Moldex3D Technology Conference 2019
18-19 June, 2019
InterContinental Hotels & Resorts | SHANGHAI, CHINA

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More Info
Welcome

Moldex3D Technology Conference (MTC) is held in order to strengthen Moldex3D worldwide users' alliance and working relationship between industries, research institutes, and academia. This international forum provides unique opportunity for discussion on technical and practical solutions, lead by experts and professionals in the area of engineering design, analysis and simulation.

It is our pleasures to welcome you to the MTC 2019 and we hope you will participate actively, with the many invited, leading professionals. We are sure you will find this event both enjoyable and rewarding.
ABOUT MTC

Moldex3D Technology Conference (MTC) is the world's leading conference for plastic manufacturing and engineering experts. It's a forum where the latest development, technology and trends are presented and discussed.

As the top communication platform, MTC focuses on the real issues that drive the day to day lives of plastic technology professionals, providing the attendees access to valuable insider knowledge and establish useful contacts in the plastics industry.
MTC 2018
ATTENDEE PROFILE

MTC aims at professional audiences. Conference attendees come from over 25 different countries, and over half of attendees have engineer or management background.
WHY SHOULD ATTEND?

- Hear from the technological advancements and innovative numerical simulation methods adopted by top-notch experts from leading companies
- Keep pace with the ever-changing market trends, customer demands and technological landscape
- Be the first to see and experience Moldex3D’s next-gen plastics simulation solutions
- Discover new best practices and strategies to help you accelerate product innovations
- Network with more than 200 of the best minds in the plastics industry around the globe, including key decision makers, product engineers and designers, process engineers, mold makers, and more
# AGENDA

**DAY 1: TUESDAY, 18 JUN, 2019**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:20 – 08:50</td>
<td>Registration</td>
<td></td>
</tr>
<tr>
<td>08:50 – 09:00</td>
<td>Opening</td>
<td></td>
</tr>
<tr>
<td>09:00 – 09:40</td>
<td>Improve warpage prediction due to cooling conditions</td>
<td>Samsung Joonsung Tae</td>
</tr>
<tr>
<td>09:40 – 10:20</td>
<td>Automatic quick flow for part optimization based on Moldex3D API tools</td>
<td>BASF Jin Jing</td>
</tr>
<tr>
<td>10:20 – 11:00</td>
<td>2K-ICM Simulation Framework to Enable Design Optimization for Surface Aesthetics</td>
<td>SABIC Raghavendra Janiwarad</td>
</tr>
<tr>
<td>11:00 – 11:10</td>
<td>Award Ceremony</td>
<td></td>
</tr>
<tr>
<td>11:10 – 11:30</td>
<td>Coffee Break / MTC Exhibition</td>
<td></td>
</tr>
<tr>
<td>11:30 – 12:00</td>
<td>Process Transfer with Moldex3D Simulation for Smart Manufacturing</td>
<td>RJG, Inc Doug Espinoza</td>
</tr>
<tr>
<td>12:00 – 12:30</td>
<td>Flow-fiber coupled viscosity induced mold filling imbalance</td>
<td>Dr. Schneider Przemyslaw Narowski</td>
</tr>
<tr>
<td>12:30 – 13:30</td>
<td>Lunch / MTC Exhibition</td>
<td></td>
</tr>
<tr>
<td>13:30 – 14:00</td>
<td>Use the Carbon-Fiber Orientation Stress analysis on Hammer Tacker</td>
<td>Stanley Black &amp; Decker William Lai</td>
</tr>
<tr>
<td>14:00 – 14:30</td>
<td>Flow pattern analysis &amp; Warpage verification of automotive connectors using Moldex3D</td>
<td>Hirose Yong Soo Jung</td>
</tr>
<tr>
<td>14:30 – 15:00</td>
<td>Approach to high accuracy in Moldex3D</td>
<td>Asahi Kasei Vietnam Hideyuki</td>
</tr>
<tr>
<td>15:00 – 15:30</td>
<td>Improvement of anti-vibration product G BUSH quality through analysis of Moldex3D</td>
<td>Pyung Hwa Industry Dong Hyung Lee</td>
</tr>
<tr>
<td>15:30 – 15:50</td>
<td>Coffee Break / MTC Exhibition</td>
<td></td>
</tr>
<tr>
<td>15:50 – 16:20</td>
<td>Application of Molding Analysis to Improve Corner Effects Caused by Valve Gate Hot Runner Systems</td>
<td>Free-Free Industrial Young Lu</td>
</tr>
<tr>
<td>16:20 – 16:50</td>
<td>Comparison of CAE and parts using moldex3d foaming analysis</td>
<td>Kolon Plastics Tae Cheal Kim</td>
</tr>
<tr>
<td>16:50-17:00</td>
<td>GITA Award Ceremony</td>
<td></td>
</tr>
<tr>
<td>17:00-18:00</td>
<td>Aperitif / MTC Exhibition</td>
<td></td>
</tr>
</tbody>
</table>
# AGENDA

