2013 was another busy year for our department where we had to run fast in order to keep up with the growth that we continue to experience in terms of number of students, teaching activities and externally funded projects.

During the year, we welcomed several new employees and we reorganized our internal structure as we were joined by the Traffic Research Group who will form a new division and add another branch to our research and teaching areas. Along with this, the Division of Food+Design will be incorporated into the other divisions.

We have also dedicated a lot of time to our moving plans to the main campus. I am very excited about the current plans where our new building will be a living laboratory that communicates how and with what we are working. The planning will continue next year when a temporary move to a new location will also be high on the agenda.

It is no secret that 2013 proved to be a financially challenging year for Aalborg University and so I am very proud of the fact that our department will be leaving 2013 with a satisfactory economic result. I am quite confident that this will continue in 2014.

Peter Frigaard
Head of department
MEET THE MANAGEMENT

Head of department
Peter Frigaard
pf@civil.aau.dk
+45 9940 8479

Head of secretariat
Pernille Bisgaard Pedersen
pbp@civil.aau.dk
+45 9940 8484

Head of laboratories
Benjaminn Nordahl Nielsen
bnn@civil.aau.dk
+45 9940 8459

Head of division
Architectural Engineering
Kjeld Svidt
ks@civil.aau.dk
+45 9940 8546

Head of division
Food+Design
Anna Marie Fisker
amf@civil.aau.dk
+ 45 9940 9911

Head of division
Structures, Materials and Geotechnics
Lars Damkilde
lda@civil.aau.dk
+45 9940 7648

Head of division
Water & Soil
Morten Lauge Pedersen
mlp@civil.aau.dk
+45 9940 8477
The Department of Civil Engineering focuses on research concentrated on developing and impacting the building sector in the future. Research and teaching are conducted in areas which centre on understanding environmental causality and planning people’s physical environment. We undertake contractual research projects for government institutions as well as private companies.

Regarding both student and research projects, we are widely experienced in collaborating with external partners. We mainly collaborate with companies within the building and construction sector, and we have a profound knowledge of the demands and legislation within this area.

New projects and co-operations are always welcome as new thoughts and ideas are best developed through dialogue!
DIVISION OF ARCHITECTURAL ENGINEERING

Research field
We work with research and education in analysis, design, construction and operation of engineering systems for commercial, industrial and institutional facilities. Our main research areas are energy-efficient building design, indoor environment and building informatics.

Research groups
- Building Informatics
- Indoor Environmental Engineering
- Strategic Research Centre on Zero Energy Buildings (ZEB)

HEAD OF DIVISION
Kjeld Svidt
E-mail: ks@civil.aau.dk
Phone: 9940 8546
DIVISION OF FOOD+DESIGN

Research field
We work with a holistic and multidisciplinary understanding of design and architecture, focusing specifically on food-related research and projects and classical architectural research. Our Food+Design research and development projects are primarily focused on core areas such as “experience” and “health”, whereas the core research in architecture originates from architectural theory, history and praxis.

Research groups
• Architecture & Interior
• Center for Food Science, Design and Experience

HEAD OF DIVISION
Anna Marie Fisker
E-mail: amf@civil.aau.dk
Phone: 9940 9911
DIVISION OF STRUCTURES, MATERIALS AND GEOTECHNICS

Research field
Our research field revolves around both theoretical and numerical modelling and experimental verification within the field of structural mechanics, structural materials and geotechnics.

Research groups
• Advanced Structural Engineering
  • Danish Centre for Risk and Safety Management (RISK)
  • Innovative Structures
  • Offshore Foundations

HEAD OF DIVISION
Lars Damkilde
E-mail: lda@civil.aau.dk
Phone: 9940 7648
DIVISION OF WATER & SOIL

Research field
Our research focuses on several areas including uncertainty modelling, reliability assessment and risk analysis of structures. Another major research area is modelling hydrological processes in urban areas and chemical processes in sewage systems and drinking water supply systems along with hydraulics in aquatic ecosystems.

