





Storträffen Meetup

Teaching for the Future - with Today's Resources and

Challenges

KTH SoTL

Taking Learning Seriously

Chair: Sofia Ritzén, Dean of Faculty

Organized by the Department of Learning, ITM



Security

► SOS alarm

112 – emergency number for danger to life, property, and the environment

- ► 790 6000 KTH Security
- Emergency exits have been checked today
- Defibrillator: Malvinas väg 10, opposite the entrance



KTH open arenas for education development

- Storträffen Meetups broad, networking, idea-generating and inclusive
- Lunch 'n' Learn teachers share knowledge and experiences, focusing on pedagogical solutions
- PriU-groups specialized, concrete and results-oriented
- ►KTH SoTL in-depth, scientific studies









Storträffen meetups every semester since 2016

- Links teachers, students and operational support
- Current and long-term questions can be raised, discussed, acted upon and anchored in the whole organization.
- Part of KTH Guidelines on systematic quality assurance and enhancement of education: University-wide exchanges of experience and learning are part of systematic quality work at KTH.

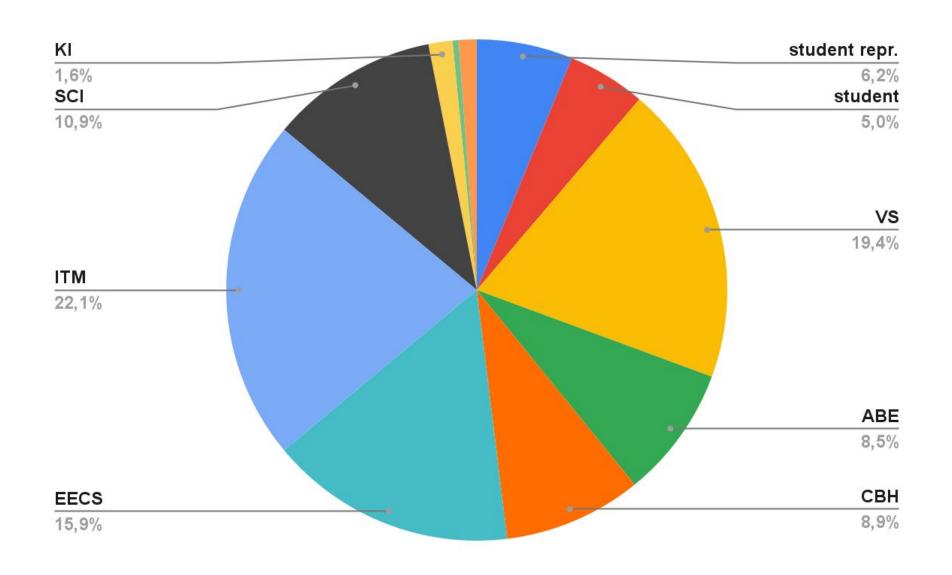
The arenas for this are the so called Storträffen Meetups and the collegial working groups for prioritised education issues (PriU groups).





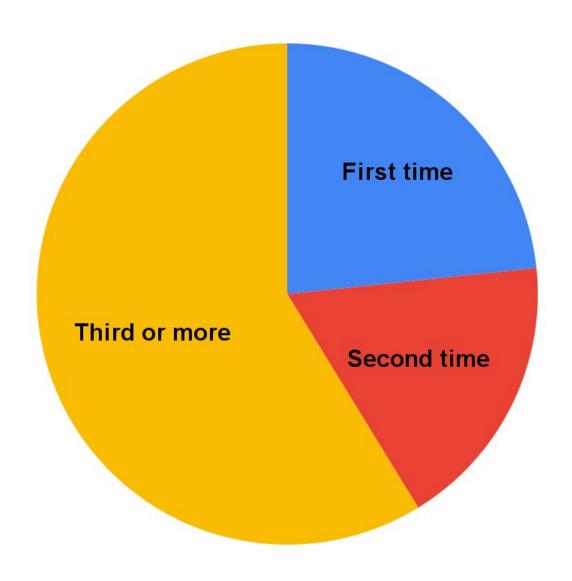


Where are the Storträffen Meetup participants from?





First-Time or Returning Participants?





