ARCHITECTURE & ENGINEERING



MASTER THESIS WORK AT THE TRÄ & TEKNIK FAIR 2016





PETER & STUDENTS ANALYZING ART AT KIRCHER MUSEUM, DAVOS



STUDY TOUR - SALGINATOBEL BRIDGE



AHA FESTIVAL EXHIBITION OF STUDENT PROJECTS DEPARTMENT OF ARCHITECTURE

ARCHITECTURE & ENGINEERING

The Architecture and Engineering (Arkitektur och Teknik - AT) program prepares students to formally become architects or engineers or both. An education and an educational journey. Where sensibility, creativity and confidence draws its nourishment from the powerful stories of good examples. Where the daily sketching – with pencil, material models, and mathematical programming allows the unexpected alternatives to appear, Where patterns from nature and science guide for efficient design, and where the being in iterative design processes, with the whole in sight, gives better space that secure



STUDY TOURS

Architecture and engineering is best in reality. The study tour is a classic pedagogic tool in the education of architects ever since the Grand Tours of the seventeenth century. For the AT program, the study tours bring us to the role models, buildings, spaces, and people from our two professions. We collect a repertoire of good examples to be inspired by, we are training the skill of analytical sketching, and we have fun.



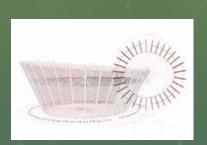
BACHELOR AND MASTER

The Architecture and Engineering program is a combination of of a 3 years BSc and a 2 years MSc program. The BSc part consists of mathematics, programming, applied mechanics and materials; architecture and engineering history, digital tools, sketching and artistic skills; and a set of architectural design projects. At the Masters level the students can choose between an architecture or an engineering track in order to deepen skills and knowledge in a specific field and for the chosen professional exam.



BACHELOR THESIS

At the end of the third year of study, AT students do a bachelor's thesis. Together with students from the Sound and Vibration program they participate in the American Society of Acoustics' annual and international student design competition. The results of the competition must be considered an unprecedented success – so much so that the competition organizers changed the rules in 2012 to limit the number of submissions from any university to three. Five of eight possible first prizes, and 18 honorable mentions has went to Chalmers.



INTERNSHIPS ABROAD

Looking for collaboration with the very best architecture and engineering firms has been a key aspect in the development of the AT program, making connections that help place students in internships and permanent positions. Today about one-third of every class goes abroad for their interns. We have established a network that includes some of the world's most prominent architecture and engineering firms – such as Herzog & de Meuron, SBP, Buro Happold, Knippers Helbig, and others – and they have now had such good experience with interns from AT that they are enthusiastic about welcoming more.



SMARTGEOMETRY VISITS CHALMERS 2016

It's not so easy to describe Smartgeometry for the uninitiated. "A hackathon for architects" is the best description we've heard yet for a set of workshops and a connecting conference on subjects that span from parametric modeling, systems optimization, and analysis to simulation, programming, and robotics. The theme of 2016, Hybrid Domains, is tied to the interdisciplinary nature of architecture, so what better than to hold Smartgeometry at Chalmers, in the field right in the middle between architecture and engineering. A confirmation of the state of the program after ten years, with AT students playing indispensable roles at all levels of the workshops.

Research Group

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Pictures and texts are mainly from the Architecture and Engieneering 10 years jubilee book, edited by Claes Caldenby, and with contributions from teachers and students at the program.



ART X SCIENCE

"UNI - VERSE"