Aalborg Centre for Problem Based Learning in Engineering Science and Sustainability under the auspices of UNESCO
Decided by UNESCO General Conference, November 2013. 
Launched 26 May 2014
Mission

1) to create a **global society** of practitioners, researchers, experts and institutions from developing and developed economies within the field of Problem Based and Project Based Learning (PBL) in Engineering and Science Education and Sustainability;

2) to establish **international research and doctoral training** on PBL and sustainability in Engineering and Science Education;

3) to provide **global formal education and training** for academic staff and students and to disseminate and exchange knowledge and support among society members in terms of how to change engineering and science education for sustainable development at the national, regional and international levels;

4) outreach to institutions and schools for attracting students to engineering and science and give HE institutions and governments open access to a body of knowledge, education, training and other resources in order to facilitate PBL and Sustainability in Engineering and Science Education.
VIEW INFORMATION ABOUT THE OFFICIAL LAUNCH OF THE CENTRE HERE

Welcome to the website of the Aalborg Centre for Problem Based Learning in Engineering Science and Sustainability under the auspices of UNESCO.

26.05.2014 at 02.00 PM - 04.00 PM
Organisation

Faculty of Engineering and Science - Aalborg University

Advisory board

Consultative committee

Global Network

Management committee
From UNESCO Chair in PBL – and the new Aalborg Centre - what is new?

Problem and project based learning

PBL

Engineering Education Research EER

Education for Sustainability ESD
PBL

Global network

Research

Education

Outreach

partnership

partnership

partnership
Global network

• International Research Symposium on PBL
• Visitors workshops
• Joint seminars
• Webinars

• Online resources:
  – Videos
  – Articles, reports, core publications

• PBL ambassadors (experienced PBL practitioners)
• Formal agreements
Special research projects

• PBL variation across subject areas
• Engineering competences
• Strategies for ESD implementation
• Assessment
• Faculty development
Research training

• Research training in PBL, EER and ESD

• Special training initiative for all enrolled PhD students in the Doctoral School at Faculty of Engineering and Science on PBL and sustainability - 10 ECTS certificate

• Priority to raise funding for PhD training
Education and training

• Master in Problem Based Learning – an online and highly interactive e-Learning program for faculty staff
• Consultancy visits, workshops or capacity building courses
• Workshops for visitors held twice a year in Aalborg

• Summerschools and workshops will be held with a regional focus, focussing on development within a particular region, such as Latin America, Asia, Africa and Eastern Europe

• Internal pedagogical courses, short courses or special seminars run by international experts
Development of sustainability training

• AAU profile for existing master programs within sustainability and possible funding activities for scholarships.

• Initiating implementation and development of sustainability in existing programs and by using teaching in area of PBL and STS in the first year program as a platform. This will involve head of study boards and school leaders.

• Participation in the general sustainable campus activities at AAU.
# Master Program in Problem Based Learning

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<th>SEMESTER</th>
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<th>COURSES</th>
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| Semester 1: Development of teaching competences (15 ECTS) | Teaching portfolio | • Teaching and learning theories  
• Collaborative learning skills and scientific writing |
| Semester 2: PBL models and principles (15 ECTS) | Design and planning of a PBL module | • PBL models and curriculum development  
• Facilitation skills and teaching methods for active learning |
| Semester 3: Management of change and evaluation (15 ECTS) | Implementation of change | • Management of change to PBL  
• Research methods for educational evaluation |
| Semester 4: Master’s thesis (15 ECTS) | Master’s thesis | |
Outreach

• Initiating PBL and sustainability in primary and secondary school and high school regionally

• Establishment of closer collaboration with institutions and companies in the Aalborg University region
The Obel Family Foundation has sponsored a UNESCO professor to lead the centre

The Aalborg Centre invites for other partners and sponsorships
Thank you very much