## DAY 2: WEDNESDAY, 19 JUN, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:50 – 09:00</td>
<td>Opening</td>
<td></td>
</tr>
<tr>
<td>09:00 – 09:40</td>
<td>Injection moulding simulation at LEGO System A/S in 2025</td>
<td>LEGO Brian Keith Sørensen Patrick Guerrier</td>
</tr>
<tr>
<td>09:40 – 10:20</td>
<td>Simulation for Vehicle display part with ICM and IML technology</td>
<td>LG Electronics HyunGyu Lee</td>
</tr>
<tr>
<td>10:20 – 10:30</td>
<td>Award Ceremony</td>
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<tr>
<td>10:30 – 10:50</td>
<td>Coffee Break / MTC Exhibition</td>
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<tr>
<td>10:50 – 11:20</td>
<td>Investigation on Effect of Tear Seam Angle and Injection Direction on the Properties of Tear Seam based on A Square Plate</td>
<td>Autoliv Yanhua Li</td>
</tr>
<tr>
<td>11:20 – 11:50</td>
<td>Improving warpage prediction for engineering plastics</td>
<td>DSM Shelly Chen</td>
</tr>
<tr>
<td>11:50 – 12:20</td>
<td>Welding Lines location and conditions: how to account for their weakening effect in CAE</td>
<td>Radici Group Carlo Grassini</td>
</tr>
<tr>
<td>12:20 – 13:30</td>
<td>Lunch / MTC Exhibition</td>
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</tr>
<tr>
<td>13:30 – 14:00</td>
<td>Simulation with thermosets – some important remarks</td>
<td>Schwarz Plastic Solutions Ingo Schwarz</td>
</tr>
<tr>
<td>14:00 – 14:30</td>
<td>Car side window Encapsulation process</td>
<td>Dura Automotive Bhargav Nadinla</td>
</tr>
<tr>
<td>14:30 – 15:00</td>
<td>Numerical analysis on the warpage of shell products for optimization via Moldex3D</td>
<td>TE Connectivity Hubert Chen</td>
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<tr>
<td>15:00 – 15:30</td>
<td>A robust, fast and easy way to integrate manufacturing effects into FEA</td>
<td>MSC Software Weizhuo Du</td>
</tr>
<tr>
<td>15:30 – 16:00</td>
<td>Moldex3d R17 &amp; Future Development</td>
<td>Moldex3D David Hsu</td>
</tr>
<tr>
<td>16:00 – 16:30</td>
<td>Farewell &amp; Tea Break</td>
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</tr>
</tbody>
</table>
**SPEAKER HIGHLIGHTS**

**Bhargav Nadinla**
Dura Automotive Systems / Senior Analyst

Bhargav Nadinla has 8 years’ experience of Advanced CAE plastic injection molding process, conducted virtual validation for over 300 tools with different types of technologies like conformal cooling, RHCM, MUCELL, GAS assisted, 2k injection molding, In-mold decoration and In-mold electronics.

