieval-Augmented Generation (RAG) technology, it enhances its learning and provides generative AI capabilities. MoldiBot offers 24/7 real-time support to help customers solve various plastic injection molding issues, becoming their most reliable intelligent assistant. Through Moldiverse's interactive interface, users can easily ask MoldiBot questions and receive accurate and detailed answers within seconds, significantly reducing search time and effectively boosting work efficiency and productivity. MoldiBot not only provides text-based responses but also includes links to related technical documents, enabling users to delve deeper into the issue and access comprehensive information support. Additionally, MoldiBot supports multiple languages, breaking down language barriers and allowing global users to use it without difficulty. Whether it's a technical issue or an operational challenge, MoldiBot offers assistance through smooth communication, providing an exceptional user experience and further promoting the digital transformation and smart upgrades of the plastic injection molding industry.



The MoldiBot plastic injection molding Q&A robot from CoreTech Systems provides customers with 24/7 real-time support and assistance.

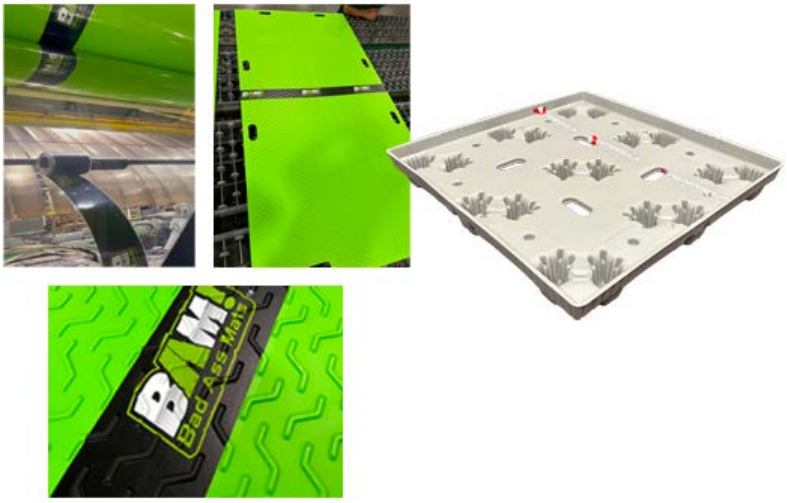
Generative AI Drives AI Agent Development, CoreTech Systems Helps the Manufacturing Industry Step into the New Era of Intelligent Molding.

With the global surge in generative AI driven by ChatGPT, the attention towards AI technology has reached unprecedented heights. Generative AI presents both a huge challenge and a rare opportunity. In response to the rise of generative AI, CoreTech Systems has collaborated to develop the Generative AI mold cooling channel generation technology. This technology, based on Large Language Models (LLM), uses input from product and mold descriptions and CAD files as prompts, automatically generating cooling channel design suggestions that meet the requirements. The final design is then optimized and verified using Moldex3D, opening a new chapter in intelligent plastic injection molding.

We invite you to attend the Moldex3D Symposium 2025 to explore how embracing AI can transform your plastic injection molding processes. For more information and to register, visit our website Moldex3D Symposium 2025.

Polyfuze® Launches Revolutionary Polymer Fusion for Extrusion Lines

By Marty Mares Polyfuze Graphics® Corporation
(928) 634-8888 ext.152



In a significant leap forward for the plastic manufacturing industry, Polyfuze® introduces Polymer Fusion, a groundbreaking technology designed to tackle longstanding challenges in extrusion lines. This innovative solution offers manufacturers a more efficient, durable, and sustainable approach to product labeling, minimizing production downtime and reducing waste.

Polymer Fusion sets a new benchmark for extrusion line operations by delivering permanent, high-performance labels that are integrated directly into the plastic during the extrusion process. Unlike traditional methods that rely on adhesive-backed labels or surface printing, Polymer Fusion labels become an inseparable part of the material itself—ensuring unrivaled durability and engineered resistance to fading, wear, chemicals, UV exposure, and extreme temperatures.

