

Agenda for 1st week of staff Mobility (October 9-13, 2017)

October 9

13:00-17:00

Scenario methods seminar (group work in the Research methodology course)

October 10

13:00-15:00

Buildings and districts (Marco Molinari's lecture in the Smart cities course)

15.00 – 17.00

Team work

October 11

13:00-15:00

Workshop D: Academic writing

Course: LH215V Learning for Sustainable Development (in Kista campus)

October 12

08:00-10:00

Empowered citizens & shared economy (Karin Bradley's lecture in the Smart cities course)

13:00-16:00

Intermediate project review in the Smart cities course

October 13

09:00-12:00

PhD dissertation defense



Enhancing Engineering Education

**Venue KTH Library building, room Salongen, unless otherwise stated.
Address: Osquars backe 31.**

Monday 16 October		
09.15 – 12.00	Introductions: <ul style="list-style-type: none"> ▪ How this week will work ▪ Participants and facilitators ▪ Introduction to Swedish Higher Education ▪ Education Management and Development ▪ Faculty Development in Sweden 	AKH, MB
12.00	Lunch Will be served in conference area.	
13.15 – 16.00	CDIO – the Idea, Methodology and Community CDIO is explained from three perspectives. First it is an idea regarding what engineering students should learn and why. It is also a methodology for curriculum and course development. Finally, the CDIO Initiative comprises over 130 universities (see www.cdio.org) and is a dynamic community for engineering educators.	KE
17.00 - 19.00	Welcome reception In KTH President office building. Venue Brinellvägen 8 11th floor	

Tuesday 17 October		
09.15 – 12.30	Integration of sustainable development in the educational programs at KTH will be illustrated from several perspectives. We will describe the different processes conducted at KTH, including various pedagogical tools for course design, teaching and examination as well as student engagement. We will also discuss how different course contents can relate to the Sustainable Development Goals.	ES, AR
12.30	Lunch Will be served in conference area.	
13.30 – 16.00	Workshop: level of integration Characterization of the level of integration of sustainable development in engineering educational programs and/or correlated courses	ES, AR

Wednesday 18 October		
09.15 – 12.00	Visiting a program Strengthening the program perspective is a key feature of engineering education at KTH and in the CDIO approach. The principle is to develop each course to have a specific function in the program. The strategy is to make the contribution of each course explicit, in relation to program goals. Thus, much course development starts from the needs of the program. In this curriculum model, the program leadership is key. We visit a program and make an in-depth investigation to its program design and lessons learned from the leadership.	HH
12.10 – 12.50	Lunch Concert – Virtuosi di Musica (optional) Performance by students from Lilla Akademien. In Sing-Sing building, Lindstedtsvägen 30 Lunchbox can be picked up to bring to the concert.	
13.15 – 16.00	The Teaching Trick – How to improve student learning without spending more time teaching The key principle here is that teachers should spend more of their time doing things that lead to high quality learning, and less time on such things that do not lead to learning. Concrete examples will be used to illustrate the principle, challenge old ways of thinking and question some taken-for-granted practices in education.	KE

Thursday 19 October		
09.15 – 12.30	How to improve student learning in lectures – Peer instruction Peer Instruction, a method that turns lectures into vivid interactive discussion sessions, is introduced, demonstrated and analyzed from a learning perspective. Different technical solutions to implement the method are demonstrated, including low-tech, no-cost alternatives. Workshop in KTH:s new Building for teaching. Venue Brinellvägen 28A second floor, Room U21.	FL
12.30 – 13.30	Lunch Can be picked up at Stories in Library building. Use the ticket attached.	
14.00 – 16.00	Workshop: Strategies for change This workshop aims to develop support for implementing changes in teaching and learning on the course level, and for developing educational programs. We also discuss conditions for change on the organisation level.	AKH
16.00	Labtour (optional)	MB

<p>– 17:30</p>	<p>1. Fusion Experiment EXTRAP T2R The EXTRAP T2R is a major experimental facility for fusion research. Here researchers study alternative magnetic confinement configurations which have the potential to produce fusion plasmas. Some experimental areas include plasma wall interaction and development of spectroscopic diagnostics for evaluation of plasma parameters.</p> <p>2. The Department of Robotics The Department of Robotics focuses on a number of research directions including Mobile Robotics, Planning and Decision-Making, Grasping and Manipulation, Active Perception, Social Robotics, Computer Vision and Machine Learning. Robots are expected to act in the environments built for humans, hence they should possess some of the human capabilities in terms of locomotion (e.g. to handle stairs), dexterity (e.g. to manipulate objects and tools made by and for humans) and reasoning (e.g. to exchange information with humans in a natural manner).</p> <p>3. Anechoic Chamber In this lab researchers develop measurements of electromagnetic antennas from 2-40GHz. It is an anechoic chamber, but there is no electromagnetic echo in the room at those frequencies.</p>	
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Friday 20 October		
<p>09.15 – 12.00</p>	<p>Designing and organizing blended courses This workshop focuses on the organic integration of face-to-face and online approaches and technologies in Higher education. During the workshop, we will test how different learning activities and assessment can be realized for you own context using an inquiry-based approach.</p>	SS
<p>13.15 – 16.00</p>	<p>Roundup meeting The week will be finalized with a reflective session where participants discuss and summarize the course given at KTH. Strategies for the future will be explored as well as future collaborations.</p>	AKH

AKH – Anna-Karin Högfeldt

MB – Margareta Bergman

KE – Kristina Edström

ES – Emma Strömberg

AR – Anders Rosén

HH – Hans Havtun

FL – Fredrik Lundell

SS – Stefan Stenbom