



UiO : **Institutt for teknologisystemer**
Det matematisk-naturvitenskapelige fakultet

Dear students! Welcome to ITS!

Cecilie Rolstad Denby

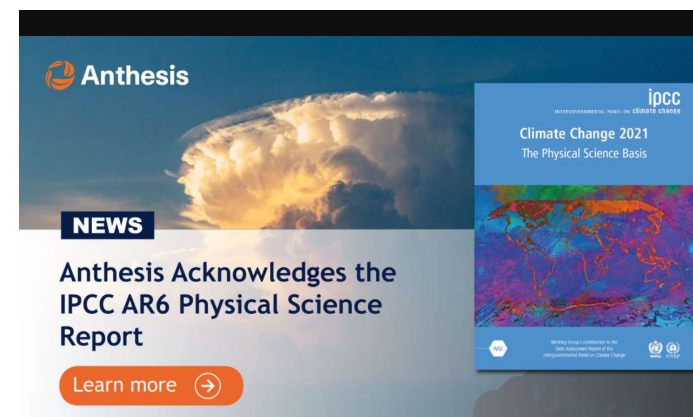
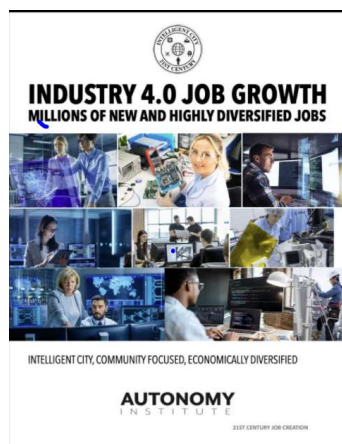
Head of Department of Technology Systems

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Congratulation with a good choice of studyprogram
– our topics are very relevant for the future!

- Renewable Energy Systems
- Cybernetics and Autonomous Systems



Outline of presentation

- Briefly about UiO (for new students)
- Our department, ITS
 - Associated organisations
 - Staff at ITS
 - Selected research and innovation projects

UiO : Institutt for teknologisystemer

Det matematisk-naturvitenskapelige fakultet

UiO
in brief



8
faculties

Our breadth is our strength.
New possibilities and solutions arise
when knowledge from different subject
areas and disciplines meet.



28,007
students

Of these students, around 14,500 are
at the bachelor's level, 6,400 are at the master's
level and 7,000 are in professional programmes
and integrated master's programmes.



6,609
full-time equivalents

Three-quarters of our staff are
in research and teaching positions,
the rest are support or administrative
personnel.

2
museums



Study abroad
award
1st place



2,000
events

2,000 events – debates, seminars
and conferences – arranged by UiO
are open and free to all.



UiO was ranked as the world's 67th best
university, Europe's 24th best university
and Norway's best university in 2018.
Shanghai Ranking of World Universities



5
Nobel Prize
winners

Fridtjof Nansen
Peace Prize,
1922

Ragnar Frisch
Economics, 1969

Odd Hassel
Chemistry, 1969

Ivar Giaever
Physics, 1973
Trygve Haavelmo
Economics, 1989

The Faculty og Mathematics and Natural Sciences

- 6000 students (bachelor, master)
 - 50/50 natural sciences and technology courses
- 800 PhD-students
- 2000 employees
- Turnover 1,9 billion NOK
- 40% of funding from external resources (EU & NFR & Industry)
- 200 active projects partners in industry and public sector
- Extensive international activity
 - The Panorama strategy
 - The Guild network



Grant highlights

20 ERC-grants

4+4 Centre of excellences (SFF)

3+10 SFIs and FMEs

1 SFU

2 Nordic Centre of Excellence

25% of free NFR-research grants (FRIPRO)

3 of 3 NFR lighthouse projects (ICT)