**Brian Keith Sørensen & Patrick Guerrier**
LEGO / Senior CAE Manager

About LEGO
The name "LEGO" is an abbreviation of two Danish words "leg godt", meaning "play well". It's our name and our ideal. The LEGO Group was founded in 1932 by Ole Kirk Kristiansen. It has come a long way over the past 80 years - from a small carpenter's workshop to a modern, global enterprise that is now one of the world's largest manufacturers of toys.

Our products have undergone extensive development over the years, but the foundation remains the traditional LEGO brick. The interlocking principle with its tubes makes it unique and offers unlimited building possibilities. It's just a matter of getting the imagination going and letting a wealth of creative ideas emerge through play.
SPEAKER HIGHLIGHTS

Carlo Grassini
RadiciGroup / CAE Leader Engineer

• M.E., Materials Engineering, University of Brescia, Italy
• Since 2010, working in RadiciGroup in Technical Service and Market Development sector. Caring for application development projects with key customers, following all the technical aspects from material selection to problem solving.
• In charge of the CAE support service, which RadiciGroup provides to customers in support of strategic projects

Dong Hyung Lee
Pyung Hwa Industry / Assistant Manager

He is currently working as a researcher in the mold design team of R & D headquarters. He joined Peace Industry in 2010 and worked for 9 years. He is engaged in various tasks such as analysis, mold design, and automation mold.
Doug Espinoza
RJG, Inc / TZERO® Manager

Doug Espinoza is the TZERO® Manager for RJG, Inc. His varied career includes service in the U.S. Marine Corps, engineering, management, business development, and strategic planning.

Doug has spent more than 25 years in the plastics industry. He holds a B.S. in Plastics Engineering Technology from Ferris State University and a M.B.A with an emphasis in International Business from Loyola University Chicago.

Hubert Chen
TE Connectivity/ CAE & CAD Analyst

- M.E., Nuclear Engineering and Nuclear Technology, University of Manchester
- Dual bachelor’s degree, North China Electric Power University and Grenoble University of Technology
- Currently working for TE, in charge of simulation support in APAC
- Researcher of nuclear engineering and physics for 3 years at National Institute of Slovenia
- Simulation engineer for 3 years at United Automotive Electronics
SPEAKER HIGHLIGHTS

Hyun Gyu Lee
LG Electronics / Plastic Forming Technology Team
• 2007 – 2013, B.S Kyungbook National Univ., Korea
• 2013 – 2016, M.S Kyungbook National Univ., Korea
• 2016 – 2019, Researcher, Production Engineering Research Institute, LG Electronics

Inaba Hideyuki
Asahi Kasei Plastics Vietnam / President
Graduated from Department of Materials Engineering, Yokohama National University, in 1990. After joining Asahi Kasei, engaged in developing applications for engineering plastic. Currently, the global CAE manager of Asahi Kasei and President of Asahi Kasei Plastics Vietnam (Asahi Kasei CAR global Center).
SPEAKER HIGHLIGHTS

Ingo Schwarz
Schwarz Plastic Solutions GmbH / Managing Director
• More than 35 years of molding experience
• Using Moldex3D for thermosets since about 8 years
• Now consulting activity for design optimization of products, molds and processes – especially for thermosetting molding compounds

Dr. Joonsung Tae
Samsung Electronics / Mold & Die Technology Team
• Ph.D., Mechanical Engineering, Ajou University, Korea
• Specialized in monitoring system of injection molding such as Built-In Sensor System for micro lens mold
• Member of unmanned injection molding system development project and CAE automation project in Samsung Electronics in International Business from Loyola University Chicago.
SPEAKER HIGHLIGHTS

Jin Jing
BASF(China) Co., Ltd / CAE Manager
• Bachelor of Mechanical Engineering from Shanghai University
• Simulation engineering specialized in integrative simulation of plastic part with consideration of fiber orientation
• More than 15 years' simulation experience for automotive light weight part design and simulation