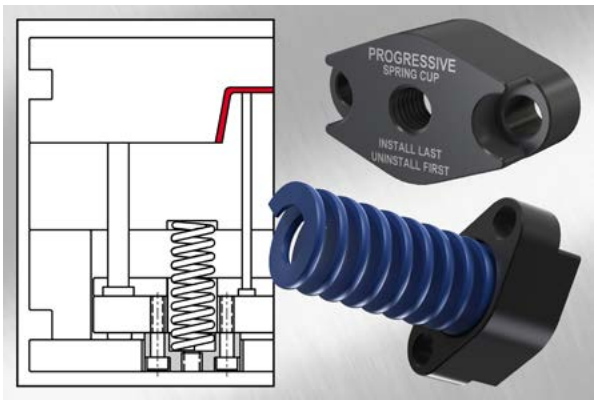
"What makes this new product offering different is continuous printing. It's more than just a label; it's a continuous band of Polymer Fusion which is a game changer for extrusion lines," said Jason Brownell, Director of Engineering. "This all-new technology from Polyfuze® streamlines production and supports sustainability efforts by being fully recyclable. It's a win for both operational efficiency and environmental responsibility."

Key Features and Benefits:

- **Unmatched Durability:** Labels are permanently fused into the plastic, eliminating the risk of peeling or detachment.
- **Superior Resistance:** Withstands chemicals, UV exposure, and temperature extremes, making it ideal for a variety of industries and applications.
- **Seamless Integration:** Polymer Fusion is applied directly during extrusion, requiring no pre- or post-treatment, which significantly reduces production time and costs.
- **Sustainability:** Fully recyclable, Polymer Fusion aligns with sustainability goals while offering long-lasting labeling solutions.

The ability to customize designs with multi-color options, including logos, safety warnings, and decorative patterns, makes Polymer Fusion highly adaptable to various manufacturing needs. Whether for packaging, automotive, or consumer goods, this solution provides an all-in-one approach to labeling that enhances both functionality and brand identity.

New Spring Cups from Progressive Components Allow for Safer and Easier Spring Installation



Progressive Components (Wauconda, IL) announces the release of the new Spring Cup ejector system component. This product speeds and simplifies the safe assembly of spring-loaded ejector systems, helps prevent damage to ejector pins and components, and optimizes valuable space within a mold's design.

Mold assembly can be cumbersome and unsafe when overcoming spring pressure within an ejector system. Instead, Spring Cups allow for all ejection components to be installed first, without the ejector springs installed. This allows the ejector system to be tested or "dry cycled" to verify the mold components were assembled correctly and that there are no binding issues, which can cause damage or premature wear to pins, sleeves, and lifters. After verification, the mold's springs are then installed, and the Spring Cups bolted in last.

Spring Cups speed mold assembly. Traditionally, a common requirement on a toolroom checklist is for the entire mold half to be assembled without springs, followed by a check that the ejector system is moving smoothly, then disassembly of the mold, springs added, and then reassembled. But with Spring Cups, after verification of smooth ejection movement, assembly is completed, which means that a mold's core half need only be assembled once. These steps are apparent to toolroom personnel, as Spring Cups feature laser etched text that states "Install last" and "Uninstall first."

Mold designs benefit from the use of Spring Cups. An additional advantage is that Spring Cups can also serve as a PKO Extension, allowing two functions to be located at one location.

Product features:

- Springs are installed last, which enables verification of a smooth-running ejector system prior to spring installation.
- Assembly is safer by eliminating spring-loaded moving mold plates.
- An application-suited spring can be selected by designers and placed away from more valuable locations within the mold.
- Can be placed at PKO locations as a space-saving option.
- Spring Cups can retain springs in other locations, such as cavity-half floating plates.
- Available in seven sizes to accommodate common spring diameters and standard plate thicknesses.
- CAD geometry is offered in various formats, including SolidWorks, NX, VISI, Parasolid, ACIS, and IGES.

For more information on the new Spring Cups or Progressive's extensive line of standard and exclusive mold components, visit www.procomps.com, email tech@procomps.com, or call 1-800-269-6653.

IMD Board of Directors Meeting
March 6th, 2025 – In-person/Virtual

Meeting minutes are taken and submitted by Saeed Farahani (2024-2025 SPE IMD Secretary

Welcome & Opening Remarks (Kusuma)

Roll Call: Participants 17 out of 25 active board members on the roster: quorum achieved. No one from SPE national or observers attended

Welcome everyone to this board meeting, and I hope you can attend ANTEC.

Approval of previous Meeting Minutes (David Kusuma)
Motion: September 24, 2024 (Virtual) – Motioned by David Okonski, seconded by Joseph Lawrence; approved.
January 17, 2025 (3M Meeting) – Motioned by Chad Ulven, seconded by Lynzie Nebel; approved.

