

# MAGMA News

## Thailand Edition

**5 Engineering**  
Casting Process Optimized

Issue No.: 7 March 2015

MAGMA Thai Newsletter	MAGMA User Meeting 2015
<p>Do you want to publish an article or success story? <a href="mailto:info@m5engineering.co.th">info@m5engineering.co.th</a></p>	<div></div>
<p>Events in 2015</p>	
<p>GIFA 2015</p> <div></div> <p>6/16/15 - 6/20/15 Düsseldorf, Germany 13th International Foundry Trade Fair with Technical Forum</p> <p><b>Important Announcement:</b></p> <p><b>New M5/MAGMA Thailand Website is ready to use... You can download all Pics of the user meeting and other events right there.</b></p> <p><b><a href="http://www.m5engineering.co.th">www.m5engineering.co.th</a></b></p> <div></div>	<div></div> <p><i>This Year's MAGMA Thailand User Meeting 2015 was again a great event. Around 50 attendees from foundries, foundry suppliers and casting end users joined the meeting.</i></p> <p><i>We were glad to present the latest developments in MAGMA5.3 with our hot new topic: "Optimization". A feature that will revolutionize the foundry industry and can be used to optimize your casting processes on a whole new level.</i></p> <p><i>We had 2 User presentations:</i></p> <p><i>Asahi -Tec presented their success preventing casting defects in aluminium wheels using MAGMA5.</i></p> <p><i>KMUTT presented how they are using MAGMA5 for research on cooling on ferrous and Non Ferrous castings.</i></p> <p><i>Thank You so much for attending this years user meeting...see You next year same time same place!</i></p>

**Phonphan Meansiri (MAGMA User in Asahi-Tec) presenting her simulation on wheel**



*Asahi-Tec is using MAGMA5 for simulation of their LPDC process. Khun Phonphan Maensiri showed how she is using simulation for preventing casting defects such as porosities in their wheel manufacturing process.*

*Desirable die casting processes are characterized by casting conditions that avoid gas inclusions, porosity and cold laps but at the same time provide optimal filling characteristics and short cycle times. Economic production aims at an optimum die temperature control, a long die life, small cycle material amounts and perfectly set machine parameters. Using casting process simulation, die casters gain a deeper understanding of their processes and can adjust die design, casting parameters and runner design in such ways that castings of optimal quality can be produced in economical and robust manufacturing processes.*



*Khun Phonphan and the Asahi-Tec team did a great job in showing how they use MAGMA simulation.*

*Keep it up!!!*



### Kittisak Chanyathanyaroj (MAGMA User in KMUTT) research on cooling of Metals

*Khun Kittisak Chanyathanyaroj is using MAGMAsoft in King Mongkut University Bangmot. KMUTT is the first University in Thailand who is using an Academic License and implement casting simulation into their curriculum for foundry students!*

*Khun Kittisak Chanyathanyaroj is making his studies on the cooling behavior of ferrous and non ferrous metals.*

*His presentation showed very clear on how simulation can help to prove theories and opens the black Box to the foundry men and women*



*We thank Khun Kittisak Chanyathanyaroj for his very interesting and detailed presentation and we wish him all the best for using MAGMA in the future!*



MAGMA always focused on education to produce successful MAGMA Users. Dr. Supparerk Boontein presented KMUTT Bangmot and how KMUTT is implementing MAGMA into their curriculum for Foundry students.

Many activities are planned together with MAGMA and the university in the future. We will keep You posted on that....



**Thanks to KMUTT Team for the Anvils Aluminum casting souvenir for all the attendees!!!!**



## Important Announcement:

New M5/MAGMA Thailand Website is ready to use... You can download all Pics of the user meeting and other events right there.

**www.m5engineering.co.th**



Contact us:

### **M5 Engineering (Thailand) Ltd.**

555 / 222 Nirvana Park, Sukhumvit Rd.  
Prawet, Bangkok 10250, Thailand  
Tel/Fax: +6623288886  
Mobile: +66884911841  
E-Mail: [info@m5engineering.co.th](mailto:info@m5engineering.co.th)  
Website: [www.m5engineering.co.th](http://www.m5engineering.co.th)

**Thank You Kha**