Przemyslaw Narowski
Dr. Schneider / CAE Engineer
• Over 10 years of experience in injection molding industry
• More than 5 years of making injection molding simulations
• Moldex3D user since 2015
• Active researcher and lecturer at Warsaw University of Technology
SPEAKER HIGHLIGHTS

Raghavendra Janiwarad
SABIC Research & Technology / Scientist
• Over 12 years of industrial experience
• Scientist in the Global Applications Team of SABIC Petrochemicals
• Specializes in injection molding, blow molding, and thermoforming.
• Familiar with mold design, machine selection, and molding process optimization in the field of automotive and industrial application development.
• Focused on the principles of systematic injection molding and its correlation with CAE.

Shelly Chen
DSM Engineering Plastics / CAE Engineer
• M.E., Structure Mechanics of Civil Engineering, Chung-Hsing University (Taiwan)
• More than 5 years of experience in connector industry as a CAE engineer
• Since 2007, working at DSM Engineer Plastics as a CAE Specialist to deliver valued technical support for application development with key customers
• Experienced at Computer Aided Engineering tools combining Structure Analysis and Injection Molding Simulation
• Specialized in rheological behavior, injection molding processes and problem solving
SPEAKER HIGHLIGHTS

Tae Cheal Kim
KOLON PLASTIC INC / General Manager

Abstract
Foaming process is applied to ensure the light weighting and rigidity of vehicle components.
Our company has verified reliability of MOLDEX3D foaming analysis using comparison of CAE result and experiment.

Weizhuo Du
MSC software / Senior engineer

Has many years of experience in CAE simulation. Extensive experience in multiphysics coupling and multiscale modeling of composite materials.
Good at analyzing the prediction of mechanical properties of various composite forming processes. Also skilled in nonlinear, dynamic, and other field simulation of composite structures.
SPEAKER HIGHLIGHTS

William Lai
Stanley Black & Decker / Lead Project Engineer
• Stanley Black & Decker, Lead Project Engineer (Leader), Design to Value Department (Now)
• Charder Electronic, Project Manager
• Pou Yuen Tech, Mechanical Engineer
• Abundant teaching experience
  – Chaoyang University of Technology, Assistant professor
  – National Chin-Yi University of Technology, Lecturer

Dr. Yanhua Li
Autoliv China Technical Center / Senior Simulation Engineer
• Ph.D, Mechanical Engineering, Tongji University
• Familiar with multiple CAE softwares (Moldex3D, Flow3D, Digimat-RP, Dyna)
• Specializes in providing solutions of injection molding, diecasting molding, and stamping simulation
• Integrative simulation of mold filling and structure analysis
SPEAKER HIGHLIGHTS

Yong Soo Jung
HIROSE KOREA / Principal Engineer
Abstract
Excellent performance of Moldex 3D
- Verification of flow patterns and warpage
- Comparison of Short-Shot Test & simulation result

Young Lu
Free-Free Industrial Corp / Manager
• M.E., Mold Engineering, Kaohsiung University of Applied Sciences
• Technical director of injection molding field at Chinelee Ltd.
• Molding analysis import and system establishment at Min Hsiang Ltd.
• Mold design and molding verification for OEM lamps at Juoku Technology.
• Acting as FAE manager at Free-Free Industrial corp. System integration and control of mold, injection molding and assembly.
SPEAKER HIGHLIGHTS

Dr. David Hsu
Moldex3D (CoreTech System) / President

• PhD, Chemical Engineering, Taiwan Tsing-Hua University
• President of Product Development. Leading the R&D team of more than 100 Moldex3D developers to deliver the leading-edge solutions to industries
• Has been working on the backbone of Moldex3D since early 90
• Specialties in software engineering, software development, process simulation, optimization, scientific visualization, and computational intelligence
SPONSORS

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RJG: Helping Molders Succeed
RJG® has been a global pioneer in the injection molding industry for the past 34 years. In the 80’s, we were at the center of creation and adaptation of Scientific Molding across our industry. In the 90’s, we transformed the implementation of in-cavity sensors with the development of digital sensor technology. In the 2000’s, we released the plastics industry’s first digital data acquisition platform.

