

DAMRC newsletter - Christmas edition

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In the Christmas edition of DAMRC's newsletter you can among other things read about DAMRC's plans and goals for 2011.

2010 – Looking back

In September 2009 the 12 DAMRC Founding Partners signed a letter of intent to explore the possibilities of establishing a research and development center in Denmark. In December 2009 the initiative group was submitted a report which identified opportunities for establishing such a center. Following the report there was no doubt among the promoters, and the work to establish DAMRC was launched.

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January 1st 2010: - Assignment of a project manager and working Chairman in charge of the Centre's establishment

March 1st 2010: - Hiring of employee no. 2

April 1st 2010: - The official establishment of DAMRC

April 1st 2010: - Start of the first project - created by industry for industry

December 1st 2010: - Hiring of employee no. 3

Prospects for Vibration Analysis

DAMRC has now both hardware and knowledge to use Vibration Analysis, and in 2011 this will still create a basis for optimizations in the Danish industry. During the coming year we will disseminate knowledge of this technology to even more people - both through training of future employees in Danish companies (through the *Centres of Excellence*) - and through training of existing employees (through *AluCluster*).

DAMRC's goal is to teach the industry itself to use the Vibration Analysis Method. The center will be happy to act as consultants during the transition, but the clear aim is to push this kind of technology out to businesses so they can handle it on their own in the future.

Centers of Excellence:

<http://www.herningsholm.dk/erhvervsuddannelser/uddannelserne/centres-of-excellence>

AluCluster: <http://www.alucluster.com>



Chairman of Region Midtjylland Growth Forum and Regional Council Bent Hansen speaking at the "signing ceremony" - 1/9 2009



The first course on vibration analysis - with representatives from Danish production companies participating



Members

During 2010, we have welcomed several new members. Also in this edition of the newsletter, we can announce yet another member. Aalborg University (AAU) will join DAMRC and with the new "Department of Production and Mechanical Engineering" AAU is a very interesting DAMRC member.

With 18 members DAMRC has experienced a massive support, and this is a clear signal of confidence in DAMRC's ability to make a difference for the competitiveness of Danish industrial companies.

With a wide range of production companies, interest groups, educational institutions and public actors DAMRC is able to make a positive difference for the Danish metal industry during the coming year. To ensure this DAMRC expects to include 12 more new members in 2011.



Strategy 2011

December 1st - 2010, DAMRC's board of executives was assembled at a board meeting. On the agenda was DAMRC's strategy for 2011. The strategy was well received, and will therefore provide the practical conditions of the 2011 DAMRC activities.

To live up to DAMRC's philosophy, we have drawn up a number of goals for 2011 to ensure that DAMRC will help increasing the competitiveness of Danish industrial companies. The goals are established within the areas shown in the diagrams below. In the year 2011 the following areas will be handled with a high priority: Industry 50% (company-specific projects), Generic projects 30% (broad usable knowledge) and Education 20% (targeted the needs of the Danish industry).

The vision is a division of 30% Education, 30% generic and 40% Industrial.

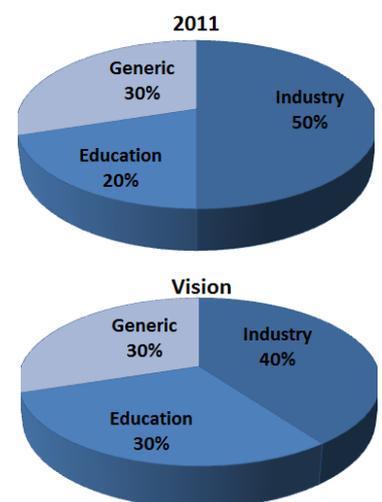
Education will, as mentioned under "Prospects for Vibration Analysis", be focused on collaboration with Centres of Excellence and AluCluster. Furthermore DAMRC will, in collaboration with IHA / ASE, launch at least one Ph.D. project and provide the technical issues for a Masters or Bachelors dissertation.

As for generic projects DAMRC will primarily dedicate its resources to two projects, of which both are in the initial phase. These projects are expected to have an extent of two to three years, and the outcome of the projects will have the possibility to benefit the Danish metal industry.

The industrial projects will include three smaller projects defined by Danish production companies. DAMRC will work with milling optimization for both

Idea

DAMRC is a research and development centre for advanced manufacturing technologies and materials that develops and transforms the latest knowledge into practical solutions in close collaboration with the universities for the benefit of Danish industrial companies' global competitiveness.



members and non members. Furthermore we are working towards an establishment of three projects in collaboration with some Danish SME's partly financed by the so-called 'Videnkupon'-system.

The activities mentioned above obviously require more resources than the three DAMRC employees and the working chairman currently possess. Therefore, part of the strategy is increase the number of employees in 2011. The first two technical talents with knowledge in machining and advanced materials are expected to be employed in February and March. Late 2011 DAMRC expect to have 6 - 7 employees.

Member Events

An important part of the strategy for 2011 is holding a series of events designed to create value for our members. The overall theme of the first 'eye-opening-event' will be: Cutting into 'hard-to-machine' materials such as titanium, inconel and carbon fiber.

More information about time, place and contents will follow in later newsletters.

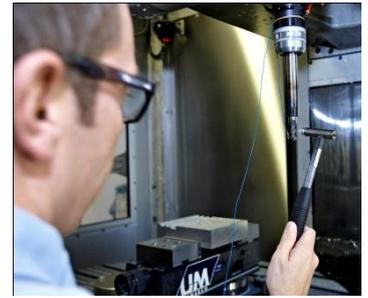
Thanks for this year

We thank the members and partners for their considerable efforts in 2010 and look forward to enhance the competitiveness of Danish industrial companies even further in 2011 in close collaboration with you. As 2010 is ticking, and a new year is announcing its arrival, the DAMRC newsletter will change appearance. We will give it a little facelift, making it even more inspiring to read. At the same time we remind you that the letter will be published every other month starting in January 2011.

Sincerely, and Merry Christmas

Ole Mørk Lauridsen
Working Chairman, DAMRC

Klaus Bonde Ørskov
Project manager, DAMRC



Vibrations analysis technician conducting "tap test"



Eric Stern, Boeing teaching DAMRC members new advanced machining technologies



Example of advanced manufacturing – a complex geometry

