SUSTAINABILITY IN THE BUILT ENVIRONMENT - A DANISH RESEARCH LANDSCAPE

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Gabriella Rossi
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UIA2023CPH
CITA Centre for Information Technology and Architecture
Royal Danish Academy of Fine Arts
Schools of Architecture, Design and Conservation
INTRODUCTION

The UIA2023CPH World Congress of Architects ‘SUSTAINABLE FUTURES - LEAVE NO ONE BEHIND’ promotes, discusses, develops and showcases architecture as a crucial tool to achieving the UN 17 Sustainable Development Goals by 2030. The overarching goal of the UIA2023 Congress - Science Track is to foster the knowledge needed for architecture and the built environment to understand, build and fulfill its active role in achieving the UN Sustainable Development Goals.

This national mapping presents the Danish research landscape in sustainable futures through the built environment organised across the six research panels that shape the UIA2023CPH Science Track.

The aim of the mapping is to understand the current state of the art in research across architecture, landscape design and architectural engineering. The mapping highlights existing research efforts across key institutions, their research leads, projects and PhDs in order to tie them to the UIA2023CPH project.

This volume is understood as a first step into this mapping and describes the profiles of 9 institutions, 110 researchers and 72 PhDs and PostDocs.
Architecture affects our actions across environment, resource and society.

The Congress is divided into six panels that together frame the 17 UN Sustainable Development Goals. The panels are developed using Professor Katherine Richardson’s model for understanding the overarching strategising of the goals as an interfacing between the needs of the planet and the needs of humanity. By moving from concerns of the environment, through resources to the needs of humanity, the goals are grouped into topics that engage existing research communities in academia and industry.

Our aim is to articulate the panels to frame the special agency architecture and the built environment have across the Goals – shaping our society; the way we live, the way we interact and the way we build - and how the effort to change our practices can lead to a sustainable, equitable and inclusive future for all.

**DEFINING SIX PANELS FOR THE UIA2023CPH SCIENCE TRACK**

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<td>End hunger, achieve food security and improved nutrition and promote sustainable agriculture.</td>
<td>Ensure healthy lives and promote well-being for all ages.</td>
<td>End poverty in all its forms everywhere.</td>
<td>Ensure gender equality and empower all women and girls.</td>
<td>Strengthen the means of implementation and revitalise the Global Partnership for Sustainable Development.</td>
<td>Promote inclusive, safe, accessible and sustainable infrastructure for sustainable development; provide access to justice for all and build effective, accountable and inclusive institutions at all levels.</td>
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</tbody>
</table>
The built environment exists within a larger, more powerful natural ecosystem. As climate patterns change, so must the role of buildings, settlements and cities and how they interface with their environment, protecting especially vulnerable residents. ‘Design for Climate Adaptation’ includes both high and low-tech solutions to environmental design which work to make buildings smarter and more self-sufficient. New adaptive methods for rainwater harvesting, heating and cooling, living roofs and new renewable energy technologies allow us to rethink how a building is operated and how it can contribute to its environment. Outside of the building, climate change is addressed by resilient landscaping; design for rising sea levels, flooding and stormwater protection as well as protection against desertification, drought and wildfire. ‘Design for Climate Adaptation’ allows us to mitigate against changing environments and encourage a symbiotic ecology, promoting peaceful and cooperative adaptation of the built environment.

Design shapes our world, from the places we live in to objects we use every day. As we grow more aware of the limits of our planet’s resources, shifting from an exploitative to a restorative, regenerative and circular design ideology becomes necessary. ‘Design for Rethinking Resources’ examines approaches to resourcefulness in our practice. It includes: The materials we use: the engineering of new materials, recycling of waste and use of bio-based materials lends the possibility to start the cycle of production sustainably. The methods we apply: from computational design and digital technologies, to crafts revival and vernacular building techniques allow us to innovate localised design solutions while also supporting local economies. And finally, the life-cycles we expect of our building: from design for disassembly, programmed decay, life cycle analysis and rethinking the durability of our building. ‘Design for Rethinking Resources’ means re-assessing all aspects of the production and consumption cycles with sustainability in mind.
Sustainable futures are dependent on the thoughtful planning of cities and communities. Rapid urbanization and high-density cities are putting unprecedented pressures on the way we live. ‘Design for Resilient Communities’ investigates multiple perspectives defining the way we live. It includes:

Economic perspectives: how self-sustaining communities, responsible land use and transformation of existing building stock reshapes the economies of our communities and allows us to change the long-term benefits for all inhabitants. Social perspectives: how the design of the public realm, both physical and digital, affects inclusiveness and the way we live in our communities and how augmenting our lives with smart technologies can provide insight into wide-scale patterns changing the way we occupy and interact within the built environment. And Environmental perspectives: how the infrastructures of our communities can be shaped to reduce our carbon footprint and allow green living. ‘Design for Resilient Communities’ asks how these perspectives can be developed and contribute to a more sustainable development of communities and urban space.

The built environment affects our physical and mental health as humans. With increases in population and unequal infrastructure, considerations of access to healthcare, the spread of diseases and preventable premature mortality are of major concern for sustainable futures. ‘Design for Health’ problematises what design for healthy communities can be. From the direct design of hospitals and places for healing to the strategic design of healthcare facilities to reduce the transmission of communicable disease or focus on vulnerable groups, architecture contributes to the reduction of mortality rates and better health. Beyond direct healthcare, taking action to improve basic infrastructure such as developing sewage systems for informal settlements or better building practices for disease prevention, sharply increases public health and wellbeing. Finally, design can promote individual health by shaping mobility and accessibility for all, creating spaces for an active outdoor life and ensuring indoor climate health and comfort. ‘Design for Health’ engages the breadth of society moving from the public efforts of healthcare provision to the well-being of each individual person.
The built environment exists within a larger, more powerful natural ecosystem. As climate patterns change, so must the role of buildings and how they interface with their environment. 'Design for Climate Adaptation and Protection' includes both high and low tech solutions to environmental design which work to make buildings smarter and more self-sufficient. New adaptive methods for rainwater harvesting, heating and cooling, living roofs and new renewable energy technologies allow us to rethink how a building is operated and how it can contribute to its environment. Outside of the building, resilient landscaping addresses concerns including; design for rising sea levels, flooding and stormwater protection as well as desertification, drought and wildfire. ‘Design for Climate Adaptation and Protection’ allow us to mitigate against changing environments and encourage a symbiotic ecology that allows for peaceful and cooperative adaptation of the built environment.

The ideal for a sustainable future is that no one is left behind and to endeavour to reach the furthest behind first. ‘Design for Inclusivity’ considers how a more egalitarian and humanitarian design ethos can be promoted: how architecture and the built environment can encourage awareness of and dialogue about the socio-economic and political division between the Global South and the Global North and contribute to a built environment designed for all. It addresses universal design and the shaping of gender equal environments and it discusses: how vulnerable and marginalised groups can be included through the careful consideration of cultural differences and strategies for cultural preservation, how social housing strategies and design of inclusive community buildings can work to cement cohesiveness across communities, how responsible improvement of informal settlements can stimulate social equality, and how innovation can offer new solutions to emergency shelters, refugee housing and post-disaster regeneration. ‘Design for Inclusivity’ ensures no one is left behind by critically addressing our understanding of design agency and re-drawing a more inclusive practice.