Committee and Officer Reports Reports Discussion

1. Financial (Ray McKee)

- IMD's financial conditions are stated as presented in the attached presentation slides.
- The main expense was related to the ANTEC Reception, resulting in an estimated $12,000 net loss.
- Historically, the reception has relied on corporate sponsorship, but there has been a decline in sponsors this year. Historically the reception was a loss rather than a revenue generation
- Richard: Is there any cost or revenue for the joined sessions with SPE?
- Ray: no cost nor revenue. It is organized by SPE headquarter
- David Kusuma: receptions are usually considered as seed or investment activities to promote/initiate some other activities

2. Membership Update (Erik Foltz)

- No update

3. Communications Update (Angela Cengarle)

- *Challenges:*
  - The old domain cannot be updated due to the domain holder being unresponsive.
  - Sponsored LinkedIn ads significantly increased impressions, but more engagement is needed.
- *Key Goals:*
  - Achieve 30 LinkedIn posts in 2025.
  - Track the number of new members joining through advertising activities.
- *Discussion:*
  - Richard Voyles suggested targeting companies and providing incentives to boost engagement.
  - Davide Masato noted that some membership growth metrics could be tracked.
  - Angela Cengarle mentioned that holding events is the most effective way to generate revenue for the division.
  - David Kusuma emphasized the need for two levels of engagement strategies: 1) Engaging existing SPE members who are not actively participating in IMD, 2) Attracting new members who are not yet part of SPE.

4. Council Report (Edwin Tam)

- Summary of the SPE Council Annual Meeting and 2024 Financial Report were presented per the attached meeting slides.
- SPE's 2025-2027 strategic goals were presented, focusing on networking, professional experience, and knowledge sharing.

5. Technical Director's Report (Chad)

- In this year ANTEC, almost 10 conference submissions were high-quality and could be published as a special journal issue in one of the SPE journals.
- Discussion on the proposed role of the IMD Technical Director and the Education Committee's involvement.
- Hoa: we already have an education committee. We also have the definition of technical director in the bylaw and we can reference back to it.
- Hoa: what the education committee is doing currently?
- David Kusuma: we need to reformulate the education committee and possibly consolidate with the technical director
- Richard: we need to make sure if we need to change the bylaw or if this proposal is aligned with the current bylaw.
- David Kusuma: This discussion was tabled to come back to it during the next meeting and see if we need to update the bylaw

Action Item: Schedule a meeting with the Education Committee to discuss this proposal and whether bylaw changes are needed.

6. IMD BOD Nominations 2025 (Hoa)

- Motion to approve the 2025 Board Officers as presented in the slides.
- Motioned by Hoa Pham, seconded by Chad Ulven; approved.
- Hoa: David Kusuma is nominated to join the SPE council
- Richard Voyle was nominated for secretary 2027
- David Kusuma: discussing Open Officer and Committee Roles.

  IMD Treasurer role: We need a volunteer to accept this role and get trained by Ray. If anyone is interested in this position, please contact Ray.

  IMD Sponsorship (Committee Lead) Role: If anyone is interested in this role contact David Kusuma

7. HSM & FELLOWS (David Kusuma on behalf of Tom Turng)

- No honorees from IMD in this cycle.
- Two nominees presented for Fellow and HSM recognition in next year's cycle.

ANTEC 2025 Wrap-Up (Davide Masato)

1. Davide provided a presentation to summarize the important highlights of ANTEC 2025
   - Thank you to everyone who supported this event
   - The process of best paper award selection was explained
   - Overall, it was a great event and a good success
   - Highest attendance in sessions: 50 attendees; lowest: 25 attendees.

2. David Kusuma:
    - Thanks Davide and the team for their great effort
    - Davide's slide will later be provided along with this meeting minutes
3. ANTEC Reception (Tom)
    - Event was well attended; pictures were shared.

IMPACT AWARDS UPDATE (David Kusuma)

1. Decision to postpone the awards competition to Fall 2025.
2. Reasons for postponement:
    - Low number of entries this cycle.
    - Insufficient time for submitters to prepare.
    - Need for more promotion.

Chairman Report (David K)

1. Key objectives 2024-2025 Board term were presented
2. KPIs to be introduced so that we can measure what we do and identify areas of improvement.
3. Everyone on the IMD board engaged with the committees
4. Consider senior board members as emeritus members to receive their guidance as an advisory board.

Next Board Meeting

1. Date: June 10, 2025
2. Location: Penn State Behrend
3. Format: Hybrid (in-person + Teams for remote attendees)
4. Lunch will be provided.
5. Board members interested in attending should email Brad Johnson.

