



### **DAMRC newsletter No. 3**

This DAMRC newsletter is expected to be send out once a month – You are allowed to forward this newsletter to everyone interested in the DAMRC, but you are only allowed to representation in agreement with Chairman Ole Mørk Lauridsen [oml@damrc.com](mailto:oml@damrc.com) or Project Manager Klaus Bonde Ørskov [kbo@damrc.com](mailto:kbo@damrc.com)

In this DAMRC newsletter you can among other things, read a little about some of the results already achieved in the center's first industrial project, the inclusion of another member of DAMRC and on how the press conference 18th. of May have resulted in a very good press coverage and a number of interesting contacts

#### **New member strengthens the industry contact.**

With effect from May 2010, the Danish Metal Workers Union in Herning has joined DAMRC, and thus shown their support to the development of DAMRC for the benefit of the complete Danish industries.

It is for several reasons a very positive outcome for DAMRC the Danish Metal has chosen to sign a membership. First of all, it is the first member which has not been directly involved as a "Founding Partner" and secondly they are a good "bridge" to the Danish metal industry.

We look forward to welcoming more members within the coming months.

If you think DAMRC can create value for your company, your geographical area, your organization or your school, do not hesitate to contact us.

Contact regarding a potential membership should be addressed to Project Manager Klaus Bonde Ørskov at the above mentioned address.

#### **The first industrial project has shown very good results already**

The 17th. of May was the official start date of the first industrial project in DAMRC. The project aims, through an analysis of frequencies and vibration during milling of metal parts, to optimize the participating companies milling processes. The project aims to achieve an overall reduction of milling time on a selected part of 30% or more.

On the project's first two days participants from the five member companies (Terma, Multicut, Danish Aerotech, Vestas and Unimerco) was introduced to vibrations and optimization using the two types of analytical equipment MetalMax and Harmonizer.

In connection with the course there were conducted tests on an aluminum part. Initially the milling parameters were 10,000 rpm. with a cutting depth of 10 mm. The machining was characterized by an unacceptably poor surface quality.

Traditionally, most of all machine operators would have lowered the rpm. or reduced depth of cut a few percent to get a better surface and remove noise from the milling process. After a few hours of training, with optimization the result however were, that the new cutting parameters were 10,700 rpm. and a cutting depth of 28 mm., representing an improvement of productivity by almost 300% while the surface quality was now meeting the quality demands.

Later that week there were reached a similar result in one of the member companies and found potential optimizations of other participants. These potential optimizations will be worked out the next couple of months.

### **Press conference gave a good response**

The 18th. of May DAMRC celebrated their official opening with a press conference followed by a reception. The Event was held at Unimerco in Sunds, Denmark and was attended by 50-60 participants from a wide range of organizations and companies.

Press coverage on and after the events have been highly satisfactory since DAMRC was exposed in television, radio, newspapers and a wide variety of Internet medias, since the press conference.

The extensive press coverage have resulted in some interesting approaches, including one from the Ministry of Foreign Affairs who is planning to promote DAMRC through an article in their magazine "Focus Denmark" in December 2010. Focus Denmark is distributed in approx. 60,000 copies to a number of foreign R&D institutions and companies.

### **New interesting R&D collaborations are evolving**

DAMRC have an ongoing dialogue with potential research and development partners. Since the last newsletter, there has been a very positive dialogue with Aalborg University and Enterprise Europe Network, which both want to become official DAMRC-cooperation partners.

In addition, there has been a successful meeting with the research association AluCluster about future cooperative opportunities, also in this matter the conclusion is, that it is not about whether there should be collaboration, but only on question on how the extend of the cooperation.

### **Registration and deregistration of newsletter**

If you receive this newsletter from a colleague and wish to register for future updates from DAMRC, simply send an email to [kbo@damrc.com](mailto:kbo@damrc.com) with the text "Sign up to DAMRC newsletter". If you receive the newsletter from us by mistake, you may also unsubscribe at the same mail with the text "Unsubscribe from DAMRC newsletter".

**Kind regards**

**Ole Mørk Lauridsen**

**Klaus Bonde Ørskov**

**Chairman**

**Project Manager**

**DAMRC**