‘Design for Partnerships of Change’ happens when we collaboratively work towards peace, social justice, and a sustainable future with strong coalitions. Implementing changes requires partnerships between governments, the private sector and civil society. ‘Design for Partnerships of Change’ examines how architecture and the built environment can encourage such partnerships, the agency they embody and the results they can achieve. Architecture can be an important driver for change in its ability to be an instrument of governance from the forming of local policies and private-public partnerships, a partner in creating new sustainable practice, to the creation of participatory design methods for democratic and collaborative community planning that includes all. It can be a critical geopolitical method for cultural discourse and human rights, creating awareness of territory and border issues. And it can be used as a voice to start interdisciplinary dialogues by critical curation and dissemination. ‘Design for Partnerships of Change’ challenges the boundaries of architectural design, its repercussions and our understanding of why, how and by whom architecture is produced.
Panel 1: Climate Adaptation
Total Actors: 37
Senior Researchers: 23
PhD Students: 13
PostDocs: 1

Panel 2: Rethinking Resources
Total Actors: 46
Senior Researchers: 30
PhD Students: 16

Panel 3: Resilient Communities
Total Actors: 38
Senior Researchers: 22
PhD Students: 16

Panel 4: Design for Health
Total Actors: 12
Senior Researchers: 8
PhD Students: 4

Panel 5: Inclusivity
Total Actors: 30
Senior Researchers: 14
PhD Students: 15
PostDocs: 1

Panel 6: Partnerships of Change
Total Actors: 17
Senior Researchers: 13
PhD Students: 4

Total: 182
Senior Researchers: 110
PhD and Post Docs: 72
CONTENTS

Royal Danish Academy of Fine Arts
Aarhus School of Architecture
University of Copenhagen
Aalborg University
Technical University of Denmark
University of Southern Denmark
Danish Technological Institute
Roskilde University
Aarhus University
ROYAL DANISH ACADEMY OF FINE ARTS
SCHOOL OF ARCHITECTURE

Senior Researchers : 24
PhDs: 13
NATALIE MOSSIN

Architect and Head of Institute

IBT: Institute for Architecture and Technology
Royal Danish Academy of Fine Arts (KADK)

PANEL 6: PARTNERSHIPS OF CHANGE
SDG 17 - PARTNERSHIP FOR THE GOALS

Research Focus
• Organizational developments
• Interaction on building value chain
• Sustainable construction frameworks

METTE RAMSGAARD THOMSEN

Architect, Professor, and Head of CITA

Center for IT and Architecture (CITA)
IBT: Institute for Architecture and Technology
Royal Danish Academy of Fine Arts (KADK)

PANEL 2: RETHINKING RESOURCES
SDG 12 - RESPONSIBLE CONSUMPTION, SDG 9 - INNOVATION AND INFRASTRUCTURE

Research Focus
• Digital technologies and fabrication
• New materials
• Information modelling
• Textile architecture
• Digital crafting

PhD Researchers

Yuliya Sinke
Design of highly specified functionally graded CNC-knit-ted membranes for lightweight structures
2019-2022

Candidate
PREDICTIVE RESPONSE
Machine Learning for material specification
2019-2022

Veronika Hodges
A transformative architecture made in paper
2018-2021
PHIL AYRES

Architect and Associate Professor

Center for IT and Architecture (CITA)
IBT: Institute for Architecture and Technology
Royal Danish Academy of Fine Arts (KADK)

Research Focus
• Bio-Hybrid systems
• Fungal architecture
• Digital architecture design and simulation
• Unconventional robotics

PhD Researchers
Adrien Rigobello
FUNGAR
Mycelium-based architectural components
2020-2023

ANNE BEIM

Professor and Head of CINARK

Center for Industrialized Architecture (CINARK)
IBT: Institute for Architecture and Technology
Royal Danish Academy of Fine Arts (KADK)

Research Focus
• Industrialized architecture
• Circular building components
• Ecological architecture
• Applied materials

PhD Researchers
Line Kjær Frederiksen
Resource Conservation
Tectonic Design Strategies
2017-2020

PANEL 2: RETHINKING RESOURCES
SDG 12 - RESPONSIBLE CONSUMPTION, SDG 9 - INNOVATION AND INFRASTRUCTURE

PANEL 2: RETHINKING RESOURCES
SDG 12 - RESPONSIBLE CONSUMPTION, SDG 9 - INNOVATION AND INFRASTRUCTURE
JAKOB BRANDTBERG KNUDSEN
Architect and Dean of School of Architecture

IBT: Institute for Architecture and Technology
Royal Danish Academy of Fine Arts (KADK)

Research Focus
- Health and architecture
- Architecture for the prevention of malaria
- Digital modelling of indoor climate
- Affordable housing
- Tropical architecture

PhD Researchers
 Candidate
The Impact of Architecture on Epidemics 2020-2023

Candidate
Architecture and Health 2020-2023

PANEL 4: Design for HEALTH
SDG 3 - GOOD HEALTH AND WELLBEING

OLGA POPOVIC LARSEN
Professor and Architect

IBT: Institute for Architecture and Technology
Royal Danish Academy of Fine Arts (KADK)

Research Focus
- Innovative sustainable timber structures
- Reciprocal frame architecture
- New bio-based materials
- Emergency architecture
- Adaptable building elements

Collaborations
- University of Oxford, UK
- Mahidol-Oxford Tropical Medicine Research Unit, Thailand
- Durham University, UK
- London School of Hygiene & Tropical Medicine, UK

Candidate
The Impact of Architecture on Epidemics 2020-2023

Candidate
Architecture and Health 2020-2023

PANEL 2: RETHINKING RESOURCES/PANEL 5: INCLUSIVITY
PELLE MUNCH-PETERSEN

Architect and Assistant Professor

IBT: Institute for Architecture and Technology
Royal Danish Academy of Fine Arts (KADK)

Research Focus
- Circular facade design
- Circular building economy
- Material architecture tectonics

PANEL 2: RETHINKING RESOURCES
SDG 12 - RESPONSIBLE CONSUMPTION, SDG 9 - INNOVATION AND INFRASTRUCTURE

MASASHI KAJITA

Architect and Assistant Professor

IBD: Institute for Architecture and Design
Royal Danish Academy of Fine Arts (KADK)

Research Focus
- Body and disabilities in architecture
- Universal design for inclusivity
- Accessibility for all
- Universal design pedagogy

PANEL 5: INCLUSIVITY
SDG 16 - PEACE AND JUSTICE, SDG 10 - REDUCED INEQUALITIES

PhD Researchers

Roberta Cassi
Disability, Experience and Architecture: Towards Inclusive Sport and Leisure Buildings
2018-2021
ANNE ROMME

Architect, Associate Professor, Vice Head of Institute

IBK: Institute for Architecture and Culture
Royal Danish Academy of Fine Arts (KADK)

PANEL 6: PARTNERSHIPS OF CHANGE/
PANEL 5: INCLUSIVITY

Research Focus
- Self-build
- Dialogical processes
- Alternative housing strategies
- Digital material technology

NICOLAI BO ANDERSEN

Architect and Associate Professor

IBK: Institute for Architecture and Culture
Royal Danish Academy of Fine Arts (KADK)

PANEL 2: RETHINKING RESOURCES/
PANEL 5: INCLUSIVITY

Research Focus
- Cultural heritage
- Transformation
- Conservation
- Sustainability
CHRISTOFFER HARLANG

Architect and Professor
IBK: Institute for Architecture and Culture
Royal Danish Academy of Fine Arts (KADK)

Research Focus
- Resilient architecture
- Building culture transformation
- Urban densification
- Transformations

PANEL 3: RESILIENT COMMUNITIES/
PANEL 2: RETHINKING RESOURCES

SØREN VADSTRUP

Architect and Associate Professor
IBK: Institute for Architecture and Culture
Royal Danish Academy of Fine Arts (KADK)

Research Focus
- Building restoration with traditional craft techniques
- Historic building technology and material science
- Sustainable building heritage and building restoration
- Intangible cultural heritage

PANEL 5: INCLUSIVITY/
PANEL 2: RETHINKING RESOURCES
THOMAS KAMPMANN
Architect and Associate Professor
IBK: Institute for Architecture and Culture
Royal Danish Academy of Fine Arts (KADK)

Research Focus
- Building archeology
- Sustainable architecture
- Energy performance of windows

PhD Researchers
Victor Boye Julebæk
Material Quality – Spatial Character
2018-2022

MORTEN BIRK JØRGENSEN
Architect and Assistant Professor
IBK: Institute for Architecture and Culture
Royal Danish Academy of Fine Arts (KADK)

Research Focus
- Sustainable building heritage
- Sustainable transformation of rural buildings
- Cultural heritage

PhD Researchers
Peter Møller Rasmussen
Rural Development / “Precarious Rural” Project
NIELS GRØNBAEK

Architect and Associate Professor

IBK: Institute for Architecture and Culture
Royal Danish Academy of Fine Arts (KADK)

PANEL 6: PARTNERSHIPS OF CHANGE/
PANEL 5: INCLUSIVITY

Research Focus

- Critical sustainability
- Danish welfare landscapes
- History and culture

DAG PETERSSON

Art Historian and Associate Professor

IBK: Institute for Architecture and Culture
Royal Danish Academy of Fine Arts (KADK)

