



Newsletter no. 6 from DAMRC

This DAMRC newsletter can be forwarded to everyone interested in the DAMRC, but you are only allowed to quote from the newsletter in agreement with Chairman Ole Mørk Lauridsen oml@damrc.com or Project Manager Klaus Bonde Ørskov kbo@damrc.com

In this DAMRC newsletter you can read about three new members joining DAMRC and how they strengthen DAMRC, some remarkable results from the first DAMRC project and about a couple of interesting events soon to come.

DAMRC establishes a strong theoretical foundation

After continuous dialogues between the Chairman of DAMRC and Rector of the Engineering College of Aarhus (IHA) Ove Poulsen, DAMRC are proud to announce that IHA has decided to become a DAMRC member.

The new collaboration is of great significance to the DAMRC, as it also results in a close collaboration with and a membership from the Aarhus School of Engineering (ASE). ASE is a partnership between the University of Aarhus (already a member of DAMRC via AU-IBT) and IHA. With IHA and ASE joining the DAMRC, we at the DAMRC see a strong continuation of the collaboration between and anchoring of the DAMRC in the academia society and hereby focusing on the future education within engineering.

Furthermore with IHA and ASE joining the DAMRC, the further availability of materials- and process experts for future projects is secured, as well as the link to the Mechanical Engineering education.

The first project brings large gains

At the end of week 41 2010 the 4th phase of the first DAMRC project was rolled out. Phase 4 had the objective of reviewing the work done so far, with the aim of cross learning from the participating companies.

During the presentation of the gained results it became quite clear that vibration analysis has a higher potential in connection to machining aluminum than steel and cast iron. In spite this fact, gains in some companies showed optimizations of milling processes when machining cast iron and steel of 10 – 20 %.

Optimizations made in connection to steel and cast iron are absolutely relevant and reveals a great potential for increased competitiveness for the participating companies.

Due to the properties of the material, even larger optimizations can be revealed when machining aluminum. At Danish Aerotech a couple of such cases occurred with the optimization of milling processes in the range of 50 %. On one sub process, machining time was reduced from 267 minutes to 138 minutes, equivalent to a reduction of 48 %.

”Industri i Verdensklasse” challenges and possibilities

On the 6th of October the Central Denmark Region held the conference ”Industri i Verdensklasse”. Focus was on the challenges and possibilities facing Danish industry.

On the workshop ”Focused R&D related to advanced manufacturing technology” it was confirmed, that one of the opportunities to Danish industry is R&D. With advanced technology and new materials Danish industrial companies will be suited to face competition both on present and new markets.

Many Danish companies are thus facing the fact, that in an international perspective they are quite small organizations –often sub-suppliers. Representatives from these ”small” companies expressed that their companies didn’t have the resources to handle collaborations with large international technology leading companies. The same thing goes for many smaller companies in connection to collaboration with R&D partnerships with Universities.

Of the five workshops held on the conference, the DAMRC Chairman Ole Lauridsen lead the workshop ”Focused R&D related to advanced manufacturing technology”. At the workshop the need for a center like the DAMRC, focusing on industry needs and with the ability to bring academia and industry together was once more emphasized.

Centres of Excellence catches good vibrations

Centres of Excellence vest (CoE – collaboration between Herningsholm Erhvervsskole og Mercantec in Viborg) has from the September 1st become a member of DAMRC. CoE is Technical colleges specially picked out to educate the most skilled technical students from all over Denmark. In CoE Herningsholm the students can receive education on the highest level in machining on equipment similar to state of the art on the shop floors of Danish companies. Herningsholm is chosen as a CoE within the field of metal processing and machining. With CoE joining the DAMRC we are now moving even closer to our goal of ”bringing knowledge into industry”.

The 14th of October 2010 CoE together with the DAMRC held an evening event hosted by Unimerco A/S. The event was an eye opener seminar focusing on vibration analysis as a way of gaining more competitiveness. The theme targeted university staff, industry representatives and employees at Herningsholm Technical College.

Participants had a chance to see how slot milling in aluminum could be optimized via vibration analysis with a reduction of machine time on more than 50 %.

Matchpoint 2010

When Business Development Center Ringkoebing Fjord the 25th of November throws the conference Matchpoint 2010 it is with the participation from the DAMRC.

DAMRC will during the day be available to companies in the Ringkoebign - Skjern area. Companies are offered a noncommittal consultation with the DAMRC to explore the possibilities of collaboration and how it might be the next step to obtain competitive edge. Furthermore companies are offered a confidential talk on whether DAMRC can solve a specific technical or optimization related challenge.

More on Matchpoint 2010, please contact Consultant Ib Christensen at Business Development Center Ringkoebing Fjord ibc@erhvervscentret.dk

Aluminum in focus in December 2010

In collaboration with Danish Technological Institute, CenSec and AluCluster DAMRC is hosting a mini seminar on the 7th of December 2010, on the use and machining of aluminum in the aero-space- defense- and space industry.

Final program is yet to come, but main themes will be aluminum as a material including a range of new alloys. Furthermore themes like surface treatments, process optimization via vibration analysis will be presented as well as the business opportunities within the three mentioned markets.

The program for this event will be ready in the middle of November 2010

Registration and deregistration of newsletter

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Med venlig hilsen

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