Let's help each other make the meetup work

- All discussion leaders are happy to help you to find your way or understand the schedule
- Be friendly and inclusive in the discussions!
- A special welcome to the students and student representatives

The plenary sessions are recorded
The group discussions are not recorded
Photos are taken during the meeting
Future Education pod will be recorded







Anders Söderholm KTH President







Learning by Teaching: A teacher's transformation

Rodrigo Eduardo Muro Avendano

Lecturer

Division of Architectural Lighting Design



Rodrigo Muro

Architect / Lighting Designer

KTH ABE / Architecture / Architectural Lighting Design

Lecturer	2011
PA	2020
PhD Researcher	2023

KTH Pedagogical Prize 2024

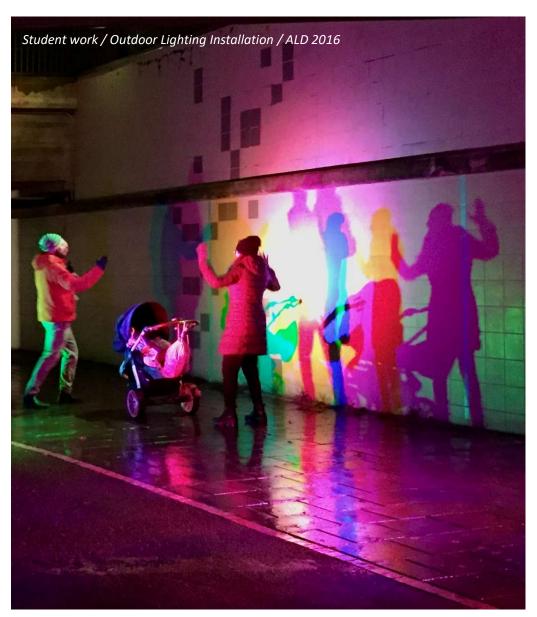


Storträffen / SoTL

Topic:

Teaching for the Future - with today's resources and challenges

Taking Learning Seriously





Transforming myself through teaching

MT presentation

Lighting Laboratory KTH STH 2006/07 – 2010 Reflecting on light



Teaching

Architectural Lighting Division KTH ABE 2011 – 2025 MSc Architectural Lighting Design





"Learning by Teaching:

A teacher 's transformation."

MT presentation

Lighting Laboratory KTH STH 2006/07 – 2010 Reflecting on light



Teaching

Architectural Lighting Division KTH ABE 2011 – 2025 MSc Architectural Lighting Design





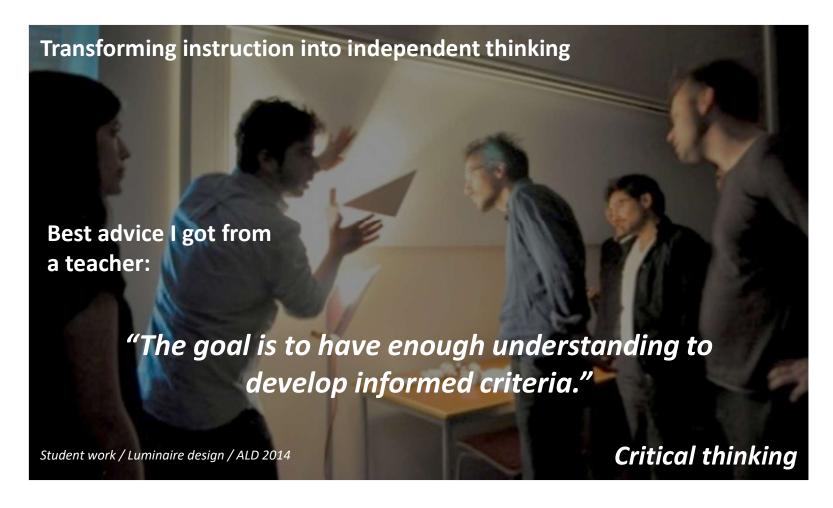








From guidance to freedom





Assessment / Project & process

Student work & exercises / ALD / Imgs. ALD students, Kyriakidou & Muro



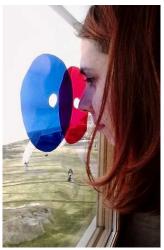


Experimental & experiential

- Learning through lived experience
- Learning is bi-directional
- Constructive pedagogy, both teacher and students are constructors of knowledge
- Opportunity to study and revise own teaching processes continuously
- Teaching as a vehicle for faculty development
- Reflective practice

LEARNING THROUGH THE ACT OF TEACHING













Beyond Reflection

Move both teaching and learning into a **diffractive method** from projecting ideas unchanged into students, to offer ideas that are diffracted—bent, reshaped, and made meaningful—through shared exploration.