PANEL 6: PARTNERSHIPS OF CHANGE/
PANEL 5: INCLUSIVITY

Research Focus

- Critical sustainability
- Spaces of Danish welfare
- Urban poverty
- Climate change and nature
**JONNA MAJGAARD KRARUP**
Architect and Associate Professor

IBL: Institute of Architecture
Urbanism and Landscape
Royal Danish Academy of Fine Arts (KADK)

**Research Focus**
- Climate adaptation
- Landscape and public space
- Urban ecology

**PhD Researchers**
Kristine Cecilie Holten Andersen
Adaptation of Cities to Landscape and Climate: Prospects and Methods in Urban Planning
2018-2021

**DEANE SIMPSON**
Architect and Professor

IBL: Institute of Architecture, Urbanism and Landscape
Royal Danish Academy of Fine Arts (KADK)

**Panel 1: Climate Adaptation**
SDG 13 - Climate Action, SDG 14 Life Below Water, SDG 15 Life on Land

**Research Focus**
- Welfare urbanism
- Urban securitization
- Demographic change
- Urban regimes of sustainability

**PhD Researchers**
Max Pedersen
SPACES OF DANISH WELFARE
2017-2021
JØRGEN ESKEMOSE

Architect, Town Planner, and Associate Professor Emerita

IBL: Institute of Architecture, Urbanism and Landscape
Royal Danish Academy of Fine Arts (KADK)

PhD Researchers

Johan Mottelson
Casas Melhoradas
2018-2021

Panel 3: Resilient Communities

Research Focus

- Informal urbanization in the Global South
- Informal settlement improvement projects in Sub-Saharan Africa
- Land rights
- Urban densification

Panel 5: Inclusivity

Panel 4: Design for Health

RENÉ KURAL

Associate Professor and Director of the Centre of Sports and Architecture

IBL: Institute of Architecture Urbanism and Landscape
Royal Danish Academy of Fine Arts (KADK)

Research Focus

- Health, movement and sport in cities
- Spaces for body culture
- Spaces for seniors
- Activity and health enhancing Physical Environments Network (APEN)
RUNA JOHANNESEN

Architect and Assistant Professor

IBL: Institute of Architecture
Urbanism and Landscape
Royal Danish Academy of Fine Arts (KADK)

Research Focus
- Spaces of Danish Welfare
- Critical sustainability
- Political architecture
- Architecture and destruction in occupied Palestine

PANEL 6: PARTNERSHIPS OF CHANGE/
PANEL 5: INCLUSIVITY

GUSTAVO RIBEIRO

Architect, Urban Planner and Associate Professor

IBL: Institute of Architecture
Urbanism and Landscape
Royal Danish Academy of Fine Arts (KADK)

Research Focus
- Sustainable urban development
- Strategic spatial planning and climate change
- Strategic urban governance
- Participatory processes

PANEL 3: RESILIENT COMMUNITIES/
PANEL 6: PARTNERSHIPS OF CHANGE
CAMILLA HEDEGAARD MØLLER

Architect and Associate Professor

IBL: Institute of Architecture
Urbanism and Landscape
Royal Danish Academy of Fine Arts (KADK)

Research Focus

- Transformation of public housing
- Spatial organization for learning
- Inclusive public space
- Housing in low income neighborhoods
- Participatory processes

BORIS BRORMAND JENSEN

Architect, Urban Planner and Associate Professor

IBL: Institute of Architecture
Urbanism and Landscape
Royal Danish Academy of Fine Arts (KADK)

Research Focus

- Participatory processes
- Sustainable urban development
- Inclusive urban design
- Urban processes of change

PANEL 3: RESILIENT COMMUNITIES/
PANEL 6: PARTNERSHIPS OF CHANGE

PANEL 5: INCLUSIVITY/
PANEL 6: PARTNERSHIPS OF CHANGE
AARHUS SCHOOL OF ARCHITECTURE

Senior Researchers : 23
PhDs: 6
PostDocs: 1
TORBEN NIELSEN

Architect and Head of School
Head of School
Aarhus School of Architecture

PANEL 3: RESILIENT COMMUNITIES
SDG 11 - SUSTAINABLE CITIES AND COMMUNITIES

Research Focus
- Engaging through architecture
- Responsible urban regeneration

Collaborations
Resilience Lab Denmark (Vejle)

TOM NIELSEN

Architect, Professor, and Lab Coordinator
ResearchLab1:
Transformation, Architecture and Territories
Aarhus School of Architecture

PANEL 3: RESILIENT COMMUNITIES/
PANEL 5: INCLUSIVITY

Research Focus
- Urban and landscape planning
- Welfare architecture

PostDoc Researchers
Sidse Martens Gudmand-Høyer
Social Housing and Welfare Architecture
PANEL 1: CLIMATE ADAPTATION
SDG 13 - CLIMATE ACTION, SDG 14 LIFE BELOW WATER, SDG 15 LIFE ON LAND

KATRINA WIBERG
Landscape Architect and Assistant Professor
ResearchLab1: Transformation, Architecture and Territories
Aarhus School of Architecture

Research Focus
• Resilient waterscapes
• Coastal development
• Rising sea levels and settlements change

PhD Researchers
Soo Ryu
Urban seascaping as a catalyst for urban transformation
2019-2022

Collaborations
Affiliated consultant at Gustin Landskab

PANEL 3: RESILIENT COMMUNITIES

MOGENS MORGEN
Architect and Associate Professor
ResearchLab1: Transformation, Architecture and Territories
Aarhus School of Architecture

Research Focus
• Welfare architecture in Denmark
• Socially vulnerable neighborhoods research
• Social housing
• Urban transformations

PhD Researchers
Mathilde Kirkegaard
Transformation of cultural environments
2018-2021

Janni Rosenberg Bendsen
Welfare city representation and visual culture
2019-2022
ANNE METTE BOYE

Architect and Associate Professor

ResearchLab1: Transformation, Architecture and Territories
Aarhus School of Architecture

Research Focus

• Transformation of industrial areas
• Resilient waterscapes

PANEL 3: RESILIENT COMMUNITIES/
PANEL 1: CLIMATE ADAPTATION

SIMON OSTENFELD PEDERSEN

Architect and Associate Professor

ResearchLab1: Transformation, Architecture and Territories
Aarhus School of Architecture

Research Focus

• Transformation of cultural environments
• Adaptive reuse
• Architectural heritage

PANEL 5: INCLUSIVITY/
PANEL 2: RETHINKING RESOURCES
BIRGITTE EYBYE TANDERUP
Architect and Assistant Professor
ResearchLab1: Transformation, Architecture and Territories
Aarhus School of Architecture

Research Focus
• Vernacular architecture
• Architectural sustainability as a design parameter
• Sustainability in architectural heritage

PANEL 2: RETHINKING RESOURCES/
PANEL 5: INCLUSIVITY

JENS CHRISTIAN PASGAARD
Architect and Associate Professor
ResearchLab1: Transformation, Architecture and Territories
Aarhus School of Architecture

Research Focus
• Collaborative place-making interventions
• Transformations
• Redesigning tourism

PANEL 6: PARTNERSHIPS OF CHANGE /
PANEL 3: RESILIENT COMMUNITIES
STEFAN DARLAN BORIS
Architect and Associate Professor
ResearchLab1: Transformation, Architecture and Territories
Aarhus School of Architecture

Research Focus
- Garden nature laboratory
- Transformation and adaptation
- Biodiversity

PANEL 1: CLIMATE ADAPTATION/
PANEL 3: RESILIENT COMMUNITIES

MARTIN ODGAARD
Architect and Assistant Professor
ResearchLab1: Transformation, Architecture and Territories
Aarhus School of Architecture

Research Focus
- The relationship between urban development and nature
- Biodiversity
- Rethinking urban habitats

PANEL 3: RESILIENT COMMUNITIES/
PANEL 1: CLIMATE ADAPTATION
MO MICHElsen STOCHHOLM KRAG

Architect and Assistant Professor

ResearchLab1:
Transformation, Architecture and Territories
Aarhus School of Architecture

