

# DAMRC Newsletter No. 5 / 2013



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*Should you want to learn more about project collaboration with the DAMRC and what the DAMRC can do for you and your business you are most welcome to contact Klaus Bonde Ørskov - [kbo@damrc.com](mailto:kbo@damrc.com)*

*The DAMRC wishes all the members and partners Merry Christmas and Happy New Year.*



## Content

*In this newsletter you can read about the work of the DAMRC during the year 2013, an inspiring technology event January 17<sup>th</sup> 2014 and a new exiting industrial member of the DAMRC. Furthermore, both on European and regional level, there is focus on securing jobs through the transfer of market-oriented technology from research institutions to production companies.*

## The past year

The year 2013 was undoubtedly an epoch-making year for the DAMRC. During late winter and spring, it was decided to establish a physical DAMRC Technology Center, with machines, technicians and experts for the development and optimization of production processes. Almost simultaneously with this decision, the chairman of the Board of Directors was changed.

The new chairman - Søren Rossen Bech – worked quickly. The plan for the Technology Center became real with the decision to lease facilities of 1100 sqm. From New Year 2014, all DAMRC's activities take place from Sandagervej 10, 7400 Herning.

During the year 2013, the DAMRC was approved as coordinator at a FP7 EU project with a total budget of approx. 2 million €. Concerning projects, the year also featured two major projects for the Central Denmark Region and involvement in more than 10 industrial projects.



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The many projects, the DAMRC has had in the past year, combined with a number of new employees, have resulted in a further increase in the network of the DAMRC. New members have joined and new knowledge institutions have become part of DAMRC's collaborative interface.

The high activity level in 2013 has resulted in a growth rate of around 50% for the DAMRC, both in terms of sales and measured by the numbers of employees. The first forecasts for 2014 suggest continuously growth at the same level, and the DAMRC is looking forward to a new year with even more new colleagues and exciting industrial projects.

### Focus on use of technology

The use of new technology has recently found its way into several Danish companies. In cooperation with the DAMRC, several companies have started feasibility studies on the optimization of production processes.

Through a dynamic mechanical test parameters, such as depth of cut and spindle speed, are analyzed. After analyzing the collected processing data, the machining process is optimized. This ensures maximum utilization of the potential output of the machine in terms of quality and overall production costs.

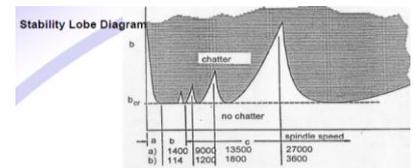
DAMRC welcomes the significant increase in interest and encourages more companies to contact us for cooperation. Contact Erik Kristensen on telephone number 2028 3452 or email: [ekr@damrc.com](mailto:ekr@damrc.com)

### New member- ECM Industries

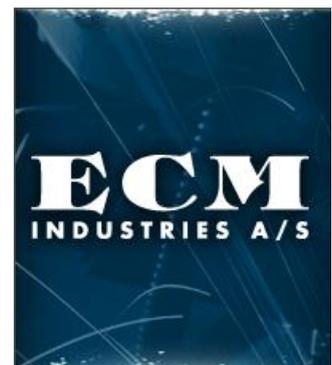
Following a successful collaboration with the DAMRC about the above mentioned production optimization of milling processes ECM Industries has chosen to join the DAMRC as member.

ECM Industries is a medium-sized manufacturing company who, among other things, is supplier of milling and turning parts in aluminum and various steel alloys. The company resides near Egtved in the southwestern part of the municipality of Vejle.

ECM Industries has during the first collaborative project shown, that they are very open minded to new technologies and methodologies, and thus the DAMRC is looking forward to include ECM Industries in some of the new technology projects around rotary optimization, new cooling methods and environmentally friendly stress relief. All projects to be initiated in the year to come.



Stability lobe diagram based on data collected during the applied test.



The DAMRC welcomes ECM Industries as a new member



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## Visit at AMRC, December 19<sup>th</sup> 2013

A small industrial delegation, consisting of DAMRC's employees as well as universities and companies from the DAMRC members, pays on December 19<sup>th</sup> a visit to AMRC's facilities in Sheffield. The visit to the UK includes a possibility to visualize how the upcoming DAMRC Technology Center for development and optimization of industrial processes will operate.

The purpose of the visit is also to develop the long-term technology plan for the DAMRC in cooperation with the AMRC from Sheffield University. With the assistance of AMRC, DAMRC's Technology Roadmap 2020 will be completed, so the best knowledge and the latest technologies in production processes will be brought into to the Danish industry.

During the day-long meeting, the DAMRC will also coordinate future actions with the AMRC and define new joint projects between the two organizations. The visit to Sheffield will contribute to making the future foundation of the DAMRC as solid as possible in order to further develop the Danish manufacturing industry's possibilities and competitiveness.