<u>Method</u>	<u>Description</u>	Role of Teacher	Role of Student		
Transmissive	Knowledge is delivered "as-is"	Expert, delivers content	Absorber, passive		
Reflective	Focus on introspection and self-awareness	Facilitator of reflection	Reflects on own learning		
Diffractive	Knowledge is interpreted and reshaped through context	Mediator, interpreter	Active meaning- maker		



















Teaching philosophy

Intentionality Orient attention and awareness toward

concepts, situations, experiences, or meanings. Engaging with students as

meaning-makers.

Reciprocity Mutual meaning-making between teacher

and students. Meaning is co-constructed

through dialogue, presence, and

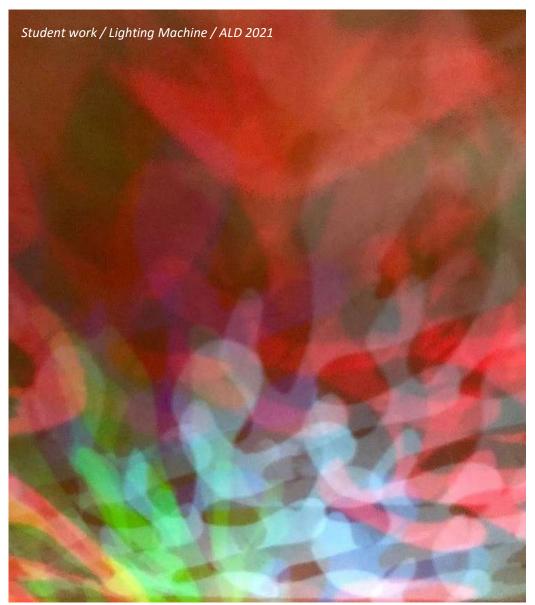
interaction.

Interpretation Continuous interpretation and re-

interpretation of meaning in teaching and

learning. This involves interpreting students' experiences and narratives, rather than just measuring learning

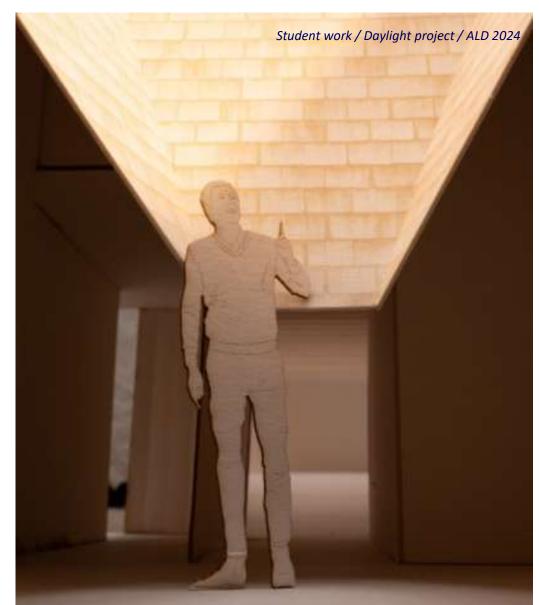
through fixed outcomes





How to support this?