PANEL 3: RESILIENT COMMUNITIES/
PANEL 5: INCLUSIVITY

Research Focus
• Revitilization of rural areas
• Transformation of abandoned buildings
• Critical Practice in preservation of rural identity

JONATHAN FOOTE

Architect, Associate Professor and Lab Coordinator

ResearchLab2:
Technology, Building Cultures and Habitation
Aarhus School of Architecture

PANEL 2: RETHINKING RESOURCES
SDG 12 - RESPONSIBLE CONSUMPTION, SDG 9 - INNOVATION AND INFRASTRUCTURE

Research Focus
• Local resource usage - Nordic marble
• Material research
DAVID TAPIAS MONNÉ

Architect and Associate Professor

ResearchLab2: Technology, Building Cultures and Habitation
Aarhus School of Architecture

PANEL 5: INCLUSIVITY/
PANEL 6: PARTNERSHIPS OF CHANGE

Research Focus

- Collaborative housing
- Resilient and inclusive building systems
- Participatory processes

MICHAEL ASGAARD ANDERSEN

Architect and Associate Professor

ResearchLab2: Technology, Building Cultures and Habitation
Aarhus School of Architecture

PANEL 5: INCLUSIVITY/
PANEL 1: CLIMATE ADAPTATION

Research Focus

- Collaborative housing
- Sustainable housing design
**RUTH BAUMEISTER**

**Architect and Associate Professor**

ResearchLab2: Technology, Building Cultures and Habitation
Aarhus School of Architecture

**PANEL 3: RESILIENT COMMUNITIES/ PANEL 5: INCLUSIVITY**

**Research Focus**
- The life-cycle of 20th century office buildings
- Material, economic, and social sustainability in building life-cycle analysis

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**ANDERS KRUSE AAGAARD**

**Architect and Assistant Professor**

ResearchLab2: Technology, Building Cultures and Habitation
Aarhus School of Architecture

**PANEL 2: RETHINKING RESOURCES**

SDG 12 - RESPONSIBLE CONSUMPTION, SDG 9 - INNOVATION AND INFRASTRUCTURE

**Research Focus**
- Workflows for wood architecture
- Test building with irregular wood
- Sustainability of wood
- Material behaviors

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**PANEL 2: RETHINKING RESOURCES**

SDG 12 - RESPONSIBLE CONSUMPTION, SDG 9 - INNOVATION AND INFRASTRUCTURE

**Research Focus**
- Workflows for wood architecture
- Test building with irregular wood
- Sustainability of wood
- Material behaviors
DAGMAR REINHARDT

Architect and Associate Professor

ResearchLab2: Technology, Building Cultures and Habitation
Aarhus School of Architecture

PANEL 2: RETHINKING RESOURCES
SDG 12 - RESPONSIBLE CONSUMPTION, SDG 9 - INNOVATION AND INFRASTRUCTURE

Research Focus
- Robotics in architecture
- Human centric spaces
- Digital design thinking
- Synthetic biologies for coral reefs

PhD Researchers
- Ryan Hughes
  Digital Timber
  2019-2022
- Jens Pedersen
  On-site robotic timber
  2019-2022

Collaborations
Owner of the design practice
Reinhardt-Jung

NIELS MARTIN LARSEN

Architect and Associate Professor

ResearchLab2: Technology, Building Cultures and Habitation
Aarhus School of Architecture

PANEL 2: RETHINKING RESOURCES
SDG 12 - RESPONSIBLE CONSUMPTION, SDG 9 - INNOVATION AND INFRASTRUCTURE

Research Focus
- Workflows for wood architecture
- Building with irregular wood
- Sustainability of wood
- Material behaviors

Owner of the design practice
Reinhardt-Jung

Digital Timber
2019-2022

On-site robotic timber
2019-2022
CHRIS THURLBOURNE

Architect and Associate Professor

ResearchLab2: Technology, Building Cultures and Habitation
Aarhus School of Architecture

Research Focus
• Recovering plastic for new architectural building components
• Material tectonics

CAROLINA DAYER

Architect and Assistant Professor

ResearchLab2: Technology, Building Cultures and Habitation
Aarhus School of Architecture

Research Focus
• Critical regionalism
• Architectural drawing, material culture and habitation
• Material imagination in everyday habits
• Activism in architecture
THOMAS HILBERTH

Architect, Psychologist,
Associate Professor,
and Program Coordinator

ResearchLab3:
Emerging Sustainable Architecture
Aarhus School of Architecture

PANEL 3: RESILIENT COMMUNITIES/
PANEL 6: PARTNERSHIPS OF CHANGE

Research Focus
- Global cities
- Urban cultures
- Local construction
- Participatory design projects

PhD Researchers
Ricelli Laplace Resende
Sustainable building practice for behavioral change
2018-2021

Stine Dalager Nielsen
Architectural Sustainability as a Cultural Practice
2019-2022

Collaborations
Umeå Arkitekskolen

URSZULA KOZMINSKA

Architect, Engineer,
and Assistant Professor

ResearchLab3:
Emerging Sustainable Architecture
Aarhus School of Architecture

PANEL 2: RETHINKING RESOURCES/
PANEL 1: CLIMATE ADAPTATION

Research Focus
- Nordic Sustainable Architecture
- Sustainability theory
- Circular design
- Alternative materials
- Zero energy refurbishments

Ricelli Laplace Resende
Sustainable building practice for behavioral change
2018-2021

Stine Dalager Nielsen
Architectural Sustainability as a Cultural Practice
2019-2022
Research Focus

- Sustainable architecture discourse and theory
- Sustainable modes of practice
- Resilient design principles
- Nordic sustainable architecture
- Environmental design
UNIVERSITY OF COPENHAGEN

Senior Researchers : 26
PhDs: 24
MARINA BERGEN JENSEN

Horticulturist, Professor and Head of Landscape Technology Group

Section for Landscape Architecture and Planning
Institute of Geosciences and Natural Resource Management, Faculty of Science
University of Copenhagen

Research Focus

- SDG frameworks for sustainable climate adaptation
- Resilient landscapes and green infrastructure
- Water quality, nature-based treatment and reuse options

PhD Researchers

Lotte Fjendbo Møller Francis
Green Roofs - Services and Aesthetics
2018-2021

Emilia Danuta Lausen
Vertical green stormwater elements - technology and perception
2016-2020

Guohan Zhao
Rapid 2D Flood Modeling, 2015-2020

HENRIK VEJRE

Agricultural Scientist and Professor

Section for Landscape Architecture and Planning
Institute of Geosciences and Natural Resource Management, Faculty of Science
University of Copenhagen

Research Focus

- Urban climate action through landscape
- Landscape management
- Landscape planning
- Urban fringe
- Copenhagen cultural landscape

PhD Researchers

Gaoyuan Yang
Research on residents’ preference to urbanized landscapes in rural construction

Tongyun Du
Social Impact of contemporary Urban renewal
2019-2022

Hanyan Zhang
The potential of urban trees on the reduction of rainwater runoff in areas of Denmark

Haiyun Xu
Research on construction of China “Tibetan-Qiang-Yi tea-horse road cultural-ecological corridor”

Nevruz Cinar Özdíl
The role of Public Realm in Urban Design
ULRIKA K. STIGSDOTTER

Landscape Architect and Professor MSO
Section for Landscape Architecture and Planning
Institute of Geosciences and Natural Resource Management, Faculty of Science
University of Copenhagen

PANEL 4: Design for HEALTH
SDG 3 - Good Health and Wellbeing

Research Focus
- Urban green space and health
- Nature-based mindfulness
- Participatory landscape design
- Nature-based stress therapy

PhD Researchers
Marie Christoffersen Gramkow
MOVE GREEN PROJECT
Design of accessibility and health-promoting nature for people with disabilities

Dorthe Djernis
Nature-Based Mindfulness: adjusting indoor mindfulness to outdoor setting

CLAUS BEIER
Chemical Engineer, Professor, and Head of Institute
Section for Landscape Architecture and Planning
Institute of Geosciences and Natural Resource Management, Faculty of Science
University of Copenhagen

PANEL 1: CLIMATE ADAPTATION
SDG 13 - Climate Action, SDG 14 Life Below Water, SDG 15 Life on Land

