

5th IWHA Conference. Tampere Finland 2007. Past and Futures of Water. University of Tampere 13-17 June 2007

Accelerated deactivation studies of the natural-gas oxidation catalyst-Verifying the role of sulfur and elevated temperature in catalyst aging

Acceptability of contaminated soils and waste materials in landfill structures

Access to Water? Dynamic Capacity Change for Sustainable Rural Water and Sanitation Services for All

Accidents and close call situations connected to the use of mobile phones

Acetotrophic Activity Facilitates Methanogenesis from LCFA at Low Temperatures
Screening from Mesophilic Inocula

Acid Leaching of Cu and Zn from a Smelter Slag with a Bacterial Consortium

A comparison of occupational electric field exposures during working tasks at 400 kV and 110 kV substations

A comparison of the usability of a laptop, communicator, and handheld computer

Adaptation of Black Carbon Footprint concept would accelerate mitigation of global warming

A decade of Finnish engineering education for sustainable development

Adjoint-based optimization in the development of low-emission industrial boilers

Adjustable hydrophilicity and hydrophobicity on paperboard by liquid flame spray process

Adjustable wettability of paperboard by liquid flame spray nanoparticle deposition

ADM1 Based Mathematical Models For Assessing The Effect Of Trace Elements Dynamics On Solid Waste Anaerobic Digestion

Airtightness of residential buildings in Finland

A laboratory listening experiment on subjective and objective rating of impact sound insulation of concrete floors

Älypölkky, radan monitorointi, kreosoottipölkyn korvaavat vaihtoehdot

A method for design of sound insulation of glazed balconies against traffic noise

A method for finding suitable particle sizes for thermal conversion processes by using a simulation tool focusing on wood particle heat transfer and chemical kinetics

Anaerobic digestion of autoclaved and untreated food waste

A national collaboration process: Finnish engineering education for the benefit of people and environment

An example of exposure to magnetic fields in the home

An experimental study and numerical modeling of combusting two coal chars in a drop-tube reactor: A comparison between N₂/O₂, CO₂/O₂, and N₂/CO₂/O₂ atmospheres

Anxiety vs reality – Sufficiency of battery electric vehicle range in Switzerland and Finland

Application oriented wear testing of wear resistant steels in mining industry

Appropriate pricing policy needed worldwide for improving water services infrastructure

A recombinant Escherichia coli sensor strain for the detection of tetracyclines

Are Finns walking the talk?

Examining the national collaboration process on engineering education for sustainable development five years later

Are there environmental or agricultural benefits in using forest residue biochar in boreal agricultural clay soil?

Arsenic in bedrock, soil and groundwater - The first arsenic guidelines for aggregate production established in Finland

Asiakkaat, verkostot ja henkilöstö

ASROCKS-Hankkeen heikkouuttomenetelmien vertailu

Translated title of the contribution: : ASROCKS-Hankkeen heikkouuttomenetelmien vertailu

Assessment of metabolic flux distribution in the thermophilic hydrogen producer Caloramator celer as affected by external pH and hydrogen partial pressure

Assessment of the Analytical Potential of HPLC-SEC for the Characterization of DOM and Nutrients in Various Types of Water

Asset Life Cycle Management in Finnish Water Utilities

Asteittain kohti keskitettyä jätevedenpuhdistusta

Translated title of the contribution: : Asteittain kohti keskitettyä jätevedenpuhdistusta

A study of a condensing heat exchanger and electrostatic precipitator combination for small-scale wood combustion

A study on raw, torrefied, and steam-exploded wood: Fine grinding, drop-tube reactor combustion tests in N₂/O₂ and CO₂/O₂ atmospheres, particle geometry analysis, and numerical kinetics modeling

Atmospheric plasma enhanced hybrid barrier films through reel-to-reel process

Autolaskurin käyttöopas ja laskennan perusteet

Bacterial community transcription patterns during a marine phytoplankton bloom

Bacterial diversity and active biomass in full-scale granular activated carbon filters operated at low water temperatures

Ballast bed

Betonielementtien uudelleenkäyttömahdollisuudet

Translated title of the contribution: : Betonielementtien uudelleenkäyttömahdollisuudet

Betonirakenteiden korjausohjeet 2016, by 41

Bilateral collaboration in municipal water and wastewater services in Finland

Biochars from solid digestates as sorbing materials for metal(loid)s removal from water

Bioenergy consumption and biogas potential in Cambodian households

Biofiltration of odours in dry toilet air

Biogenic hydrogen and methane production from *Chlorella vulgaris* and *Dunaliella tertiolecta* biomass

Biogenic hydrogen and methane production from reed canary grass

Biological methane oxidation in landfill cover soil - constrained by concurrent decomposition processes and sulphide oxidation?

