



SCHOOL OF ENGINEERING SCIENCES IN CHEMISTRY, BIOTECHNOLOGY AND HEALTH

CBH News

Nr 18, November 2018

2018-11-20

Since the last doctoral award ceremony, 58 people have graduated in subjects associated with the School of Engineering Sciences in Chemistry, Biotechnology and Health.

This was the introduction to CBH's part of KTH's annual doctoral award ceremony and professorial inauguration, which took place in the Stockholm Concert Hall last Friday, with a following banquet at the City Hall.

The CBH School has 400 registered doctoral students and on Friday, those who had defended their doctoral theses since the last ceremony took place, were awarded.

I would like to direct a word of thanks and congratulations to our new doctors and their supervisors.

You are very much the ones responsible for making our school's research maintain an amazingly high level. We can see this in four of our departments being among KTH's 10 most well-cited.



In an earlier issue of CBH News, we announced the position as new Director of Third Cycle Education (FA).

Following interviews, collection of views from e.g. pro dean, heads of department, and doctoral student representatives, we have chosen to appoint professor Christina Divne to new FA as of January 1, 2019.

Christina is currently vice FA and we are very much looking forward to continue working with her in the role as FA. I wish you every success!

It is a challenge that the CBH School is situated on several locations, but one step for all towards feeling a presence of CBH is Noden.

You can turn to Noden with questions concerning access, caretaking, mail and parcels, premises booking, catering, events and bookings for guests and students. You will be able to read more about Noden later on in CBH News.

Mikael Lindström
Head of School



Do you have news tips?

Send it to CBH News!

All news tips for CBH News should be sent to

cbh-nytt@cbh.kth.se

All contributions must be in by 12.00 on Monday the same week as CBH News is published in order to be admitted. See the current deadline at the last page.

Highlights from CBH's management group

- **Per-Anders Östling, KTH ranking.** There is a possibility for each department of contacting Per-Anders Östling for a workshop (ca 1.5 h) about bibliometry and ranking.
- **Swedish language requirements for newly-employed faculty?** What demands do we make and KTH and how do we help a newly-employed member of faculty in becoming a full member of faculty?
- **All courses shall have goal-related grade criteria.** Before course selection of autumn 2019, a majority of KTH's course syllabi will have to be revised.
- **Need for harmonisation of CBH's five doctoral programmes** concerning general rules. FA is sketching a proposal.

First meeting of the JML working group

Anna Wahl, KTH's Vice president for Gender Equality and Values, was invited when the CBH School equality group (JML group) gathered for the first time.



CBH's JML-group has had its first meeting. The group was created as support for the school's JML Director, also Head of School, in working for an equal CBH School.

Anna Wahl, KTH's Vice president for Gender Equality and Values, was invited to the first meeting, where she gave her definition of what equality, diversity and equal opportunities (JML) means:

Equality: Same power to form society and one's own life regardless of gender

Diversity: Appreciating differences without reinforcing stereotypes

Equal opportunities: Same conditions for power influence, economy, education, health, physical integrity and equal distribution of the unpaid care work

Members of the JML-group:

Mikael Lindström, Head of School, JML Director for CBH

Marja Mutikainen, Head of Human Resources

Marie Larson, Head of Administration

Annelie Fredriksson, Vice UA and team leader Student Support

Ines Ezcurra, Safety Representative

Cecilia Williams, Professor, Protein Science

Anders Clenander, Lecturer, Engineering Pedagogics

Anna Josefsson, Lecturer, Biomedical Engineering and Health Systems

Student Representative: Jonathan Persson, TryggO, Student Union Council Chemistry

Question formulations after the first meeting

- How can we create participation at our school?
- How do we find out about the challenges?
- What are the specific CBH challenges?

Contact Noden for support and service

Noden gives support, advice and service to employees of the CBH School.



You are warmly welcome to turn to us with questions concerning access, caretaking, mail and parcels, premises booking, catering, events and bookings for guests and students.

You can find us on KTH Campus, Teknikringen 28 and at AlbaNova, Roslagstullsbacken 21.

For more information about what kind of services we can offer you, visit us on: <https://intra.kth.se/en/cbh> or send us your enquiry to:

noden@cbh.kth.se

We are looking forward to helping you!

Best regards,

Nils Lenart, Johanna Nyholm och Sandhya Hagelin

New e-mail list to all programme directors

The work with developing CBH's e-mail lists proceeds. The latest addition is a list which goes to all programme directors (PA) of first and second cycle education.