Research Focus
- Climate change impacts on ecosystems
- Bio-geochemical cycling in terrestrial ecosystem
- Ecosystem functioning
- Extreme ecological events

Collaborations
Aarhus University

Research Focus
- Climate change impacts on ecosystems
- Bio-geochemical cycling in terrestrial ecosystem
- Ecosystem functioning
- Extreme ecological events

Collaborations
Aarhus University
ELLEN BRAE
Landscape Architect and Associate Professor
Section for Landscape Architecture and Planning
Institute of Geosciences and Natural Resource Management, Faculty of Science
University of Copenhagen

Research Focus
- Post-industrial urban landscape
- Urban transformation and regeneration
- Theory and practice of cultural heritage
- Landscaping tools in historical perspectives

PhD Researchers
Asbjørn Jessen
RECONFIGURING WELFARE LANDSCAPES
Materialising Welfare

Lærke Sophie Keil
RECONFIGURING WELFARE LANDSCAPES
Practicing Welfare Landscapes

JENS VILLIAM HOFF
Political Scientist and Professor
Department of Political Science
University of Copenhagen

Research Focus
- Sustainability and climate change governance
- Governance and citizen participation
- Use of ICT in politics
- Klima100 Advisory Board

PhD Researchers
Anne Nielsen
How cities respond to increasing climate change risk
2018-2021

Anette Gravgaard Christensen
Green Communities in the City - Civil Engagement and Citizenship in Urban Nature and Urban Ecology
2018-2021

Johanne Heesche
Transformation of suburban industrial landscapes in Loop City

Maria Toft Möller-Christensen
Collective movements and pathways to a sustainable society
2018-2021
ANNE MARGRETHE WAGNER

Architect and Assistant Professor

Section for Landscape Architecture and Planning
Institute of Geosciences and Natural Resource Management, Faculty of Science
University of Copenhagen

Research Focus
- Land use and management
- Urban transformation
- Public space
- Co-design and participatory design
- Everyday life
- Material practice
- Temporary use

ANNE TIETJEN

Architect and Associate Professor

Section for Landscape Architecture and Planning
Institute of Geosciences and Natural Resource Management, Faculty of Science
University of Copenhagen

Research Focus
- Transformation and development of cities and landscapes through spatial design
- Politics and agency of design
- Strategic planning
- Urban/rural public space
- Heritage in planning
- Research-through-design

PANEL 3: RESILIENT COMMUNITIES/
PANEL 6: PARTNERSHIPS OF CHANGE

SDG 11 - SUSTAINABLE CITIES AND COMMUNITIES
CHRISTIAN FERTNER

Urban Planner and Associate Professor
Section for Landscape Architecture and Planning
Institute of Geosciences and Natural Resource Management, Faculty of Science
University of Copenhagen

Research Focus
- Spatial planning
- Sustainable urban development
- Resource and energy efficient cities
- Land use change
- Urban sprawl
- Functional regions
- Small towns
- Spatial analysis and digital planning

PANEL 3: RESILIENT COMMUNITIES/
PANEL 2: RETHINKING RESOURCES

BETTINA LAMM

Landscape Architect and Associate Professor
Section for Landscape Architecture and Planning
Institute of Geosciences and Natural Resource Management, Faculty of Science
University of Copenhagen

Research Focus
- Interaction between the built environment and the lived life
- How temporary interventions and art strategies can contribute to a reprogramming of the interim landscape by introducing new site readings and experiences
- Temporary use as a development tool for reprogramming former industrial and derelict urban spaces.

PANEL 3: RESILIENT COMMUNITIES/
PANEL 6: PARTNERSHIPS OF CHANGE

PhD Researchers
Sophia Charlotte Rose Jerram
How art practice contributes to spatial communing

Laura Winge
Co-creation and design of urban spaces

PANEL 3: RESILIENT COMMUNITIES/
PANEL 6: PARTNERSHIPS OF CHANGE
GERTRUD JØRGENSEN
Professor
Section for Landscape Architecture and Planning
Institute of Geosciences and
Natural Resource Management, Faculty of Science
University of Copenhagen

DORTHE VARNING POULSEN
Associate Professor
Section for Landscape Architecture and Planning
Institute of Geosciences and
Natural Resource Management, Faculty of Science
University of Copenhagen

PANEL 3: RESILIENT COMMUNITIES/
PANEL 1: CLIMATE ADAPTATION

Research Focus
- Urban development
- Urban regeneration
- Use and perception of the urban environment
- Urban policies and planning
- Development and planning in peripheral rural areas
- Climate adaptation
- Strategic planning and design

PhD Researchers
Peng Ding
Urban Regeneration from the Children’s Perspective

PANEL 4: Design for HEALTH
SDG 3 - GOOD HEALTH AND WELLBEING

Research Focus
- Connections between nature and human physical, mental and social health
- Life style diseases
- Nature based therapy

Associate Professor
Section for Landscape Architecture and Planning
Institute of Geosciences and
Natural Resource Management, Faculty of Science
University of Copenhagen

Professor
Section for Landscape Architecture and Planning
Institute of Geosciences and
Natural Resource Management, Faculty of Science
University of Copenhagen
HENRIETTE STEINER

Architect and Associate Professor
Section for Landscape Architecture and Planning
Institute of Geosciences and Natural Resource Management, Faculty of Science
University of Copenhagen

HANS SKOV-PETERSEN

Senior Researcher and Head of the Research Group
GIScience and Geodesign
Section for Landscape Architecture and Planning
Institute of Geosciences and Natural Resource Management, Faculty of Science
University of Copenhagen

PANEL 3: RESILIENT COMMUNITIES
SDG 11 - SUSTAINABLE CITIES AND COMMUNITIES

Research Focus
- Indicators of urban environment
- GIS-based models of humans' spatial behavior
- Agent based models
- Geodesign technologies
- GIS in relation physical planning processes
- Data and model inaccuracy
- GIS-based communication

PhD Researchers
Mariusz Hermansdorfer
Generative Design for Digital Terrain Modelling

Kai Li

PANEL 3: RESILIENT COMMUNITIES/
PANEL 6: PARTNERSHIPS OF CHANGE

Research Focus
- The cultural role and meaning of architecture, cities and landscapes
- Emergence of cities
LI LIU
Landscape Architect and Associate Professor
Section for Landscape Architecture and Planning
Institute of Geosciences and Natural Resource Management, Faculty of Science
University of Copenhagen

Research Focus
- Climate change adaptation
- Stormwater management
- Added values
- Green infrastructure
- Nature-based solutions

PANEL 1: CLIMATE ADAPTATION/ PANEL 2: RETHINKING RESOURCES

JAN STØVRING
Landscape Architect and Senior Research Consultant
Section for Landscape Architecture and Planning
Institute of Geosciences and Natural Resource Management, Faculty of Science
University of Copenhagen

Research Focus
- Urban design as well as landscape design and landscape detailing
- The development of our built up areas and their associated challenges
- Develops innovative design responses to urban congestion and climate change
- Sustainable storm water techniques, focusing especially on the design of permeable pavements

PANEL 1: CLIMATE ADAPTATION/ PANEL 3: RESILIENT COMMUNITIES
NATALIE MARIE GULSRUD
Associate Professor
Section for Landscape Architecture and Planning
Institute of Geosciences and Natural Resource Management, Faculty of Science
University of Copenhagen

Research Focus
- Urban landscapes
- Urban sustainability science
- Urban governance
- Green infrastructure
- Environmental justice
- Transportation geography
- Smart cities
- Social ecological technological systems
- Automation

NATALIE MARIE GULSRUD
Associate Professor
Section for Landscape Architecture and Planning
Institute of Geosciences and Natural Resource Management, Faculty of Science
University of Copenhagen

Research Focus
- Urban landscapes
- Urban sustainability science
- Urban governance
- Green infrastructure
- Environmental justice
- Transportation geography
- Smart cities
- Social ecological technological systems
- Automation

LISE BYSKOV HERSLUND
Associate Professor
Section for Landscape Architecture and Planning
Institute of Geosciences and Natural Resource Management, Faculty of Science
University of Copenhagen

Research Focus
- Volunteerism
- Collective action, civil society, co-creation
- Urban climate change adaptation
- Rural development
- African cities
- European rural areas