Biological Nitrogen Removal from Acidic, Heavy-metal Containing Waters

Bioprocessing of enhanced cellulase production from a mutant of *Trichoderma asperellum* RCK2011 and its application in hydrolysis of cellulose

Biovalorisation of liquid and gaseous effluents of oil refinery and petrochemical industry

Birth and expansion of public water supply and sanitation in Finland until World War II

Book Review: Graham, S. (Ed.), *Disrupted Cities: When Infrastructure Fails*

Book review : Oestigaard, T. 2013. *Water, Christianity and the rise of capitalism*. London, New York: I.B. Tauris. ISBN 978-1-78076-066-7, 209 pages

Book Review: *Time for Customer Orientation in Water Utilities Customer experience management for water utilities. Marketing urban water supply*

Calculation of Induced Electric Fields in Human Models Exposed to ELF Magnetic and Electric Fields

Carbazole-based small molecule electron donors
Syntheses, characterization, and material properties

Cardiac Pacemakers in Electric and Magnetic Fields of 400-kV Power Lines

Translated title of the contribution: : Cardiac Pacemakers in Electric and Magnetic Fields of 400-kV Power Lines

Career paths of experts on water supply and sanitation services

Catalytic effect of Ca and K on CO₂ gasification of spruce wood char

CFD Based Modelling for Predicting Fouling and Corrosion in Kraft Recovery Boilers

CFD-modeling of fume formation in kraft recovery boilers

CFD-Modeling of Fume Formation in Kraft Recovery Boilers

Challenges to Finnish water and wastewater services in the next 20-30 years

Changing energy production structures and CO₂ emissions in the ASEAN countries: Decomposition analysis of drivers behind the changes

Characteristics and agronomic usability of digestates from laboratory digesters treating food waste and autoclaved food waste

Characterization and biological stabilization of fine fraction from landfill mining

Characterization of fine fraction from landfill mining for evaluating methane potential

Characterization of fine fraction mined from two Finnish landfills

Chasing measurements for real-world emissions of city buses

CO₂ reduction costs and benefits in transport: socio-technical scenarios

Coal char combustion in O₂/N₂ and O₂/CO₂ conditions in a drop tube reactor: an optical study

Combining mineral fractions of recovered MSWI bottom ash: improvement for utilization in civil engineering structures

Commercialising reclaimed materials in earthworks – guidelines for productization and the process of appending these materials in the Finnish national code of practice

Comparative analysis and discussion

Comparing the energy required for fine grinding torrefied and fast heat treated pine

Comparison between the Occupational ELF magnetic field exposure in Finland and in Italy

Comparison of air pressure difference, air change rates, and CO₂ concentrations in apartment buildings before and after energy retrofits

Comparison of community managed projects and conventional approaches in rural water supply of Ethiopia

Comparison of the total mercury content in sediment samples with a mercury sensor bacteria test and *Vibrio fischeri* toxicity test

Comparison the portable service platforms influence to electric field exposure at 110 kV substations

Conclusions

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Conclusions: Does History Matter? Present Water Governance Challenges and Future Implications

Continuous removal and recovery of tellurium in an upflow anaerobic granular sludge bed reactor

Conversion of Solid Waste into Functional Carbon Materials: A Review

Co-operation between technical education of university and electro-technical standardization association

Co-production of 1,3 propanediol and long-chain alkyl esters from crude glycerol

Cracking of the End Diaphragm of a Post-tensioned Beam Bridge

Dags att syna utmaningarna inom vattenförsörjningen

Translated title of the contribution: : Dags att syna utmaningarna inom vattenförsörjningen

Denitrifying microbial communities along a boreal stream with varying land-use

Design aspects of all atomic layer deposited TiO₂-Fe₂O₃ scaffold-absorber photoanodes for water splitting

Detecting bioavailable toxic metals and metalloids from natural water samples using luminescent sensor bacteria

Deterioration mechanisms and life cycle of concrete monoblock railway sleepers in Finnish conditions

