

## DAMRC Newsletter - 3 / 2012

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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)*

### Content

*In this newsletter you can read about a couple of new interesting DAMRC projects, which gives DAMRC opportunity to cooperate with several international top scientists. Furthermore you can also read about a couple of the DAMRC courses – one in optimization of aluminum machining and another in marching of hard alloys – you can also meet a new face in the DAMRC.*

### New Composite Materials – part 2

In the DAMRC newsletter no. 1 / 2012 we briefly described, that the DAMRC in collaboration with the company HeliScandia is carrying out a project, which will enable the company to use new composite materials in the revolutionary “helicopter concept” also called the Autonomic Rotor Wing. Apart from contributing with project management and specific knowledge about thermal barrier coatings, the DAMRC has also made contact to several international lead scientists. Based on this it was possible to make a development workshop in June with the purpose of bringing the company closer to the wanted increase of use of high temperature materials in the concept. The workshop had participation of scientists from the Missouri University Science & Technology – USA, Deutsches Zentrum für Luft- und Raumfahrt - Germany and University Ålborg - Denmark. The end result of the workshop is not yet available, however the indications are, that the company may be able to produce the concept with materials, that allows a significant increased temperature and thereby increased performance.



*The workshop participants after 3 days of hard work by the proof of concept model of the Autonomic Rotor Wing*



### Nyt Ansigt i DAMRC

It is with great pleasure that the DAMRC can welcome a new colleague

The DAMRC has in august employed Charlotte F. Ilvig as project consultant. Charlotte will among others contribute in the development projects – communication and writing funding applications will be some of the other interesting areas that Charlotte will be working on. Charlotte adds the



*DAMRC welcomes Charlotte.*



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DAMRC a solid knowledge from the production industry and has earlier been employed within project management – from development to production - within the textile industry production of synthetic fibers, where certain parallels may be drawn to the carbon fiber production – the fibers were among others use for original equipment in the automotive industry. Charlotte is educated project manager and is intended a role as project manager on selected development projects within the DAMRC.

The DAMRC welcomes Charlotte onboard.

## Course – Machining hart alloys

In September the DAMRC had the pleasure of hosting an exclusive course in machining hard alloys together with the Centers of Excellence and the ARMC. At the course the focus was on materials such as titanium, carbon fiber and nickel alloys (i.e. Hastelloy, Inconel). The course was free and exclusively offered to the DAMRC members in cooperation with Herningsholm Centers of Excellence and the partners of the technical school. The course was attended by 15 engineers and industrial technicians. The teacher of the course was a machining expert from the “sister center” to the DAMRC the Sheffield University, AMRC with Boeing, who are the world leaders within this area.

## Course – ALU VIB

DAMRC has the pleasure of hosting yet another interesting course within optimization of processing of aluminum – again in cooperation with Kyocera Unimerco and AluCluster.

At the course the world leading processing experts from Sheffield University AMRC with Boeing will demonstrate and provide the participants insight to vibration analysis during milling. This technology can be used to optimize the milling process with great reductions in processing time as a result. Furthermore the participants will gain a thorough instruction to aluminum and the fields of application of different alloys.

The course is intended for operators, planners and foremen, who are working with CNC cutters. PTA workers, engineers and constructors in productions companies, working with construction and machining /processing may also participate.

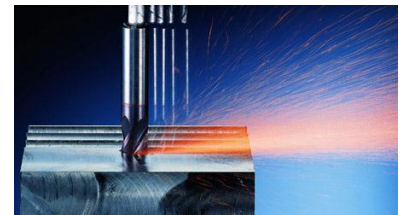
The course takes place the 29th and 30rd October at Kyocera Unimerco, Sands. You can get more information at:

[http://damrc.com/about\\_us\\_news.html](http://damrc.com/about_us_news.html)

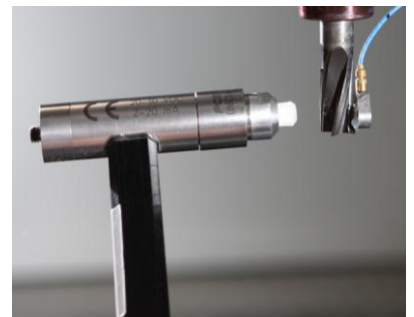
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*At the course practical examples of milling in Inconel and Titanium are shown.*



*“Tap-test” of a cutter – a part of the vibration analysis.*



*Through practical examples on the machine tool the participants at the course will among others gain insight into, how analysis of the milling process can lead to 15- 45 % optimization.*

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## NIMP – phase 2 funding

In the DAMRC's news letter from October 2011 a new development project was presented to our readers. A project that DAMRC started in cooperation with a development company based in Herning. With a budget of D.kr. 100.000 (supported with D.kr. 50.000 by "Genvej til Ny Viden" - a funding program through Aarhus University - CEI) the preliminary analysis were carried out – the analysis were to explain the potential of the company's newly developed concept. The result showed unambiguously the potential of the new concept, why DAMRC and the company in collaboration applied "Genvej til Ny Viden" - a funding program through Aarhus University - CEI for another D.kr. 500.000 in order to start a proper innovation project.

The funding was granted and DAMRC has in cooperation with the company started the innovation project – running to middle of 2013 with a total budget of approx. D.kr. 1.000.000. The role for the DAMRC in the project is among others to identify scientists with the specific research knowledge, who can contribute to the success of this innovation project. The DAMRC has so far established cooperation with two different scientists from Cambridge University, England and Twente University, Holland. The scientists will among others participate in a workshop together with the company during winter of 2012.

## Central Denmark Region – focus on production

In recognition of the fact, that the production industry in Denmark is bleeding, the Central Denmark Region Growth Forum has formed a pre-project group, which main task is to give input to which current but also long termed initiatives can be taken in order to improve the conditions to make Central Denmark Region among the best places in Europe to operate production enterprises and export.

Since the year of 2008, where the financial crisis started, the Central Denmark Region has lost 29.000 industrial working places – corresponding to each fourth working place – it has now been realized within the political area which important part the production industry is, as well as terms of employment as export. The production industry accounts for about 2/3 of the export in the region. The pre-project group – apart from DAMRC – counts representatives from the municipality, business actor, educational institutions and ministries.



*Info about Genvej til Ny Viden –  
<http://genvejtilnyviden.au.dk/>  
A funding program administrated  
by Aarhus Universitet CEI*

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The group has jointly been given the assignment to secure, that the necessary activities – especially targeting the production industry - will be carried out in connection with the regional strategy for business development for 2010 – 2020. .

*“The Regional Growth Forum will decide, where the financial importance will be in respect of the regional business development strategy. Thus it is especially positively, that the terms for the production industry are now on the agenda in the growth forum. The work of the DAMRC in order to strengthen the global competitiveness within the production industry is now directly identical with the strategic aim of the Growth Forum. Therefore I am convinced that the increased political attention for production will lead to increased competitiveness in the production industry and thereby maintaining and creating new workplaces” says the director of DAMRC Klaus Ørskov.*



*DAMRCs CEO Klaus Ørskov is welcoming the increased focus on the manufacturing industry in the Central Denmark Region.*

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Kind regards

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General Manager, CEO DAMRC



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