LISE BYSKOV HERSLUND
Associate Professor
Section for Landscape Architecture and Planning
Institute of Geosciences and Natural Resource Management, Faculty of Science
University of Copenhagen

Research Focus
- Volunteerism
- Collective action, civil society, co-creation
- Urban climate change adaptation
- Rural development
- African cities
- European rural areas

PhD Researchers
Leneisja Dennie Marija Jungsberg
Local Strategies for Nordic Arctic Communities with Large-Scale Exploitation of Natural Resources

PANEL 6: PARTNERSHIPS OF CHANGE/
PANEL 5: INCLUSIVITY

PANEL 3: RESILIENT COMMUNITIES/
PANEL 6: PARTNERSHIPS OF CHANGE

PhD Researchers
Leneisja Dennie Marija Jungsberg
Local Strategies for Nordic Arctic Communities with Large-Scale Exploitation of Natural Resources
PETER STUBKJÆR ANDERSEN

Senior Advisor

Section for Landscape Architecture and Planning
Institute of Geosciences and Natural Resource Management, Faculty of Science
University of Copenhagen

Research Focus

- Landscape management and planning with special focus on landscape ecology, ecosystem services, landscape multi-functionality, and innovative landscape planning processes

PANEL 1: CLIMATE ADAPTATION/
PANEL 3: RESILIENT COMMUNITIES

OLE FRYD

Civil Engineer and Associate Professor

Section for Landscape Architecture and Planning
Institute of Geosciences and Natural Resource Management, Faculty of Science
University of Copenhagen

Research Focus

- Integration of strategic planning, physical urban design and environmental sustainability with a special emphasis on integrated urban water management and the planning and design of urban green infrastructure

PANEL 1: CLIMATE ADAPTATION/
PANEL 3: RESILIENT COMMUNITIES
**Panel 4: Design for HEALTH**

**Research Focus**
- Interdisciplinary research on the relationship between natural environments and human health
- Nature-Based Therapy (NBT) for various patient and client groups
- How natural environments can promote health
- Health-promoting natural environments and activities for people with mobility disabilities

**Panel 3: Resilient Communities**

**Research Focus**
- Drone filming
- Perception
- Landscape architecture methodology
- Atmosphere
- Transformation
- Experimental phenomenology
- Film and emotion
- Co-creation

**Panel 6: Partnerships of Change**

**Research Focus**
- Interdisciplinary research on the relationship between natural environments and human health
- Nature-Based Therapy (NBT) for various patient and client groups
- How natural environments can promote health
- Health-promoting natural environments and activities for people with mobility disabilities
SVAVA RIESTO
Associate Professor
Section for Landscape Architecture and Planning
Institute of Geosciences and Natural Resource Management, Faculty of Science
University of Copenhagen

Research Focus
- Cultural studies of urban landscapes, cities and architecture, specifically from the 20th and 21st century - focusing on their production, uses, historiographies, imaginaries and power
- Politics of historiography and urban heritage, and their intersections with urban planning, landscape architecture, and urban climate adaptation.

PhD Researchers
Anne Madsbjerg
Urban Gardens as Drivers for Livability and Community Coherence

TRINE AGERVIG CARSTENSEN
Associate Professor and Head of the Research Group
Spatial Change and Planning
Section for Landscape Architecture and Planning
Institute of Geosciences and Natural Resource Management, Faculty of Science
University of Copenhagen

Research Focus
- Urban planning, urban development and transformation
- Everyday life, urban life, public space and livability
- Cycling, transport culture, transport behavior and sustainable mobility
- Urban gardening and urban nature
- Public participation, co-creation, citizen sensitive
- Place attachment, place identity, place-making
- Energy efficient behavior

PANEL 3: RESILIENT COMMUNITIES/
PANEL 6: PARTNERSHIPS OF CHANGE

Anne Madsbjerg
Urban Gardens as Drivers for Livability and Community Coherence
ULRIK SIDENIUS
Assistant Professor
Section for Landscape Architecture and Planning
Institute of Geosciences and Natural Resource Management, Faculty of Science
University of Copenhagen

Research Focus
- Sound understanding of the relation between design of natural environments and human health
- Relations between landscape architecture and human health from a salutogenic approach

ZHAOWU YU
Assistant Professor
Section for Landscape Architecture and Planning
Institute of Geosciences and Natural Resource Management, Faculty of Science
University of Copenhagen

Research Focus
- Urban Ecology
- Environment Planning
- Urban Climate
- Landscape Management

PANEL 1: CLIMATE ADAPTATION/
PANEL 3: RESILIENT COMMUNITIES

PANEL 4: Design for HEALTH
SDG 3 - GOOD HEALTH AND WELLBEING
MARK TAYLOR RANDALL

Engineer and Assistant Professor

Section for Landscape Architecture and Planning
Institute of Geosciences and Natural Resource Management, Faculty of Science
University of Copenhagen

PANEL 1: CLIMATE ADAPTATION
SDG 13 - CLIMATE ACTION, SDG 14 LIFE BELOW WATER, SDG 15 LIFE ON LAND

Research Focus

- Sustainable urban drainage
- Flooding and climate change adaptation in urban areas
- Urban ecosystems
Senior Researchers: 16
PhDs: 14
PostDocs: 1
KJELD SVIDT
Agricultural Researcher, Associate Professor, and Head of Division
Building Informatics Research Group
Department of Civil Engineering
Aalborg University

PhD Researchers
Ekaterina Aleksandrova Petrova
Holistic BIM-based Sustainable Building Design and Performance Assessment
2017-2020

CAMILLA BRUNSGAARD
Civil Engineer and Associate Professor
Institute of Architecture and Media Technology,
Section of Architecture, Urban Design and Sustainable Architecture
Technical Faculty of IT and Design
Aalborg University

PhD Researchers
Mikkel Poulsen Rydborg
Climate adaptations of existing and future building stock.
2017-2020

Research Focus
- Integrating sustainability in BIM
- Virtual design and construction
- Thermal analysis in BIM
- AR and VR in construction
- Digital Project Participation in new area of Aalborg Zoo

Research Focus
- Passive housing
- Adaptive architecture in changing climates
- Climate specific architecture
- Sustainability certifications
- Education for architectural sustainability

PhD Researchers
Ekaterina Aleksandrova Petrova
Holistic BIM-based Sustainable Building Design and Performance Assessment
2017-2020

Research Focus
- Integrating sustainability in BIM
- Virtual design and construction
- Thermal analysis in BIM
- AR and VR in construction
- Digital Project Participation in new area of Aalborg Zoo

Research Focus
- Passive housing
- Adaptive architecture in changing climates
- Climate specific architecture
- Sustainability certifications
- Education for architectural sustainability

PhD Researchers
Mikkel Poulsen Rydborg
Climate adaptations of existing and future building stock.
2017-2020

Panel 1: Climate Adaptation
SDG 13 - Climate Action, SDG 14 Life Below Water, SDG 15 Life On Land

Panel 1: Climate Adaptation
SDG 13 - Climate Action, SDG 14 Life Below Water, SDG 15 Life On Land

KOMFORT HUSENÉ
-projektet og designprocesser

PhD Researchers
Mikkel Poulsen Rydborg
Climate adaptations of existing and future building stock.
2017-2020

PhD Researchers
Ekaterina Aleksandrova Petrova
Holistic BIM-based Sustainable Building Design and Performance Assessment
2017-2020

Panel 1: Climate Adaptation
SDG 13 - Climate Action, SDG 14 Life Below Water, SDG 15 Life On Land

Panel 1: Climate Adaptation
SDG 13 - Climate Action, SDG 14 Life Below Water, SDG 15 Life On Land
**MARWA DABAIEH**  
Engineer and Professor  
Institute of Architecture and Media Technology,  
Section of Architecture, Urban Design and Sustainable Architecture  
Technical Faculty of IT and Design  
Aalborg University

**Research Focus**
- Architecture for arid climates  
- Climate optimized housing for refugees  
- Vernacular low carbon construction

**PANEL 1: CLIMATE ADAPTATION/  
PANEL 5: INCLUSIVITY**

**SØREN AGGERHOLM**  
Engineer and Head of Research  
SBI Statens Byggeforskningsinstitut  
The Faculty of Engineering and Science  
Aalborg University