New Businesses

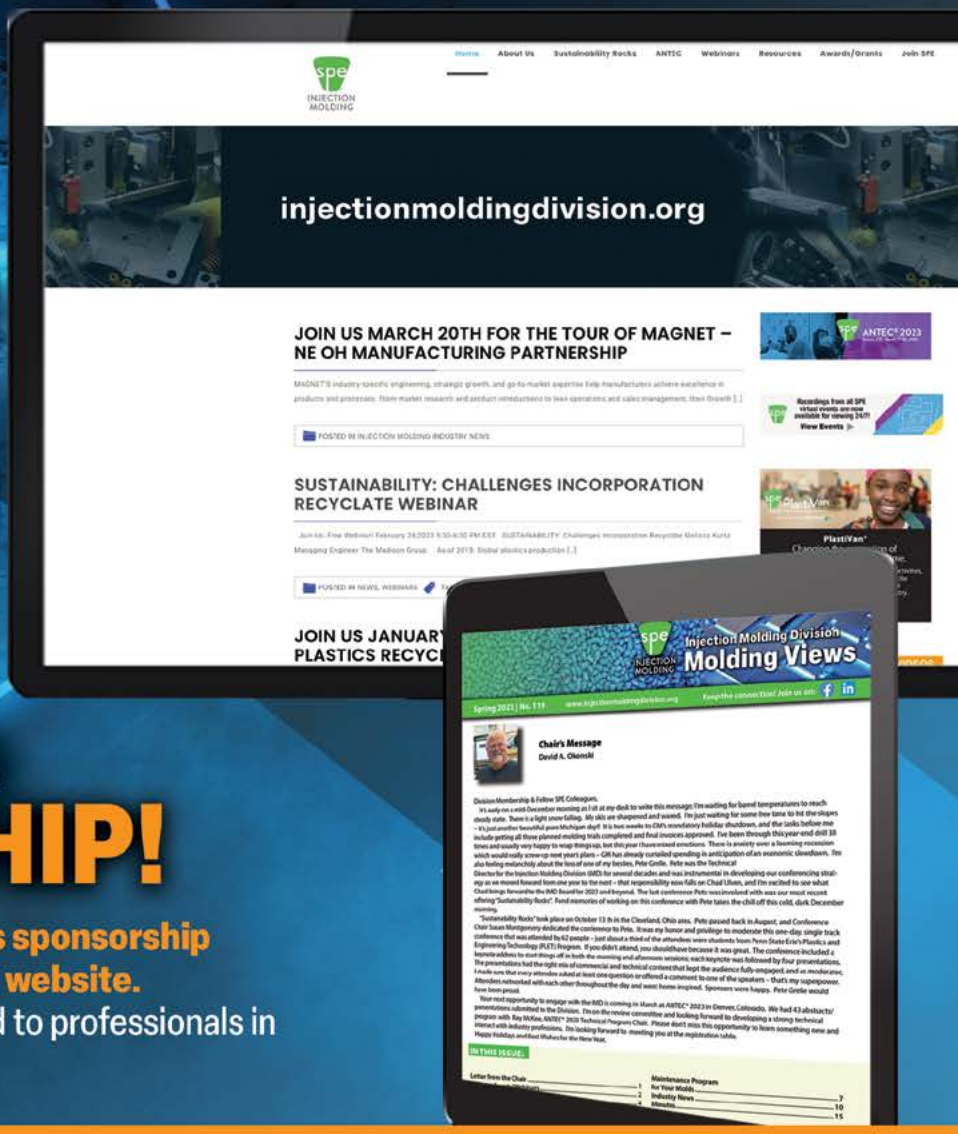
1. No item

IKV Research and Collaborations (Pia Wagner)

1. Introduction of RWTH Aachen University
2. Introduction of IKV
3. Potential collaboration opportunities for industry and academia were discussed.

Adjournment

1. Motion to adjourn: Motioned by Tom Giovannetti, seconded by Joseph Lawrence; approved



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Division Officers 2024-2025:

Chair:	David Kusuma
Chair-Elect:	Tom Giovannetti
Treasurer:	Raymond McKee
Secretary:	Saeed Farahani
Technical Director:	Chad Ulven
Past Chair:	Jeremy Dworshak
Councilor:	Edwin Tam
ANTEC TPC:	Davide Masato
Membership Committee Chair:	Erik Foltz
Newsletter Editor:	Angela Cengarle
Emeritus:	Vikram Bhargava
Board Member:	Joseph Lawrence
Board Member:	Lynzie Nebel
Board Member:	Bradley Johnson
Board Member:	David Okonski
Board Member:	Hoa Pham
Board Member:	Srikanth Pill
Board Member:	Sriraj Patel
Board Member:	Tom Turng
Board Member:	Laura Florez
Board Member:	Laura Kender
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