



Smart Cities in Smart Regions 2018

Places for the Posters

(You will find map from end of this document)

Theme A: Green Infrastructure and Wellbeing

A1

Biochar as a new landscaping material for green landscaping

Niina Laurila & Co

South-Eastern Finland University of Applied Sciences

Biochar for a cleaner environment and new business in South Savo (Bioli) project will result in new biochar-based product concepts and networks of operators for the development and commercialization of biochar products. Bioli is a joint venture between South-Eastern Finland University of Applied Sciences and the Mikkeli Development Miksei Ltd Oy.

A2

Sustainable Mitigation of Urban Stormwater Runoff – the Applicability of Green Infrastructure Approach in Finnish Climate.

Rima Almalla

University of Turku

The purpose of the research is to evaluate the applicability of urban green infrastructure approach in Finnish climate. GI provides a wide variety ecosystem services, such as stormwater runoff management, regulation of extreme air temperatures, reduction of energy consumption, plus a variety of social benefits and human health and wellbeing.

A3

Impact of different urban planning choices on the spatial variability of carbon dioxide exchange in Helsinki

Minttu Havu & Co

Institute for Atmospheric and Earth System Research / Physics, Faculty of Science, University of Helsinki, Finland

In this study, the net carbon dioxide exchange is included to an urban land surface model. The carbon dioxide model compares well with measurements. In the next step, the model will be used to examine the impact of vegetation cover changes on the spatial variability of carbon dioxide exchange in Helsinki.

A4

Modelling winter conditions of streets and pavements in a changing climate

Olli Saranko & Co

Finnish Meteorological Institute

Effects of climate change on winter time urban condition are studied by modeling present and future climates. Weather prediction model HARMONIE-AROME and urban canopy model SURFEX/TEB are used to generate hourly weather data for representative year from 1980-2009, and future climate is projected from that year based on IPCC RCPs.

A5

Charged or not? Housing cooperatives in emergence of electric vehicles ecosystem

Suvi Konsti-Laakso & Co

Lappeenranta University of Technology

This study will discuss the role of private housing cooperatives (phc) as the electric vehicles will become common. PHCs play an important role in the diffusion of electric vehicles as they enable charging infrastructure. The study discuss results from empirical survey conducted in Lahti region, Finland.

A6

Let's go into the forest - Päijät-Häme nature offers regional well-being

Niina Ihalainen & Co

Lahti University of Applied Sciences

The global well-being and nature tourism trend provides an excellent opportunity for growth and well-being in Päijät-Häme. The Let's go into the forest project has served to raise the profile of the region's magnificent nature and hiking sites, thus promoting nature and well-being tourism within Finland and abroad.

Theme B: Design, Technology and Digitalization

B1

Future Energy and Mobility in Less Economically Developed Regions

William Nuttall
The Open University

Presentation of edited book currently in development concerning the future of energy and mobility in a range of global contexts.

B2

Participatory action research for the development of e-inclusive smart cities

Willemien Laenens & Co
imec-SMIT Vrije Universiteit Brussel

This poster presentation describes the participatory and action-oriented research approach that will be used to develop an e-inclusive smart city masterplan for Brussels (Belgium). It presents the steps and participatory methods needed to involve all stakeholders from the quadruple helix to set priorities, define challenges and formulate solutions.

B3

Capacity Development Design for the Wastewater Treatment Plants (WWTPs) of the Baltic Sea Region

Sami Luste
Lahti University of Applied Sciences

The study will explain what factors are effecting to design of the capacity development facilities and what challenges and possibilities digitalization development creates for the future maintenance of the wastewater treatment plants.

B4

Advance technology solutions in smart cities and regions

Jenni Toivanen
Savonia University of Applied Sciences

The fast development of technology poses challenges to cities. Region influence is considerable in the decision making of advanced solutions in cities, industry and education. This study shows that multiple technology solutions are one of the top of innovations in regions and the study presents three examples of advanced solutions.