**Research Focus**
- Energy savings in buildings  
- Sustainable building renovation  
- Building regulations and sustainability

**PANEL 2: RETHINKING RESOURCES**  
SDG 12 - RESPONSIBLE CONSUMPTION, SDG 9 - INNOVATION AND INFRASTRUCTURE

**PhD Researchers**

**Lasse Rohde**  
Sustainable building renovation  
2016-2020
HARPA BIRGISDOTTIR
Engineer and Senior Researcher
Building Sustainability Group
SBI Statens Byggeforskningsinstitut,
The Faculty of Engineering and Science
Aalborg University

KIRSTEN GRAM-HANSSEN
Engineer and Professor
Sustainable Cities and Everyday Practice Group
SBI Statens Byggeforskningsinstitut
The Faculty of Engineering and Science
Aalborg University

PANEL 2: RETHINKING RESOURCES
SDG 12 - RESPONSIBLE CONSUMPTION, SDG 9 - INNOVATION AND INFRASTRUCTURE

Research Focus
- Life cycles assessment
- Sustainable building certification
- Climate impact of buildings
- Zero energy building renovation

PhD Researchers
Leonora Malabi Eberhardt
Implementing circular economy in the construction industry
2017-2020

Simon Peter Aslak Kondrup Larsen
Integrating Households, Utilities and Buildings
2018-2021

PANEL 3: RESILIENT COMMUNITIES
SDG 11 - SUSTAINABLE CITIES AND COMMUNITIES

Research Focus
- Housing and energy consumption
- Lifestyle, consumerism, and the environment
- Technology for energy efficiency in housing
- Everyday practice and carbon footprint
- Transition into sustainable cities

PhD Researchers and PostDocs
Line Valdorff, PostDoc
New Energy Consumer roles and smart technologies
2018-2023 EU Funds

Freja Friis
Sustainable Innovative Mobility Solutions
2019-2023

Sirid Bonderup
Dynamic Heating Accounting
2018-2021
**RIKKE SKOVGAARD NIELSEN**

Architect and Senior Researcher

Transformation of Houses and Cities Group
SBI Statens Byggeforskningsinstitut
The Faculty of Engineering and Science
Aalborg University

**Research Focus**
- Governance policies to target diversity
- Urban ethnic diversity
- Strategic management of housing schemes
- Community housing markets
- Research in Bispebjerg Copenhagen on diversity

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**CLAUS BECH-DANIELSEN**

Architect and Professor

Transformation of Houses and Cities Group
SBI Statens Byggeforskningsinstitut
The Faculty of Engineering and Science
Aalborg University

**Research Focus**
- Ecological social housing
- Urban research on vulnerable areas
- Residential construction
- Community and social sustainability

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**PANEL 5: INCLUSIVITY /
PANEL 3: RESILIENT COMMUNITIES**

**PANEL 5: INCLUSIVITY /
PANEL 6: PARTNERSHIPS OF CHANGE**
ISAK WORRE FOGED

Architect and Associate Professor
TiA – Research Group for Tectonics in Architecture
Section of Architecture, Design and Media Technology
Aalborg University

Research Focus
• Adaptive envelopes/membranes
• Thermal sensations
• Acoustic sensations
• Behavioural material systems

PhD Researchers
Mads Brath
TiA – Research Group for Tectonics in Architecture

Jinsong Liu
TiA – Research Group for Tectonics in Architecture

LEA HOLST LAURSEN

Architect, Associate Professor, and Head of Section
Head of Section of Architecture and Urban Design
Department of Architecture, Design and Media Technology
Aalborg University

Panel 1: Climate Adaptation/
Panel 3: Resilient Communities

Research Focus
• Adaptive urban design
• Urban and landscape transformation
• Local urban design responses to climate challenges

PhD Researchers
Elias Melvin Christiansen
Tectonics and the City: In search of a critical perspective on assembling the city 2017-2020

Mikkel Poulsen Rydborg
Adaptive Architecture in Changing Climates

Panel 1: Climate Adaptation/
Panel 2: Rethinking Resources

Research Focus
MARIE FRIER HVEJSEL
Architect and Associate Professor
TiA – Research Group for Tectonics in Architecture
Section of Architecture and Urban Design
Department of Architecture, Design and Media Technology
Aalborg University

PANEL 2: RETHINKING RESOURCES/
PANEL 3: RESILIENT COMMUNITIES

Research Focus
• Tectonics as critical method across the architectural scales
• The technique of spatial Gestures as social, economic, and environmental resource

PhD Researchers
Kemo Usto
‘Tectonics Without Architecture: Cultivating a New Material Culture in Architectural Design’
2019-2022

Eszter Sántha
‘Catalyst: Architecture as catalyst for social and socio-economic value creation’
2020-2023

RUNA T. HELLWIG
Architect and Professor
Sustainable Architecture (SARC)
Section Architecture and Urban Design
Department of Architecture, Design and Media Technology
Aalborg University

PANEL 1: CLIMATE ADAPTATION/
PANEL 3: RESILIENT COMMUNITIES

Research Focus
• Human-building interaction
• Indoor climate perception and comfort
• Sufficiency approaches in architecture
• Resilience and energy use of indoor environments
• Integrated architectural design
TENNA DOKTOR OLESEN TVEDEBRINK

Architect, Associate Professor and Head of Board of Studies
Sustainable Architecture (SARC)
Section Architecture and Urban Design
Department of Architecture, Design and Media Technology
Aalborg University

Research Focus
- Architecture, health and wellbeing
- Social sustainability
- User experiences and emotions
- Architectural atmosphere in healthcare

PANEL 4: Design for HEALTH / PANEL 5: INCLUSIVITY

LARS BRORSON FICH

Architect and Associate Professor
Sustainable Architecture (SARC)
Section Architecture and Urban Design
Department of Architecture, Design and Media Technology
Aalborg University

Research Focus
- Architecture, health and well being
- Atmosphere
- Cognitive science
**DITTE BENDIX LANNG**

Architect and Associate Professor

Urban design – transformation and mobilities
Section of Architecture and Urban design
Department of Architecture, Design and Media Technology
Aalborg University

**MICHAELE LAURING**

Architect and Associate Professor

Sustainable Architecture (SARC)
Section Architecture and Urban Design
Department of Architecture, Design and Media Technology
Aalborg University

**PANEL 5: INCLUSIVITY**

**PANEL 3: RESILIENT COMMUNITIES**

**Research Focus**

- Transformative capacity of urban design
- Democratizing futures
- Mobilities design - social and ecological issues of the agencies of infrastructure

**PhD Researchers**

Søren Risdal Borg

Future urban industrial landscapes:
Mapping ecological transition potentials

**PANEL 1: CLIMATE ADAPTATION**

**PANEL 5: INCLUSIVITY**

**Research Focus**

- The housing complex as a field for social and environmental sustainability
TECHNICAL UNIVERSITY OF DENMARK

Senior Researchers: 3
PhDs: 7
LISBETH M. OTTOSEN

Engineer, Associate Professor, and Head of Section
Materials & Durability Group
DTU BYG - Department of Civil Engineering
Technical University of Denmark (DTU)

PANEL 2: RETHINKING RESOURCES
SDG 12 - RESPONSIBLE CONSUMPTION, SDG 9 - INNOVATION AND INFRASTRUCTURE

Research Focus

• New construction materials
• Bio-based materials
• Recycled aggregates for concrete
• Sustainability as a business mode
• Invented the method of electrodialytic, extracting metal from ash

PhD Researchers

Julian Christ
Optimized constructions using semi-automated designing and minimum resource
2016-2021

Louise Green Pedersen
Recycling Concrete Aggregates in New Concrete
2019-2022

Nina Marie Sigvardsen
Utilization of Wood Ash in Mortar and Concrete
2017-2021

RONGLING LI

Engineer and Assistant Professor
Indoor Environment Group
DTU BYG - Department of Civil Engineering
Technical University of Denmark (DTU)

PANEL 3: RESILIENT COMMUNITIES
SDG 11 - SUSTAINABLE CITIES AND COMMUNITIES

Research Focus

• Smart cities
• Energy system modelling
• Data mining and machine learning
• Building physics and services

PhD Researchers

Morten Herget Christensen
Predicting and mobilizing energy flexibility in intelligent buildings
2016-2020