Research groups
• Coastal Engineering
• Geotechnical Engineering
  • Physical Geography
• Reliability and Risk Analysis
• Structural Dynamics
• Urban Water and Environment
  • Wave Energy

HEAD OF DIVISION
Morten Lauge Pedersen
E-mail: mlp@civil.aau.dk
Phone: 9940 8477
We are proud of the fact that our researchers at the Department of Civil Engineering are very productive individuals who produce a large amount of research publications each year. Below is the number of research publications that we have produced in the last couple of years. All of our research is registered in the Research Database of Aalborg University (VBN). In VBN, you can find research publications, research projects, activities, press clippings and more.

**RESEARCH PUBLICATIONS**

<table>
<thead>
<tr>
<th>Year</th>
<th>Publications</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
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<td>2011</td>
<td>349</td>
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<td>2012</td>
<td>334</td>
</tr>
<tr>
<td>2013</td>
<td>301</td>
</tr>
</tbody>
</table>

*The figures should be accepted with caution as they will typically increase as reporting is carried out continuously, including previous years.*
OUR LABORATORIES

Our laboratories play a major role in our research. Numerous experiments are carried out in our laboratories, which offer the best equipment along with a knowledgeable staff.

While some equipment can be adjusted for an experiment, other equipment can be built specifically for a project or task.

The laboratories at the Department of Civil Engineering
• Concrete Research
• Geotechnical Engineering
• Hydraulics and Coastal engineering
• Indoor Environmental Engineering
  • Physical Geography
  • Structural Research

HEAD OF LABORATORIES
Benjaminn Nordahl Nielsen
E-mail: bnn@civil.aau.dk
Phone: 9940 8459
OUR PHD PROGRAMME

The PhD programme constitutes an important part of the research done at the department. During the three-year duration of the programme, the PhD student will take part in courses and teaching. The research project will culminate in a PhD thesis, which will be defended in public by the PhD student.

Another branch of the programme is the Industrial PhD programme. Here, the student will be employed at a company where the research will have its origin so working hours are divided between the company and the department.

In 2013, the total of enrolled PhD students was 53.
FINISHED PHD STUDENTS IN 2013

OUR TEACHING

Besides from our research staff, 15 % of the teaching is given by external partners. We emphasise that our students come into contact with the surrounding world via e.g. guest lectures or actual courses held by co-operation partners.

This not only creates valuable bonds between our students and potential future employers; it also facilitates knowledge sharing at a high level between the academic universe and industry to the benefit of society. You can find information about the study programmes and courses in Aalborg University’s studyguide.

Graduates from the Study Board of Civil Engineering

<table>
<thead>
<tr>
<th></th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor degree</td>
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<tr>
<td>Master’s degree</td>
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<td>104</td>
<td>121</td>
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</tr>
<tr>
<td>In total</td>
<td>154</td>
<td>184</td>
<td>206</td>
<td>179</td>
</tr>
</tbody>
</table>
**2013 HIGHLIGHTS**

**HONORARY PROFESSOR**

In April, professor Jie Li from the Tongji University, Shanghai, China was given the honorary degree Dr.techn.h.c. by Aalborg University.

**RESEARCH AWARDS**

SEMC 2013 Young Researcher Fellowship Awards:
- Søren Madsen, *Alternative shape of suction caisson to reduce risk of buckling under high pressure*
- Emil Sørensen, *Numerical implementation of the Hoek-Brown material model with strain hardening*

WEFTEC 2013 Harrison Prescott Eddy Wastewater Principles/Processes Medal:
- Jes Vollertsen and Asbjørn Haaning Nielsen, *Effect of Sewer Headspace Air-Flow on Hydrogen Sulfide Removal by Corroding Concrete Surfaces*

**ANNIVERSARY**

Poul Henning Kirkegaard, 25 years
Sven Krabbenhøft, 25 years

**CONFERENCE**

10th European Wave and Tidal Energy Conference Series (EWTEC) 2013
CONTACT

DEPARTMENT OF CIVIL ENGINEERING

Aalborg University
Sohngaardsholmsvej 57
DK-9000 Aalborg
E-mail: civil@civil.aau.dk
Phone: 9940 8484

Web: byggeri.aau.dk or civil.aau.dk