In addition, RJG provides both general interest and specialized training for injection molding professionals at all levels. Support and training are provided world-wide at RJG regional sales offices throughout the world and online.

We Offer:
• Cavity pressure sensors and process control systems
• Comprehensive training and application assistance
• Plant analysis and consultation services
• Proven injection molding strategies
• Professional customer support

We Do Things Differently
RJG® focuses on the scientific molding principles that look at molding from the plastic’s point of view. We work closely with every customer to identify problems and develop strategies for lasting solutions that guarantee absolute quality of plastic parts. Our goal? To help our customers be the most sought-after molders in their segment.

RJG TZERO® Program: Decrease Cost & Time During Tool Launch
Making changes down the line in the tool launch process is time consuming, expensive, and has less of an impact. RJG’s TZERO® program helps world-class companies cut the cost and time wasted on adjustments during a tool launch. Our unique approach provides a framework for collaboration between engineering and manufacturing in review of part design and the mold development process to avoid molding uncertainties.

Our TZERO Services:
• Simulation: Injection molding simulation in a virtual environment using Moldex3D® software
• Optimization: Hands-on optimization of the mold design, part design, and injection molding process
• Evaluation: Evaluation of polymer and resin selections, in-mold sensors, and current process procedures
• Consultation: Real-world consultation, including process monitoring and control strategies, research and development, and training and workshops

“We the work with TZERO provided significant improvements in all areas that will save the company an estimated $4 million per year in piece price.” - Jeremy Williams, Principal Engineer at Access Business Group, LLC.

Find out more: www.rjginc.com
Gold Sponsor

Micro Injection Molding
The injection molding machine we utilize is world-renowned for its small size, for consuming the least resin and for its ability to produce small components.

We assist our customers in developing injection molding technology and help integrate this technology into their mass production process for the following products: Medical components, precision electronic parts, connectors, small gears, optical elements, wearable devices, and so on.

CYBERNET

CYBERNET SYSTEMS (SHANGHAI) CO., LTD. is a foreign-owned enterprise to provide local customers and multinational companies with CAE technology service, the providing products and services include integrated process and multidisciplinary optimization design, optical design and testing, scientific computing and system-level modeling, tolerance analysis and optimization, general simulation tools, and related industry professional technical advice, technical services and training.

CYBERNET provides customers with process related tools and services from the product conceptual design, physical design, the simulation optimization, design validation to product performance testing.

CYBERNET group is Japan's largest CAE technology services company, established in 1985 in Tokyo, Japan, the level of listed companies.
Gold Sponsor

Development and manufacture of high-quality equipment for the production of silicone and rubber components has been the focus of activities of the founders of ELMET from the very outset. Constant advancement of the range of products and of technologies has now turned ELMET into the FULL SYSTEM SUPPLIER.

As a small and committed team with a lot of experience in the areas of tool-making and the automation of the LIM (liquid injection molding) process, the founders’ dreams of being one day independent have come true. ELMET customers were thrilled from the beginning by their open and direct communication, extensive know-how, and the tireless drive to expand the existing knowledge and try out new things.

The knowledge that could be gained on striking an increasing number of new paths has currently materialized in the form of sophisticated and high-quality products that are implemented on a daily basis by very well trained and motivated staff. Due to the permanent development cycle that is constantly applied to products, production processes, and staff, ELMET assures its global customers now and in the future to meet the highest demands of full system solutions in the production of silicone and rubber components.

Founded in 2015, Minnotec Technology Consulting Co., Ltd. specializes in the service of Plastic Tooling and Molding industry. It provides solutions for members to meet the needs of ACMT technology platform, and assists the industry to carry out complete technology transfer and provide professional technical consulting services.