Katarzyna Marta Luc
Implementation of flexible operational schemes for buildings in a district with smart energy systems
2015-2019
LOTTE BJERGE RGAARD JENSEN

Architect and Associate Professor

Design & Process Group
BYG -Department of Civil Engineering
Technical University of Denmark (DTU)

Research Focus

- Importance of visual in sustainable design
- Social sustainability in the built environment
- Urban infrastructure analysis
- Implementing technical scientific knowledge in architectural design decisions

PhD Researchers

Nanna Brøgger Larsen
Anchoring, quantifying and implementing sustainability in the Danish building industry
2018-2022

Rune Andersen
Informing architectural design processes in a circular economy
2019-2022

PANEL 6: PARTNERSHIPS OF CHANGE/
PANEL 3: RESILIENT COMMUNITIES
UNIVERSITY OF SOUTHERN DENMARK

Senior Researchers : 6
PhDs: 2
MIKKEL K. KRAGH

Civil Engineer, Professor, and Head of Unit
SDU Civil and Architectural Engineering
Department of Technology and Innovation
University of Southern Denmark (SDU)

Research Focus
- Digitalization
- Façade design and engineering
- High performance facades
- Circular economy

PhD Researchers
Luca Breseghello
Advancing Concrete Construction through Additive Manufacturing Technologies
2019-2022

NICOLA TOLLIN

Architect, Engineer, and Professor MSO
SDU Civil and Architectural Engineering
Department of Technology and Innovation
University of Southern Denmark (SDU)

Research Focus
- Urban resilience
- Sustainable urban development
- Climate change adaptation
- Sustainability transitions

PhD Researchers
Katarzyna Alicja Wieszczecyznska
Urban Resilience
ROBERTO NABONI

Engineering and Assistant Professor
SDU Civil and Architectural Engineering
Department of Technology and Innovation
University of Southern Denmark (SDU)

Research Focus
- 3d printing in new materials
- New material research
- Design for adaptation to environmental conditions
- Robotics and wood construction

PANEL 2: RETHINKING RESOURCES/
PANEL 1: CLIMATE ADAPTATION

MORTEN BIRKVED

Engineer and Professor MSO
SDU Life Cycle Engineering
Institute of chemical engineering, Biotechnology and Environmental Technology
University of Southern Denmark (SDU)

Research Focus
- Life cycles assessment
- Circular building components
- Environmental impact of buildings

PANEL 2: RETHINKING RESOURCES/
PANEL 1: CLIMATE ADAPTATION
GANG LIU

Engineer and Professor

SDU Life Cycle Engineering
Institute of Chemical Engineering, Biotechnology
and Environmental Technology
University of Southern Denmark (SDU)

PANEL 2: RETHINKING RESOURCES/
PANEL 1: CLIMATE ADAPTATION

Research Focus

- Material/substance flow analysis
- Sustainable resource and waste management
- Urban metabolism and infrastructure stocks
- Climate change mitigation (material-energy-emission nexus)
- Industrial ecology

BO NØRREGAARD JØRGENSEN

Professor and Head of Section

Head of the Centre for Energy Informatics
SDU Center for Energy Informatics
University of Southern Denmark (SDU)

PANEL 1: CLIMATE ADAPTATION
PANEL 3: RESILIENT COMMUNITIES

Research Focus

- Smart buildings
- Energy flexibility
- Reduction of CO2 emissions in the built environment
- Smart energy solutions
DANISH TECHNOLOGICAL INSTITUTE

Senior Researchers: 9
METTE GLAVIND
Engineer and Executive Vice President
Division for Building and Construction
Danish Technological Institute

PANEL 2: RETHINKING RESOURCES
SDG 12 - RESPONSIBLE CONSUMPTION, SDG 9 - INNOVATION AND INFRASTRUCTURE

Research Focus
- Sustainable concrete
- Concrete 3d printing

NIELS MORSING
Engineer and Director
Division for Building and Construction
Danish Technological Institute

PANEL 2: RETHINKING RESOURCES
SDG 12 - RESPONSIBLE CONSUMPTION, SDG 9 - INNOVATION AND INFRASTRUCTURE

Research Focus
- Multi-story timber construction
- Sustainable construction education
- Timber material composition
- Timber protection
ANNE CHRISTINE HASTRUP

Microbiologist and Mycology Specialist
Head of BioMaterials Research Group
Danish Technological Institute

Research Focus
- Fungal decay mechanisms and wood decomposition
- Bio-based materials
- Bio-composites
- Resource usage optimization
- Mechanical treatment of plant fibers for insulation

GRITH BECH-NIELSEN

Architect and Center Manager for Masonry
Center Manager of the Masonry Section
Danish Technological Institute

Research Focus
- Restoration and renovation of existing building stock
- Improvements in masonry building quality
ANKE OBERENDER

Environmental Engineer and Section Leader
Section Leader of Buildings and Environment
Danish Technological Institute

Research Focus
- Circular resource economies
- Recycling of construction waste
- Sustainable resource usage
- Economic benefits of recycling materials

PANEL 2: RETHINKING RESOURCES
SDG 12 - RESPONSIBLE CONSUMPTION, SDG 9 - INNOVATION AND INFRASTRUCTURE

ABELONE KÖZTER

Engineer and Section Manager
Section Manager of Masonry
Danish Technological Institute

Research Focus
- Circular economy
- Design for disassembly
- Recycling of materials
- Sustainable production of brick using microwaves

PANEL 2: RETHINKING RESOURCES
SDG 12 - RESPONSIBLE CONSUMPTION, SDG 9 - INNOVATION AND INFRASTRUCTURE
PANEL 2: RETHINKING RESOURCES
SDG 12 - RESPONSIBLE CONSUMPTION, SDG 9 - INNOVATION AND INFRASTRUCTURE

KATRINE HAUGE SMITH
Environmental Engineer and Senior Consultant
Senior Consultant for Construction and Demolition Waste and Hazardous Substances
Danish Technological Institute

Research Focus
- Selective demolition
- Resource mapping
- Optimizing demolition process
- Hazardous substances
- Quality in recycling remains

OLE GRANN ANDERSSON
Engineer and Senior Specialist
Senior Specialist in Concrete
Danish Technological Institute

Research Focus
- Circular asphalt production methods
- Optimization of asphalt additives
- Introduction of recycled asphalt to new asphalt creation
- Increasing the recycling rate of asphalt
LARS NYHOLM THRANE

Engineer and Team Leader

Team leader in the Concrete Section
Danish Technological Institute

PANEL 2: RETHINKING RESOURCES

SDG 12 - RESPONSIBLE CONSUMPTION, SDG 9 - INNOVATION AND INFRASTRUCTURE

Research Focus

- Green concrete production methods
- Optimized recycling methods for concrete
- Permeable coatings for concrete
THOMAS BUDDE CHRISTIANSEN

Socio-Economist, Associate Professor, and Head of CIRCLES

Center for Interdisciplinary Research and Education in Circular Economy and Sustainability
Roskilde University

Research Focus

- Circular economy and sustainable manufacturing
- Renewable energy and biomass
- Planning policies and regulations

PhD Researchers

Emmy Laura Perez Fjalland
Circular economy in Region Zealand
2016-2020

Martin Visby Buchard
Demonstrating systemic urban development for circular and regenerative cities
2019-2023

PANEL 2: RETHINKING RESOURCES/ PANEL 6: PARTNERSHIPS OF CHANGE

Emmy Laura Perez Fjalland
Martin Visby Buchard

Circular economy in Region Zealand
2018-2020

Demonstrating systemic urban development for circular and regenerative cities
2019-2023
MARTIN BRYNSKOV

Computer Scientist, Associate Professor and Coordinator of AUSC

Coordinator of AU Smart Cities, Center for Digital Urban Transition
School of Communication and Culture
Aarhus University

PANEL 3: RESILIENT COMMUNITIES
SDG 11 - SUSTAINABLE CITIES AND COMMUNITIES

Research Focus

- Digital transformations of cities
- Development of the Internet of Things in cities
- Augmented reality
- G20 Global Smart Cities

PhD Researchers

Lasse Steenbock Vestergaard
OrganiCity: Co-creating smart cities of the future
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