- Multicultural and diverse class
- Open ended questions/solutions
- Project based assessment
- Face to face interactions
- Lively and open campus
- Hands on experience
- Continuous development of courses
- Continuous development for teachers
- Collaboration and integration for teaching
- Informing teaching through research
- Combining teaching with research duties





Bridging over research & education





Daylight simulator









A sense of belonging



 $Rodrigo\ Muro\ och\ Carl\ Dahlberg, som\ i\ december\ tilldelades\ KTH: s\ pedagogiska\ pris\ för\ 2024.\ Foto:\ Christer\ Gummeson$











Storträffen / SoTL



Rodrigo Muro

PA MSc Architectural Lighting Design KTH ABE / Architecture rodrigo.muro@arch.kth.se





Teaching for the future - today

Taking Learning Seriously















































Resources

Challenges





Future Education at KTH

Programme manager Dr. Anna Jerbrant Storträffen Meetup 20 May 2025



KTH's vision and overall goals 2024-2028

We take the lead for a sustainable society

KTH's education shall be of the highest quality and internationally competitive

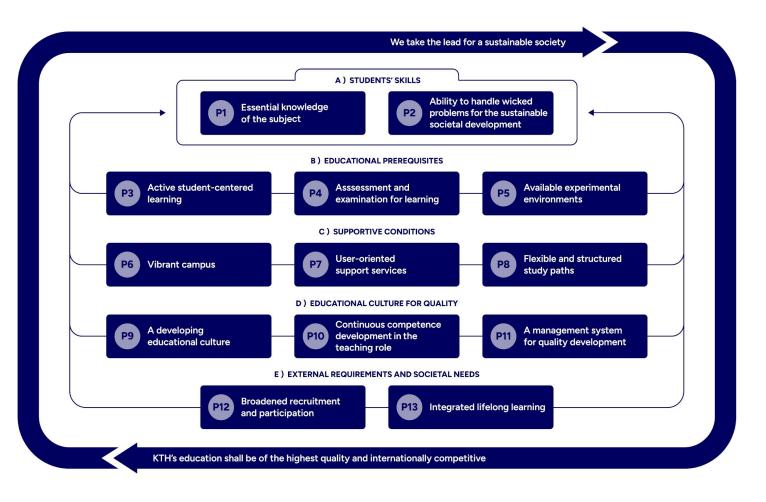
Future Education is based on principles that should characterise the work on developing KTH's education so that the education programmes remain highly **relevant and attractive** in the increased competition between national and international higher education institutions as well as new educational players.

An important starting point for the work is also **the importance of education for a transformation towards a sustainable society**, in which KTH shall maintain and develop its role."

Decision on principles for Future Education at KTH (V-2022-0380)



The change programme "Future Education at KTH"



Future Education at KTH is
a value-driven change programme
anchored in a framework that will
enable proactivity and structure for the
development of KTH's education
based on a long-term holistic perspective.





Development projects – some examples

AI - How to use/integrate AI in teaching/offering

- Develop teachers and students' skills
- Ethical aspects
- Digital guides
- Al-based teaching material

Wicked problems

- Progression in wicked problems
- Wicked problems in a sustainable context
- Wicked problems and societal change
- Wicked problems in project based courses how to structure the involvement of external stakeholders
- Structuring of project based courses

Digitalisation

- Feasibility study for large-scale examination
- Digital and continuous assessment
- Flexible recorded materials for active learning
- Data-driven admission to Master's programmes
- Integration of physical and remote experimental learning environments
- Digital exams in the preparatory year
- Flexible recorded material for active learning
- Digitalised and synchronised courses development of the digital teacher role



Project cluster: Al

Integrating AI into KTH's educational offerings

KTH will take the lead in integrating AI skills into education with a platform for a strategically broader basic discussion and pedagogical guidance for how AI can/should/should be integrated into teaching at KTH.

Arnold Pears Future Education at KTH

Pure question-based learning (pQBL) with Al-generated learning objectives and activities

Develop pQBL materials in Torus for five courses using generative Al for more effective learning materials for students and reduced course development time for teachers.

Olle Bälter, Ric Glassey EECS - Electrical Engineering and Computer Science

Interactive learning with automated feedback and continuous examination (IAK)

Develop a new pedagogical method and a concrete software to, in an introductory programming course, be able to carry out continuous and legally secure examination with learning activities for active learning.

David Broman EECS – Electrical Engineering and Computer Science

Model for ethical Al integration in the Master of Science in Industrial Engineering programme

Develop a model for how ethical perspectives can be taught within the subject of industrial engineering to strengthen students' ability to handle ethical dilemmas linked to Al.

