



# SCI NEWS

JUNE 2020



*We have experienced a challenging and unprecedented Spring Term. We do not know how the situation will evolve after the summer, so we must plan our work according to the current guidelines and regulations. You can find the School's implementation of the general KTH guidelines for the Autumn Term below:*

**SCI guidelines for Autumn Term 2020**



*Thanks again to all personnel at the School - you have all contributed to making the Spring Term run smoothly in an impressive and professional way!*

*I wish you all a nice summer!*



**KTH holds its position in the world top 100 ...**

... with SCI among the best in the world in the latest QS subject ranking. Mechanical Engineering #29, Mathematics #38, Physics #50-100

**MORE**



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## SUNRISE is awarded 50 million SEK!

Congratulations to Pär Olsson, who leads a new research centre, "Sustainable nuclear research in Sweden (SUNRISE)" - one of four new centres funded by the Foundation for Strategic Research (SSF) in the Agenda 2030 initiative.

[MORE](#) 

## Swedish for employees

KTH Language and Communication offers Swedish courses for employees at five levels. Tailor-made course packages are also offered.

[MORE](#) 



## Administrative support during the summer

During the vacation period, the School's administration will operate with a reduced staffing level.

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## Education plan for Autumn 2020



*Gunnar Tibert, Director of First and Second Cycle Education*

KTH's overall plan is to welcome our students to campus in late August. To mitigate virus transmission among faculty members, personnel and students, the students new to KTH will be given priority in the access to all campuses. Returning students will be taught mainly on-line with only limited access to the campuses. Campus presence will enable new students to have a good start in their higher education studies, meeting classmates in real life.

All faculty members and personnel involved in the planning of the education are currently working hard to coordinate the challenging task of offering an good mix of campus-based and digital on-line education for all new students.

## Winners in KTH Active together

"KTH Active together" ended recently. There were 93 competing teams, including several from SCI.

SCI was the highest ranked School at KTH at the end of the competition! The best team from SCI was "SIMEX", from the Department of Engineering Mechanics, who managed to reach fourth place in the whole competition.

Well done everyone!





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## We congratulate

**Ricardo Vinuesa**, Engineering Mechanics Department - promoted to associate professor in fluid mechanics

**Kevin Schnell**, Mathematics Department - promoted to associate professor in mathematics with specialisation in complex systems

**Roger Berg** (Saab Kockums), Engineering Mechanics Department - appointed as adjunct professor in Naval Architecture, 2020-07-01 - 2024-05-20

## Recent Ph.D. Thesis defences

### **Wilhelm Johannisson**

Aerospace Engineering

*Exploring structural carbon fiber composites for mass-less energy and actuation*

### **Pierluigi Morra**

Engineering Mechanics

*Modelling and control of turbulent and transitional flows*

### **Lucas Schweickert**

Physics, Optics and Photonics

*Correlation spectroscopy with epitaxial quantum dots—Single-photons alone in the dark*

### **Bochao Wang**

Engineering Mechanics

*Constitutive models of magneto-sensitive rubber under a continuum mechanic basis and their application in vibration isolation*

### **Tomas Berggren**

Mathematics

*On determinantal point processes and random tilings with doubly periodic weights*

### **Francesca Capel**

Physics, Atomic, Subatomic and Astrophysics

*Cosmic clues from astrophysical particles*

### **Peng Yu**

Physics, Nuclear Energy Engineering  
*Modelling and Simulation of Reactor Pressure Vessel Failure during Severe Accidents*

### **Robert Bujila**

Physics, Biological and Biomedical  
*Methods and utilities to assist in the optimization of image quality and radiation dose in X-ray Computed Tomography*