AGENDA

Opening survey

Strategy 2020 – 2023

Thematic presentations:

- Clusters, un outil au service de l’interdisciplinarité dans la recherche
- L’interdisciplinarité dans l’éducation
- Gender equality at ENAC
- Open Science at ENAC
- Devenir une faculté leader en durabilité

ENAC laureates of thesis awards
2019/2020

Conclusion
ENAC
Strategy 2020-2023
A unique faculty
Vision

ENAC is the leading faculty addressing sustainability challenges in the built and natural environment through:

- Disciplinary, inter- /trans-disciplinary research
- Educational excellence
- Innovation.
Addressing key societal challenges through interdisciplinary research, teaching and innovation

1. Climate Change
2. Digitalization
3. Urbanization
ENAC contributes substantially to a sustainable transition of the built and natural environments through:

- scientific knowledge creation
- excellent experimental facilities
- project-oriented research and learning
- technology development and transfer, and
- knowledge transfer to society.
Goals

1. Inter-, trans- and multi-disciplinarity
2. Diversity and community feeling
3. Data driven approaches and open science
4. Strong partnerships and innovation
5. Integrated communication
Inter-, trans- and multi-disciplinarity

- Encourage inter-, trans- and multi-disciplinarity and
- implement the transition by cluster building and project-oriented research and learning.
Goals

2 Diversity and community feeling

- Foster diversity (gender, age, knowledge balance) and
- community feeling within ENAC.
3 Data driven approaches and open science

- Hire new faculty members with strong data science skills and
- create technical infrastructure to facilitate use and implementation of digital tools and sharing of data and models.
Strong partnerships and innovation

- Build strong partnerships with private and public partners and
- Foster innovation and start-ups.
Goals

5 Integrated communication

- Engage for an integrated communication serving internal and external stakeholders and
- increase national / international visibility.
In a nutshell – ENACs goals

1. «We engage for an interdisciplinary research and teaching culture on climate change, digitalization, and urbanization.»

2. «We welcome all scientific contributors to our faculty and include all students in our educational endeavour.»

3. «We look for data science skills, implement digital tools, and we do share our data and models.»

4. «We want to work with partners in and outside ENAC to foster together our innovation capabilities and to develop start ups.»

5. «We aim to reach our stakeholders on a regular basis by providing relevant scientific information for their benefit.»
Dean’s strategic foci

2020
Focus on strategy and organizational structure

2021
Focus on visibility

2022
Focus on partnerships (industrial and public sector relations)

2023
Focus on innovation and knowledge transfer
QUESTIONS & ANSWERS

Use the « Q&A » button below!
Thème 1:
Clusters, un outil au service de l’interdisciplinarité dans la recherche

Thème 2:
L’interdisciplinarité dans l’éducation

Thème 3:
Gender equality at ENAC

Thème 4:
Open Science at ENAC

Thème 5:
Devenir une faculté leader en durabilité
ENAC 2020
GENERAL ASSEMBLY
ENAC laureates of thesis awards 2019/2020

Moderation: Prof. Vincent Kaufmann
Dr. Fabian Barras
PhD at the Computational Solid Mechanics Laboratory, LSMS

When dynamic cracks meet disorder: A journey along the fracture process zone

Dr. Aida Camaselle
PhD at the Composite Construction Laboratory, CCLAB

Two-dimensional crack growth in FRP laminates and sandwich panels
When dynamic cracks meet disorder: A journey along the fracture process zone

1. Dramatic events driven by dynamic rupture:

2. Fracture process zone
When dynamic cracks meet disorder:
A journey along the fracture process zone

3. Disorder

4. Journey between fracture problems

From microcontacts failure to frictional rupture

Dir.: Jean-François Molinari /LSMS
EPFL Outstanding PhD Thesis Distinction in Architecture and Science of the City 2019

Dr. Judith Drouilles
PhD at the Laboratory of Architecture and Sustainable Technologies, LAST

Quartiers résidentiels périurbains en transition : Comparaison multicritère de scénarios prospectifs à l’horizon 2050
Quartiers résidentiels périurbains en transition

Président du jury
Prof. Vincent Kaufmann
Directeur de thèse
Prof. Emmanuel Rey

Rapporteurs:
Prof. Béatrice Mariolle
Prof. Sigrid Reiter
Dr. Elena Cogato-Lanza

Défense publique le 27 août 2019
Quel est le potentiel de transition vers la durabilité des quartiers périurbains de maisons individuelles à l’horizon 2050 ?

Il ne faut pas perdre de vue que le scénario demeure un paradigme qui tente d’établir un pont, encore précaire, entre l’univers de la science et celui de l’art, qui, les deux sont inséparables de l’approche prospective.

ENAC Doctoral Research Award 2019-2020 in the field of environmental engineering

Dr. Oliver Selmoni
PhD at the Laboratory of Geographic Information Systems, LASIG for his publication entitled

Seascape genomics as a new tool to empower coral reef conservation strategies: An example on north-western Pacific Acropora digitifera
Seascape genomics to empower coral reef conservation strategies

Heat stress frequency

Yaeyama
Miyako
Okinawa
Amami
Tokara
Osumi
Taiwan

Probability adaptation
- low
- high

LASIG

Probability of adaptation

Heat stress frequency

0.056 0.058 0.060 0.062 0.064 0.066

0.2 0.4 0.6 0.8
Thank you for your attention
DROP YOUR IDEAS in the suggestion box

https://go.epfl.ch/ENAC_SuggestionBox
Thank you for your attention