• **AloM (AI and Internet of Molding)**
Providing advisory services for building intelligent Internet of Things, the core of the AloM solution adopts the K-Plat-form specification, integrating intelligent mold design, intelligent Moldex3D analysis, tool manufacturing management, Molding injection management, scientific test molding management, mold warranty management. Analyze and identify the customer's undetected problems, create supporting services, and assist the industry to expand the value of the company.

• **AMT (Advanced Molding Technology)**
Solutions for the mold and molding industry to provide enhanced core technology, including: conformal cooling design and manufacturing, MuCell molding technology, diffusion bonding, electron beam polishing, cooling channel cleaning solutions, CT Scan inspection, multi-cavity melting Technology...etc.

• **Molding Training Certification**
Provide talent development plan combining theory and practice for mold and molding industry
Gold Sponsor

NETZSCH

As the leading manufacturers of thermal analysis instruments, NETZSCH offers the broadest range of products for thermal analysis including the instruments for Differential Scanning Calorimetry, Thermogravimetry, Simultaneous Thermal Analysis, Dilatometry, Dynamic Mechanical Analysis, Thermomechanical Analysis, Coupling techniques, Thermal conductivity testing, Dielectric Cure Monitoring And Dielectric Analysis, Refractories Testing and Adiabatic Reaction Calorimeter.

The working temperature of the instruments can be in the range from -260 to 2800°C. Beginning from 1996, NETZSCH China has set up 4 branch offices in Beijing, Shanghai.

About Trexel

MuCell® Microcellular foaming technology was originally conceptualized and invented at the Massachusetts Institute of Technology (MIT) and in 1995 Trexel was granted an exclusive worldwide license for the further development and commercialization of the technology. Today, Trexel is the exclusive provider of the MuCell® microcellular foam technology and maintains an extensive global patent portfolio. Trexel provides world-class engineering support, training and other design and processing services, as well as the equipment and components integral to the MuCell® process.

From the global headquarters in Boston, Massachusetts, Trexel operates a state of the art plastics processing development laboratory, supporting plastics processors with the definition and implementation of leading and differentiating plastic molding technologies.

In support of a global client base, Trexel operates subsidiaries in Europe, Japan and Southeast Asia with competent plastics processing engineering capabilities. Trexel’s worldwide subsidiaries are augmented by a network of competent independent representatives and distributors.
VENUE

InterContinental Shanghai Pudong
Second Floor, Tomson Ballroom
No.777 Zhangyang Road, Pudong New Area : Shanghai, China
## Recommended Accommodations

Click on the map below for further information to plan your trip:

<table>
<thead>
<tr>
<th>Hotel Name</th>
<th>Walking Distance from the Event Venue</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>上海錦江湯臣洲際大酒店</strong>  InterContinental Shanghai Pudong</td>
<td>Event Venue</td>
</tr>
<tr>
<td><strong>紫金山大酒店宴會廳</strong>  Grand Trustel Purple Mountain Shanghai</td>
<td>6 mins</td>
</tr>
<tr>
<td><strong>全季酒店(上海陸家嘴八佰伴店)</strong>  All Seasons Hotels</td>
<td>4 mins</td>
</tr>
<tr>
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<td>9 mins</td>
</tr>
<tr>
<td><strong>明城花苑酒店健身中心</strong>  Supreme Tower</td>
<td>9 mins</td>
</tr>
<tr>
<td><strong>上海中電大酒店</strong>  Zhongdian Hotel</td>
<td>9 mins</td>
</tr>
<tr>
<td><strong>上海宝安大酒店</strong>  Shanghai Baoan Hotel</td>
<td>8 mins</td>
</tr>
<tr>
<td><strong>上海齊魯萬怡大酒店</strong>  Courtyard by Marriott Shanghai Pudong</td>
<td>11 mins</td>
</tr>
</tbody>
</table>
MTC THE WORLD’S LEADING PLASTICS EXPERT CONFERENCE

CONTACT INFORMATION

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