Åsa-Karin Engstrand ITM – Industrial Engineering and Management

Digital guide for AI integration in industrial economics and management

Develop and test a digital guide for handling AI in teaching and examination related to industrial economics and organization, with the master's degree in technology-based entrepreneurship (TTBEM) as a pilot .

Anna Nyquist ITM – Industrial Engineering and Management

Al and learning

The group's focus is on the student perspective, i.e. how should our students know what applies in each course (so that Al does not undermine but helps them achieve the learning objectives).

Nina Wormbs Faculty Council – Ethics Committee



Whats going on?

- 1. Results from the projects started in 2024 are presented in Q31
- 2. Inriktningsbeslut om lärmiljöer
 - There will be a maxistudio in KTHB
- 3. Ruth Grahams survey on Teaching culture
- 4. Possibility to become a **principledare** in Future education
- 5. The poddhost (for our **Fikasnackspodd**) Marcus Lithander will walk around during the storträff and explore interesting things. Pls talk to him if you want to share your insights

Please don't hesitate to contact us if you

want any more information

framtiden@kth.se

intra.kth.se/framtidensutbildning







Scholarship of Teaching and Learning ~~ På KTH sedan 2015 ~~



Poster Session 11.30 – 12.30	Room Q34			
Ninni Carlsund	Särskild Behörighet på en kurs gör skillnad			
Anita Kullen, Tobias Oechtering, Tomas Karlsson	Student Essays in Times of Generative AI			
Session 1, 13:25-14:00	Room Q34			
Thashmee Karunaratne, Elisabet Lövkvist	Data-Informed Education (DInE) at KTH- From theory			
Imane Bayane	Enhancing Active Learning through Generative AI: A Case Study in Structural Dynamics Education			
Magnus Andersson	Student assessment of a questionnaire used during external master admission			
Session 2, 14:10-14:45	Room Q34			
Pontus Juth, Magdalena Svanberg	Al-drivna forskningsassistenter: En undersökning			
Niclas Hjelm, Joakim Dalfors	Kan gruppövningar varje vecka öka lärandet i matematik			
Viggo Kann	Vad gör studenterna när dom inte är på lektionen?			
Session 3, 15:15-15:50	Room Q34			
Lars Uppvall, Pontus Wadström	Engaging with Engineering Education: Industry Partners' Motivations and Experiences in Problem- and Project-Based Learning Courses			
Sofia Strömqvist	Design for all: Facilitating the involvement of cognitive diversity in students design projects			
Emma Riese, Olle Bälter, Tomas Ekholm	, Experiences, Impacts and Implications of a STINT			

