ASEN01 + ASEN10

SPATIAL EXPERIMENT I

EXTREME ENVIRONMENTS and SPACE ARCHITECTURE

Lund School of Architecture, Sweden.
In collaboration with NASA Johnson Space Center.

CREDITS:
Spatial experiment I (15hp) ASEN01
Spatial experiment I, theory (7,5hp) ASEN10

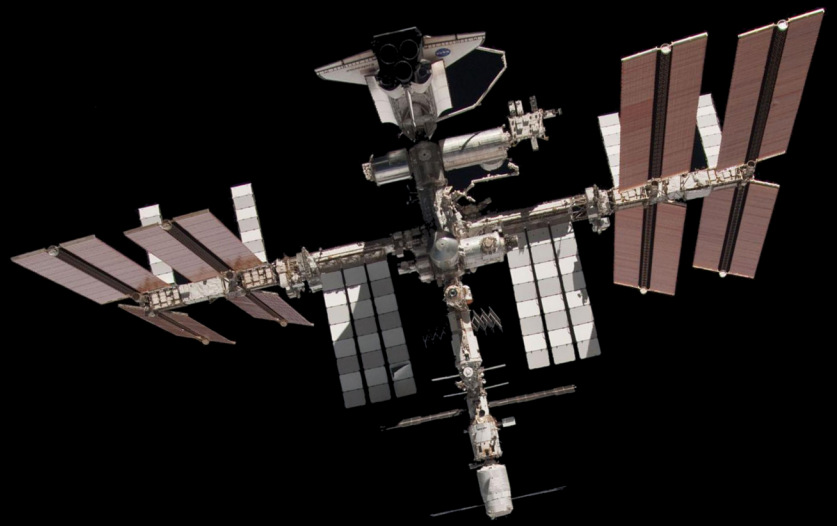
TEACHERS:
COURSE TEACHERS: Tina-Henriette Kristiansen, David Andreen, Christian Wilke
COURSE EXAMINER: Christer Malmström
Larry Toups (NASA/US) Christian Wilke (Sweden) Sir Peter Cook (UK) Olga Bannova (US) Kristian Von Bengston (Mars One, Denmark), Katarina Eriksson (Sweden) and more.

OBLIGATORY COURSE: Spatial experiment I, theory (7,5hp) ASEN10
7.5 Credits (Research Course)+ workshop/study trip at NASA : Johnson Space Center, Houston. US.
ATTENDANCE: Maximum 20 Students.
COURSE LANGUAGE: English
DURATION: One Semester (September-December 2015)

PROGRAM AND AIM:
This Extreme Environments Master Course aims for the skies and beyond. In a time where science and technology inform both Space Missions as well as architectural constructions on earth, one wonders what the role of architects is or should be now and in the future – in both territories.

”Extreme Environments : Space Architecture” will focus on Space. More specific Mars, an exo-landscape which is as rich in potential and unexplored as it is challenging and limited by the harshest of environments.

This program is a collaboration with NASA: Johnson Space Center in Houston, Texas, USA.
The course will engage architectural design with existing and real scenarios suggested by NASA Experts.
We will be working around Mars and the first manned missions to Mars, in orbit or in microgravity environments. We will be developing a critical perspective of the traditional typologies and ideas used so far, to be able to respond to a future of ambitions.
The aim, as well as NASA´s interest in the course, is not to turn the students into space engineers, but quite the opposite, to engage the students into opening up for visions and alternatives to the existing proposals. Working in a not known environment (site context) with no architectural codes, history and norms.



SUGGESTED BIBLIOGRAPHY

OUT OF THIS WORLD: The New Field of Space Architecture
Edited by A. Scott Howe and Brent Sherwood.

More:
SPACESUIT - de Moncheaux
MOONFIRE - Norman Mailer
BUILDING FOR SPACE TRAVEL - The art Institute of Chicago
HANDBOOK OF SPACE ENGINEERING, ARCHEOLOGY AND HERITAGE - Darrin O’Leary
MOONDUST - Andrew Smith

NOTE:

All students planning to attend this course will have to supply a scan of their passport to the course teachers (email on last page), in order to aquire sequrity clearance to NASA facilities. Deadline May 2015.

Interest in participating in either summer school (2015 or 2016) should also be stated in this email.

PERSPECTIVE:
We firmly believe that a interdisciplinary approach to architecture can enrich the possibilities of dealing with the challenges of our world today – here and in Space. Engaging with extreme environments can create a more resilient and sustainable architecture, as well as a platform for discussions on our role in an ever changing architectural landscape.

METHODOLOGY
The course is structured as a research and design strategy, with strong emphasis in engaging with real scenarios, from a critical and sustainable approach.
RESEARCH: A thorough understanding of the site and context in question is charted and communicated visually as a constant reference to inform the design, but specially to aid the student to determine the program, encouraging responsibility in defining their relationship with architecture and the world around them.
During this phase, we will use our international and national researcher and experts to help with the latest in technology and science. Drawing from an international network of experts, the students will be supported by reviews and lectures.

COURSE EXAMINER
Prof. Christer Malmström (1954), Dean at Lund School of Architecture. He was a professor at Chalmers Architecture in Gothenburg 1997-2007 and from 2009 he is a professor in Architecture at Lund University. He is joint owner and general manager in Malmström Edström Arkitekter Ingenjörer and his work has won several national awards. Prof. Malmström is an international lecturer and prominent voice in the Scandinavian architectural scene.
PROJECT LEADER
Tina-Henriette Kristiansen (1971) graduated from AACH: Aarhus school of Architecture, Denmark. She has since 2000 with her Ph. D studies on Augmented Reality in Architecture, been involved in Space Architecture and has worked at Johnson Space Center, Houston, USA with the Mars habitation project and has taught at NASA as well as lecturing at ETH Zurich, AA London, Houston University, Rice University, KiDS Cologne, Royal Academy of Fine Arts in Copenhagen, Aarhus School of Architecture and Technical University of Lisbon Faculty of Architecture. She is now running 3 studios at Lund University School of Architecture, one being selected to participate together with nine other universities for the exhibition on the Slovenian and Australian pavilions for the Venice Biennale 2012.
Tina-Henriette is also a member of the board of the Danish Astronautical society.

SUMMERSCHOOL IN MOSCOW:
5 participating students will have the opportunity of going to Moscow for a Space-summerschool in 2015, and another 5 in 2016. Swedish students will be given priority in 2015. Those interested should express interest to the course teachers!

INFO:
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