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Accociated organisations

Kjeller Science park, Lillestrøm



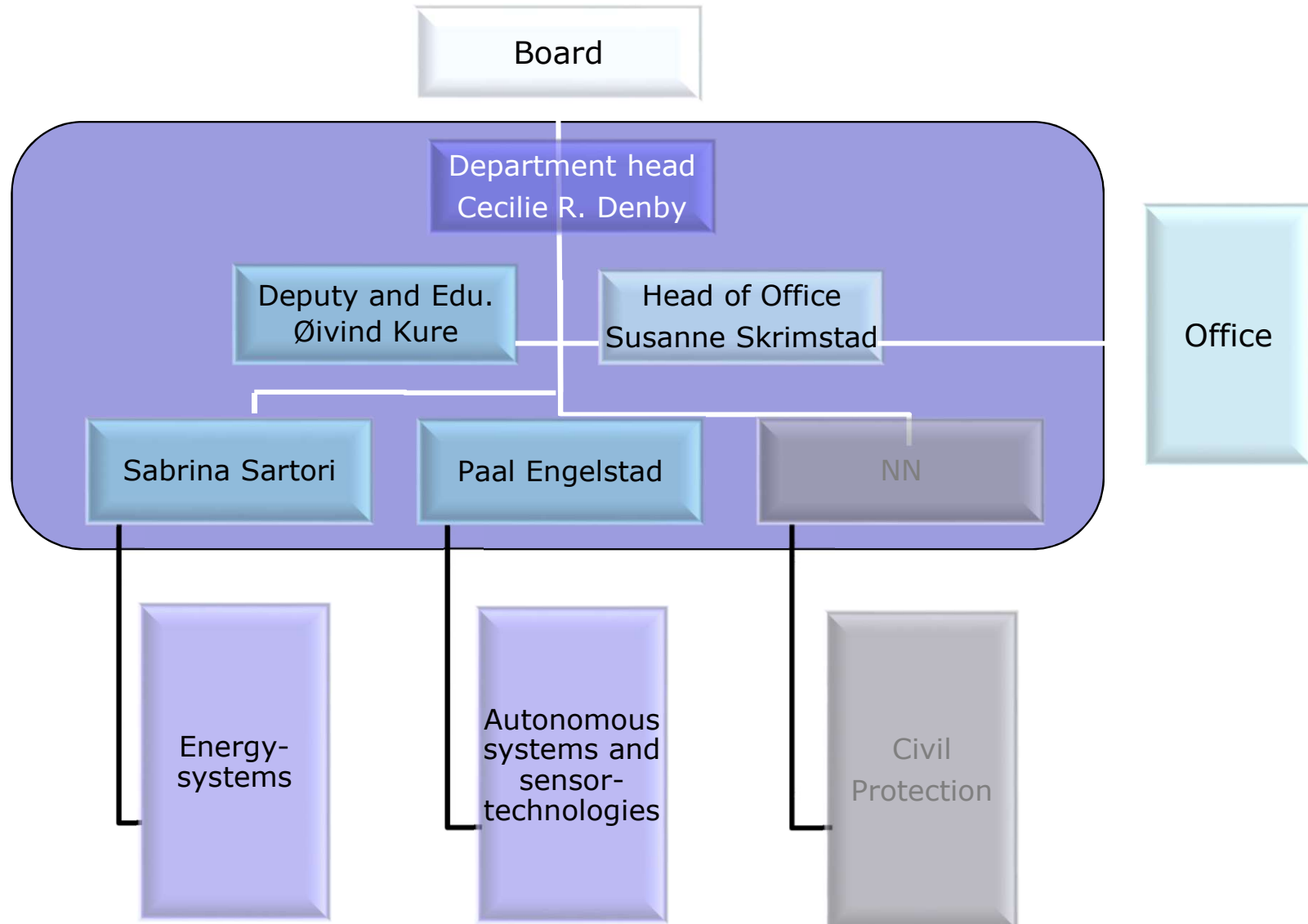
Other partners companies of ITS:

Thales

ABB

Telenor

**Campus
Blindern**



- Scientific staff



Professor
Paal Engelstad
IKT



Professor
Øivind Kure
IKT



Professor
Svein-Erik Hamran
Radar



Professor
Torbjørn Skauli
Optics



Assoc. Professor
Sabrina Sartori
Energi-systemer



Assoc. Professor
Marianne Zeyringer
Energy Systems



Lektor
Metylda Guzik
Energi-systemer



Professor
Josef Noll
IKT

- Scientific part time positions



Home institution

- FFI : 22
- IFE : 6
- Thales : 2
- Telenor : 2
- ABB : 2
- KongsMar: 1
- NSM : 1
- DnB : 1
- NR : 1
- Nokia S : 1
- Nord Pool AS: 1
- Cenate AS : 1
- Høg. Vestlandet: 1

Administrative staff



Susanne Skrimstad
Kontorsjef



Arild
Hemstad
IT-leder



Kaja
Mosserud-
Haavardsholm
Studieleder



Hellfrid Opsahl
Newman
Rådgiver



Tuhta Ismailova
Seniorkonsulent



Mette
Johnsrud
Rådgiver



Ida Rydning
Studiekonsulent



Marit Larsen
Forskningsskonsulent

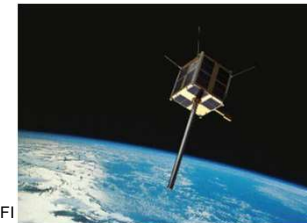


Stian Løvold
Seniorrådgive
r

Center for research based innovation:

Center for Space Sensors and Systems - CENSSS

- Two major business innovation areas:
 - A National New-Space (small, low-cost satellites) capability and
 - Space Exploration (“to the Moon and Mars”).
- Work Packages
 1. New-Space Sensors,
 2. New-Space Demonstrator,
 3. New-Space Services,
 4. RIMFAX Science Operation Center
 5. Mapping Instruments for planetary INSRU



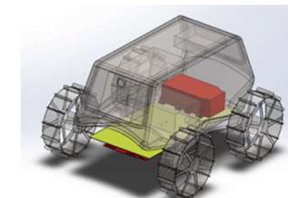
AISSat image credit FFI



Artist illustration show RIMFAX image the subsurface of Mars. (Background image credit NASA)



IDEAS terrestrial precision gamma ray spectrometer.



(Image credit ispace)



AtLAST

- Design of a new
50m dia radio telescope
in Chile, powered by
Renewable energy



Sabrina Sartori during experiments to study hydrogen storage materials at the Spallation Neutron Source, Oak Ridge Laboratory. Photo: Sabrina Sartori/UiO



Claudia Cicone and the antennas of the Atacama Large Millimeter/sub-millimeter Array (ALMA). Their diameter is 12 metre, while AtLAST is designed to be four times bigger. Photo: Claudia Cicone/UiO

Digital Development

- fostered through “Internet light for all”
- free access to information for all
- Net neutrality
 - access to information, compressed text and pictures through Internet light for all
- Catalyst for Sustainable Development Goals (SDGs)
- Pilots for Digital Inclusion through *Internet light for all*
 - Focus in Tanzania on health
 - Focus in DRC on education/work



Good luck with your studies at ITS!
Use your time well!