Teaching Sabbatical

Experience Perspectives

Designing Courses and Programmes from Learner

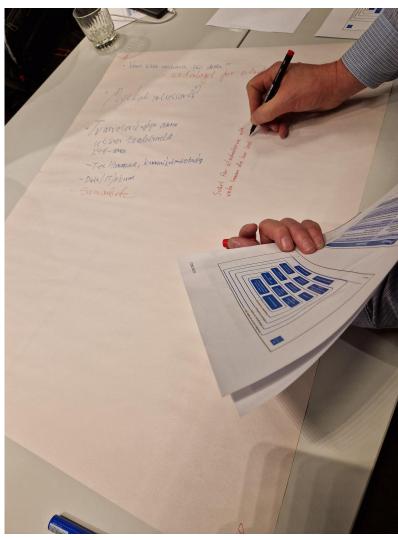
Room Q1

Ric Glassey, Viggo Kann

Keynote, 16.00

Suzanne Brink





Today's schedule

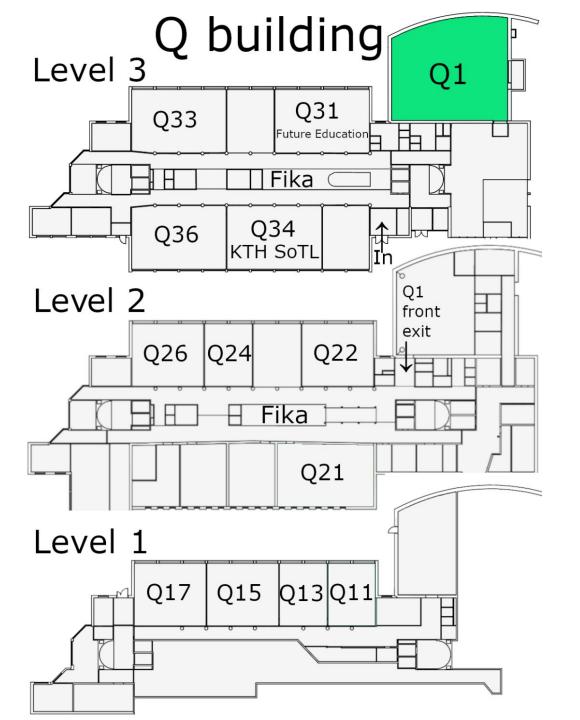
- □13:25-14:00 Round 1 of discussions
- □14:10-14:45 Round 2 of discussions
- □14:45-15:15 Fika at level 2 and 3
- □15:15-15:50 Round 3 of discussions
- 16:00-16:45 Summary and conclusion in Q1
- □16:45-18:00 After-talk and mingle in the entrance hall or outside



Rounds

		. 1			
	Topics for discussions, workshops, oral presentations etc. at Storträffen Meetup and KTH SoTL May 20, 2025		2 14:10 14:45	I	Room
	KTH SoTL posters; 3 oral presentations per round, see separate programme	en	sv	en	Q34
	Future education posters and discussions				Q31
1	Discussion: New ways of teaching the new digitally savvy student (PriU)	en	sv		Q33
2	Discussion: How could an Al-chatbot be of help in your course? (PriU)		en	sv	Q36
_	Discussion: Peer assessment as a learning activity and a time-saving strategy (PriU)	sv	en		Q26
4		en			Q36
5	Diskussion: Anonym examination			5V	Q21
_	Diskussion: Sapere Aude - eget ansvar för lärandet		sv		Q17
7	Discussion: Higher education pedagogy development with today's resources and challenges (PriU)	en			Q22
8	Discussion: Sustainable development in education – How far have we come, and what's the next step? (PriU)		en		Q21
9	Discussion: PriU JML - What needs and interests do we have in meeting? (PriU)			en	Q24
10	Diskussion: Pressen på det amerikanska forskningssystemet - vad kan vi göra här?			SV	Q26
11	Workshop: Dynamic flexible responsive course and programme design		en		Q24
12	Workshop: Bring a text and let us use it to create a formative quiz in Canvas with the help of Al	en/sv			Q31
13	Workshop: Breddat deltagande	sv			Q17
14	Workshop: Course evaluation - strategies for higher response rates			en	Q22
15	Workshop: Hur kan KTH:s forskning och utbildning inom hållbarhet gestaltas i en utställning för jubileumsåret 2027?		sv	sv	Q11
16	Walking seminar: How can we encourage more students to participate in the classes?			en/sv	Q ent- rance
17	Collect input: En ny språkpolicy för KTH / A new language policy for KTH			en/sv	Q33
18	Collect input: Data-informed teaching and Canvas New Analytics			en	Q15
19	Hör mera om och diskutera: THS-rapporter om studieplatsinventering och behov av öppet campus (PriU)	sv			Q21
20	Hör mera om och diskutera: Presumtiva studenter - målgrupper med STEM-potential		sv		Q13
21	Learn more and discuss: Electric Mobility - learnings from phase 1 in the future education project		en		Q31
22	Learn more and discuss: Faster upskilling - KTH's courses for professionals	en			Q24
23	Learn more and discuss: FuSam - KTH-wide coordination of doctoral education matters	en			Q15
24	Learn more and discuss: What is the role and responsibility of co-supervisors? Should the role be clarified?		en		Q15
25	Learn more and discuss: How do expectation documents and supervisor panels contribute to the development of doctoral supervision?			en	Q13
26	Learn more about: Digital guide for Al integration in industrial economics and management	en			Q13
27	Hör mera om: Behörighetskrav till kurser och program			SV	Q31
28	Learn more about: Strategic partnerships as a resource for education (PriU)		en/sv		Q22
29	Hör mera om: Digital uppdragsutbildning inom livslångt lärande			5V	Q17
30	Demo: Stöd för kursriktlinjer om användning av generativ Al	sv			Q11





Pitch text document