The name of the list is: programansvariga@cbh.kth.se

When the school was formed, it was observed that there was a large number of e-mail lists. To be sure that we can keep the e-mail lists and the function addresses updated, and thereby secure that information reaches all concerned, it is important to carefully consider which e-mail lists should exist.

On this page, you can see the currently existing e-mail lists and function addresses:

<https://intra.kth.se/en/cbh/skolans-organisation/e-postlistor-och-fun/e-postlistor-1.811522>

The responsibility of administering the lists lies on different functions within the administration. If you have any questions about e-mail lists, feel free to contact the school's Head of Communications:

Sabina Fabrizi, sabina@kth.se

New travel grant for our students

In the end of November, CBH's students will be able to apply for exchange studies for the year 2019-2020.

Many go within Europe, most popular are France, Italy, Portugal and Switzerland, and they then receive the Erasmus+ scholarship, or similar. For those travelling outside the EU, the CBH School helps out with a travel grant of SEK 7 000 (exchange studies or degree project).

Our most popular countries outside the EU are the US, Japan, China (including Hong Kong), Singapore, South Korea and Australia. We also introduce a grant for preparatory language courses in the country one travels to.

We hope that the new grants, which as of autumn 2019 will apply to all students at CBH, will make more students feel they can travel where they want. Complete rules for what applies for the grants will be published here shortly.

David Grenot, internationell koordinator

Welcome Josefine Mellberg!



What does it feel like to have started working at CBH?

It feels very good, I've been warmly welcomed and many are very understanding towards that there is a lot to learn in the beginning.

I'm happy to have received the chance of becoming a part of KTH and I feel excited to learn a lot.

What will you be working with?

I will be working with the administrative part of recruitment, employment and various labour law issues.

In which issues can you be contacted?

You can contact me for support when it comes to e.g. recruitment, hiring new staff and labour law issues.

Initially, I will be the main contact person for employees at Chemical Engineering and Engineering Pedagogics.

Where do you come from most recently?

Before I came here, I worked as a HR generalist and recruiter at a recruitment agency.

What do you hope to accomplish in your new role?

I hope to be able to offer a good service and clarity to all of you who turn to me with questions, and to eventually become an expert in my field!

Antimicrobial materials from cellulose using environmentally friendly techniques

Anna Ottenhall, Fibre and Polymer Technology

Fr 2018-12-07

What is your dissertation about?

It is about more environmentally friendly ways to prevent microbial growth on biobased materials as well as how to remove bacteria from water using biobased filters.

Does it have any connection to KTH's sustainability work and the global sustainable development goals?

Yes, I recently presented some of my work at KTH Sustainability Research Day. One of the UN goals for sustainable development is clean water for all and the return to a more biobased society will require techniques to prevent microbial growth on materials made from biodegradable resources.

How can your results be used in the future?

The way to make bacteria adsorbing materials using cationic polyelectrolytes have the potential to be used for different applications where we want to trap and remove bacteria. One goal we have had is to use it for water purification in the future. Another research highlight from the thesis is the good antifungal effect chitosan had in cellulosic fiber foam materials.



Check out upcoming defences of dissertations on CBH:s intranet pages:

<https://intra.kth.se/cbh/nyheter-och-handelser/cbh-kalender>

Sustainable Business Innovation of Photovoltaic Water Pumping Systems

Chi Zhang, Chemical Engineering

(Defended 2018-11-01)



What is your dissertation about?

My dissertation is about to assess an innovative business model with economic performance, emission reduction, and financing suitability of the integrated photovoltaic water pumping systems (PVWP) system in China. This PVWP application could be used as a potential solution for further value-added renewable energy applications with a CO₂ emission reduction target.

Does it have any connection to KTH's sustainability work and the global sustainable development goals?

The photovoltaic water pumping systems represent the better technical and economic solutions under a feasible innovated business model in comparison with traditional photovoltaic systems and current PV business models. It developed an exclusive integrated framework to design, analyze, and improve renewable energy systems with business model innovation and technological innovations under the emission reduction target.

How can your results be used in the future?

The results from the PVWP technology integration in China as a specific PV application study can be further applied for the business model innovation of renewable energy systems in other regions of the world under emission reduction targets leading to economic and environmental benefits.

The next issue of CBH News will come out in week 49. The deadline for making contributions is on December 3 at 12.00.

Editor: Sabina Fabrizi, sabina@kth.se