B5**Automobile Smart Mobility Region**

Rebecca Heckmann & Co

Hochschule für Technik Stuttgart

The paper deals with the implementation of smart mobility in a regional context. It examines short, medium and long term perspectives for different mobility solutions. In addition, social and ecological trends and their influence on mobility behavior are considered.

B6**The challenges and benefits of the digitalized coaching in learning processes in the on-going DigiNurse Project – A Poster Presentation**

Pirjo Vesa & Co

Karelia University of Applied Sciences

The challenges and benefits of the digitalized coaching in learning processes in the on-going DigiNurse Project – A Poster Presentation

The digital methods of changing the lifestyle with coaching have emerged as a very integral part of the chronic ill patient's behavioral counseling. The Poster Presentation will point out the challenges and the

Theme C: Circular Economy and Entrepreneurship

C1 PROMOTING ENERGY EFFICIENCY VIA RENEWABLE ENERGY UTILIZATION FOR SMALL AND MEDIUM-SIZED ENTERPRISES IN SOUTH SAVO REGION FINLAND

Riikka Tanskanen
South-Eastern Finland University of Applied Sciences

South-Eastern Finland University of Applied Sciences aims at promoting energy efficiency and the use of renewable energy sources in local SMEs

C2 CO-COMBUSTION OF HORSE MANURE AND MILLED PEAT FOR ENERGY PRODUCTION

Hanne Soininen & Co (Esittäjä: Riikka Tanskanen)
South-Eastern Finland University of Applied Sciences

South-Eastern Finland University of Applied Sciences studied horse manure and milled peat co-combustion at a local energy production facility

C3 AN ENVIRONMENTAL ARCHIVE FOR THE PROMOTION OF ENVIRONMENTAL SAFETY AND LOW CARBON PRACTICES

Hanne Soininen & Co
South-Eastern Finland University of Applied Sciences

Environmental Archive developed in South-Eastern Finland University of Applied Sciences assists in the study and development for information management and traceability of materials. The archive makes it possible to more efficiently utilise valuable materials for replacing new raw materials.

C4 BIOGAS PRODUCTION FOR TRANSPORT FUEL IN LUGA DISTRICT, RUSSIA AND FINLAND

Tuija Ranta-Korhonen & Co
Kaakkois-Suomen Ammattikorkeakoulu

South-East Finland-Russia CBC 2014-2020 -funded project “LugaBalt II” studies and compares biogas production and use of biogas as transport fuel both in Finland and in Russia and tries to find solutions to use biomass and reduce nutrient emissions from agriculture in Finland and Russia.

C5**Municipal solid waste landfill as a potential source of secondary raw materials: Case Metsäsairila, Mikkeli**

Heikki Särkkä & Co (Esittäjä: Tuija Ranta-Korhonen)
South-Eastern Finland University of Applied Sciences

Secondary raw materials were characterized and economical, environmental and social impacts were identified in Metsäsairila municipal solid waste (MSW) landfill as part of the Smart Ground project to foster resource recovery in landfills and improving the availability and accessibility of data by developing single EU platform.

C6**Challenges and opportunities in the development of Namibian energy sector**

Minna Keinänen-Toivola & Co
Satakunta University of Applied Sciences

Secured access to electricity is a great challenge in many developing regions worldwide. In NAMURBAN project, different perspectives from economics, engineering and social sciences the project was able to provide a multifaceted understanding of required energy solutions in the local context of Namibia.

C7**Case study on the environmental impacts and use of secondary materials in infra construction**

Malin zu Castell-Rüdenhausen & Co
VTT Oy

When moving towards smarter city planning, a need for infrastructure planners to estimate environmental impacts and to compare different project solutions and material options already at planning stage arises. The use of secondary raw materials promotes circular urban economy and reduces environmental impacts of infra construction.

Carpenter's Hall, 2.nd floor