## DAMRC on the cutting edge of the European vision

Once again, the DAMRC is ahead of the general trend. This time in relation to the new EU vision Horizon 2020, which will be implemented from January 1<sup>st</sup> 2014. The core elements of Horizon 2020: "to boost growth and strengthen competitiveness through collaboration between science and industry," is as very close to the mission of the DAMRC.

Horizon 2020 is focusing on bringing knowledge from universities and other knowledge institutions into the production industry - specifically targeting SMEs. The theme, "Industrial Leadership" is about financing market-oriented innovation and applied research and activities in order to help creating jobs and growth in Denmark and Europe.

DAMRC has already accumulated high experience in being the link between knowledge institutions and manufacturing companies, as the DAMRC has been project manager and facilitator in several EU-funded projects in Danish small and medium sized enterprises with the participation of Danish and international researchers . Already, inquiries have been made from international knowledge institutions, such as marGUNE (E), Fraunhofer (D) and AMRC (UK), concerning collaborating innovation projects with substantial economic opportunities for Danish industrial companies.



AMRC, The University Of Sheffield with Boeing  
Factory of the Future



More information concerning Horizon 2020 you may find at the homepage of the Ministry of Science, Innovation and Higher Education

<http://fivu.dk/en/research-and-innovation/funding-programmes-for-research-and-innovation/eu-and-international-funding-programmes/eu-and-international/>



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## New technological trends

The collaborating between the DAMRC and the municipality of Vejle and Technical College of Vejle has resulted in a joint event at Technical College of Vejle on January 17<sup>th</sup> 2014.

The theme is "Technology Trends" and the DAMRC and Technical College of Vejle have made an exciting program of speakers about technology trends in the metalworking industry, composites and Additive Manufacturing. Additionally, there will be a presentation on innovation involving foreign knowledge partners in a medium-sized Danish manufacturing company.

On the same day, the new Apps from DAMRC will be presented. The Apps are developed in collaboration with students from Technical College of Vejle for usage in industry for optimization and for teaching students in vocational schools. The program takes place from 10.00 AM-2.00 PM. Are you interested in participating in this exciting event, please register by The Technical College of Vejle, Associate Professor and Head of development Henrik Juhl Kristensen [hjk@sde.dk](mailto:hjk@sde.dk) or DAMRC, Charlotte Ilvig on telephone number : 20 30 45 99 or by mail: [chi@damrc.com](mailto:chi@damrc.com). See the program here on the right.



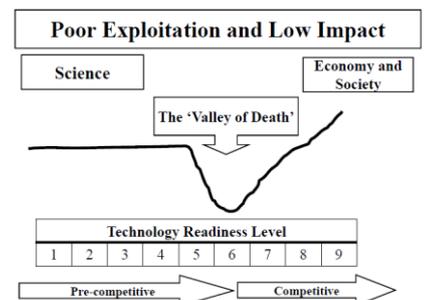
## Industrial Incubator.

Central Denmark Region has initiated a focus on ensuring the future of manufacturing jobs. One of the initiatives is the elaboration of a catalogue of concepts, which can ensure manufacturing companies in the region.

5 municipalities in the region define these concepts to the benefit of all companies in Central Denmark Region. Herning is one of the five municipalities with the DAMRC as the executive power.

Amongst other things, the DAMRC are focusing on the improvement of the process of searching for new technologies and implementation of these technologies in the Danish manufacturing companies. The DAMRC has over the years built substantial expertise to operate in the field that may arise between research and production companies.

This field is usually described as the "Valley of Death". Too often, new developed processes and products are lost during transfer from research to production.



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By participating in this project, the DAMRC develops further skills in knowledge collaboration between academic institutions and the manufacturing industry for the benefit of the Danish competitiveness.

A significant part of the project is to test new methods for knowledge collaboration in practice. This means that the DAMRC in 2014 will be looking for manufacturing companies and universities, who are interested in new technological processes related to the metalworking industry. If you would like to learn more about the opportunities for your business, please contact Charlotte Ilvig by mail: [chi@damrc.com](mailto:chi@damrc.com) or phone +45 20 30 45 99

### Thanks to the Business Council

After 4 years sharing office facilities with the Business Council for Herning and Ikast-Brandø the DAMRC is now moving to new facilities and would like to use the opportunity to thank all from the Business Council for pleasant hospitality and good collegial interaction.



### New address and new phone number from January 1st 2014



Entrance

DAMRC F.M.B.A.  
Sandagervej 10  
7400 Herning  
Tlf.: 21 54 50 54.

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Kind regards

Klaus Bonde Ørskov  
General Manager, CEO DAMRC