

DAMRC NEWSLETTER no. 4 - 2011

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 newsletter you can among other things read about some of DAMRCs exciting networking activities and how they contribute to DAMRCs R&D projects. In this Newsletter we also welcome our new colleague José. Furthermore you can read about a new DAMRC project as well as how the DAMRC works to improve the conditions for Danish manufacturing industry.

Strengthened DAMRC Team

During the spring of 2011, three engineering students worked on the project "Vibrations in drilling process." One of the three students now starts in an internship at the DAMRC. The internship is part of the student named Jose Angel Pelegays undergraduate education as a mechanical engineer.

With José affiliated to the DAMRC project "VIBO - Vibration during Drilling" at least half a year, it is now possible to put even more focus on the exciting DAMRC project and drive it forward.

We welcome Jose into the DAMRC and look forward to an exciting collaboration.

Alongside we will take this opportunity to point out that the DAMRC is still looking for new colleagues with a strong academic background in manufacturing and process industries.

New Composite Material

DAMRC is now approved as a "facilitator" on a "phase 1 course" in Aarhus University's knowledge transfer program called "Shortcut to New Knowledge".

Shortcut to New Knowledge is about developing the region's small-and medium-sized enterprises by having researchers working with companies to create new knowledge and growth.

In the first DAMRC project within this framework the DAMRC is helping a Danish development company "HeliScandia" identifying and selecting the right research and development team to ensure that the company's product can be commercialized. DAMRC and HeliScandia have received 50,000 DKK in support from the "Shortcut to New Knowledge" program,



José joins the DAMRC with previous machining experience



More info on "Shortcut to New Knowledge" – <http://genvejtilynviden.au.dk/>

HeliScandia ApS
Helicopter technology



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and the project's initial phase will be completed around October 2011. The project's main theme is new advanced materials with special emphasis on composite materials for ultrahigh temperature applications.

If you're interested in learning more about what the DAMRC can do for your business within advanced production technology and new materials, please contact:

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Broadening of the DAMRC Network

On 26th and 27th of May 2011 the DAMRC attended the NGP Cluster Conference hosted by the Danish Agency for Science Technology and Innovation, Ministry of Science Technology and Innovation.

Besides the many interesting speeches on cluster formation and operation of industrial clusters, one of the main aims of the conference was to give attendees the possibility of networking with Nordic, German and Polish clusters. As for the DAMRC the conference amongst others paved the way for collaborations with two different German composite clusters.

Following discussions at the conference, the DAMRC in week 26 visited one of these clusters, CFK Valley Stade, 40 km west of Hamburg. During the visit, a meeting between "Fraunhofer IFAM" and the DAMRC was held in order to discuss the possibilities of establishing future collaborations.

Regarding the second German contact from the conference "Bayern Innovative" there is currently a dialogue concerning their participation in a new DAMRC project within composites and on a number of other opportunities for cooperation.

Combined with the DAMRC membership of the Boeing Global Net the new German contacts contributes to the strengthening of the international network of the DAMRC.

A Strong Global Family

This September the DAMRC represented by Chairman Ole Mørk Lauridsen, project manager Klaus Bonde Ørskov and board member Andreas Bürger, will be participating in the annual Boeing Global Net summit, together with 19 other Boeing affiliated knowledge and R&D centers.

The annual Boeing Global Net summit will give the DAMRC delegation a chance to discuss project and development partnerships with representatives from DAMRCs international sister organizations.

The DAMRC expect that participation in the Boeing Global Net summit will result in several new partnerships that can contribute to progress in the



GlobalNet-summit is this year in Singapore - with participants from 15 different nationalities



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ongoing DAMRC projects, and it is expected that a number of new project ideas are created.

Danish Industry is suffering

Since the millennium about every 4th job in the manufacturing industry has disappeared. Today, the manufacturing sector only accounts for some 16% of the total Danish employment. This is not an indication of the sector's declining importance to Danish society, on the contrary. Despite the sharp decline in industrial employment, this sector is still the source to more than half of the Danish export.

Several organizations private as well as public have recently started to focus on the enormous challenges that faces Danish manufacturing industry. Recently, the Confederation of Danish Industry, DI and CO-industri joined forces with each other in an attempt to produce a contingency plan to strengthen the suffering Danish manufacturing industry. The plan focuses on 10 main areas of improvement, targeting businesses, politicians, educational institutions and the population.

Several of the 10 main areas of concern are similar to the activities already carried out by the DAMRC. Some of the highlights are:

- Strengthening of vocational and technical education

The DAMRC aims to strengthen the content on such educational programs with the implementation of latest knowledge of advanced manufacturing technology demanded by industry into study programs. As an example the DAMRC already held a course in advanced manufacturing technology to inspire teachers and educators from "Herningsholm Erhvervsskole"(tech. college) as well as Herningsholm Centres of Excellence is a member of DAMRC.

- More people with higher education

Do all Danes have to enroll themselves in a university? It is not for the DAMRC to decide. But the DAMRC strives to strengthen the Danish universities and Engineering Schools academic material within the field of "Mechanical Engineering". Simultaneously the DAMRC is offering courses that target engineers in manufacturing companies, to ensure ongoing education for Danish engineers.

- Attracting foreign specialists

DAMRC have in relation to training of Danish industrial workers attracted 9 more than 10 international experts with either masters or doctoral degrees, primarily in machining. In addition, the DAMRC have been collaborating on student projects with students from countries such as



Engineering students Joaquin C. Garcia (ESP) og Sonyang Huang (CN) in collaboration with machine operator Jan Møller (DK) conducting laboratory test as part of a DAMRC project.



Senior Engineer John Selvan (ENG) and optimization technician Svend Andersen (DK), implementing new manufacturing technology in a Danish company.



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Spain, Italy, Lithuania, Ukraine, China and Latvia at the bachelor and master level.

DAMRC expects to attract more foreign experts for training and education of Danish industry employees, as well as the DAMRC within 10 years expects to hire at least 25 foreign specialists with masters or doctoral degrees.

- More research into the production technology

The main focus of the DAMRC is research and development, and implementation of new advanced manufacturing technology in the Danish industry. More DAMRC is therefore more of this.

- Increased knowledge-proliferation

DAMRC strives to strengthen the entire Danish manufacturing industry, with particular focus on machining. Knowledge is spread through collaboration with educational institutions in the form of B.Sc., M.Sc. and Ph.D. projects, as well as through courses in the usage of new technology for industrial workers. The DAMRC also targets its knowledge dissemination activities directly to business in the manufacturing industry.

The DAMRC is "industry driven", identifying and formulating the problems that manufacturing companies share. It gives a stronger collaboration with universities and knowledge centers and means that all DAMRC activity is based on the needs and wishes defined by the industry itself.

The DAMRC will continue its work on strengthening its activities - for the benefit of the Danish manufacturing industry. With the increased awareness in society at the core areas of the DAMRC, a rising demand for the skills and services of the DAMRC is expected.

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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 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
Chairman, DAMRC

Klaus Bonde Ørskov
Manager, DAMRC



Morgan (ENG) og Eric Stem (DS) teaching Danish technicians and engineers how to use advanced machining technology.



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