Developing and testing characterization methods for droplet combustion - Part I

Developing and testing characterization methods for droplet combustion - part II

Developing community water services and cooperation in Finland and the South

Development of an assessment protocol: the impact of energy retrofits on indoor environmental quality and public health in the existing building stock

Development of superhydrophobic coating on paperboard surface using the Liquid Flame Spray

Digestate valorization for bioremediation of petroleum hydrocarbons contaminated soils

Diversity of microcystin-producing cyanobacteria in spatially isolated regions of Lake Erie

Diversity of the water supply and sanitation sector: roles of municipalities in Europe

Dry Toilet Sanitation as an Alternative Solution to the Rural Ethiopia

Dynamics of microbial communities in untreated and autoclaved food waste anaerobic digesters

Ecological Sanitation - A Logical Choice? The Development of the Sanitation Institution in a World Society

Economic analysis of hydrogen production by methane thermal decomposition
Comparison to competing technologies

Editorial

Editorial. Central role of water in society and community

Editorial Note: "Pasts and Futures of Water"

Editorial to "The best papers from the 32nd International Symposium on Automation and Robotics in Construction and Mining (ISARC 2015)"

Education, Research and Capacity Building for Water Services

Effect of geometrical parameters on vortex-induced vibration of a splitter plate

Effect of heavy metal co-contaminants on selenite bioreduction by anaerobic granular sludge

Effect of HRT on nitrogen recovery from real reject water in a 3-chamber bioelectroconcentration cell

Effect of N/S ratio on anoxic sulfide oxidizing bioreactors

Effect of particle size and dispersion status on cytotoxicity and genotoxicity of zinc oxide in human bronchial epithelial cells

Effect of Temperature on Fume Formation and Deposition in Kraft Recovery Boilers - a Modeling Approach

Effect of Tissue Conductivity on Internal Body Resistances of Numerical Human Model at Power Frequency

Effects of tissue conductivity and electrode area on internal electric fields in a numerical human model for ELF contact current exposures

Electricity generation from tetrathionate in microbial fuel cells by acidophiles

Electricity production by a microbial fuel cell fueled by brewery wastewater and the factors in its membrane deterioration

Elimination of arsenic-containing emissions from gasification of chromated copper arsenate wood

Enabling and Integrative Infrastructure Policy: The Role of Inverse Infrastructures in Local Infrastructure Provision with Special Reference to Finnish Water Cooperatives

Energistä utopiaa?

Engineering and kinetic aspects of bacterial uranium reduction for the remediation of uranium contaminated environments

Enhancement in Lifespan of Halide Perovskite Solar Cells

Ensimmäiset fuusiosuunnitelmat

Environmental history of water: Global view of community water supply and sanitation

Environmental history of water : global views on community water supply and sanitation

Environmental impact of micropollutants present in urine

Epilogue

Epilogue: Local Solutions Based on Local Conditions

Erosion testing of filled and/or reinforced vinyl ester composites in water medium at elevated temperature

E-sail test payload of the ESTCube-1 nanosatellite

Espoo päättää siirtyä kärkipaikalle

Evaluation of methods for enhancing methane oxidation via increased soil air capacity and nutrient content in simulated landfill soil cover

Evolution of Community-Managed Water Supply Projects From 1994 to the 2010s in Ethiopia

Examples of occupational ELF electric and magnetic field exposure in Finland

Examples of using the moodle virtual learning environment for teaching technical university students

Examples to Reduce the EMF Generated by HV Power Transmission Lines of Different Design

Expanding rural water supplies in historical perspective: Six cases from Finland and South Africa

Experiences of integrating MSc student research projects in the "electromagnetic fields and health" area

Experimental study of oxy-fuel combustion in a drop tube reactor

Exposure to electric and magnetic fields at 110 kV substation while performing the task 'Changing a bulb from a man hoist' in the Tampere region

Exposure to Extremely Low Frequency Magnetic Fields: a Personal Monitoring Study in a Large Group of Workers

Exposure to indoor air pollution across socio-economic groups in high-income countries: A scoping review of the literature and a modelling methodology

Factors affecting the elimination capacity of a passive methane biofilter

Fast pyrolysis of coal, peat, and torrefied wood: Mass loss study with a drop-tube reactor, particle geometry analysis, and kinetics modeling

Fate of dissolved organic matter in softwood element-chlorine-free bleached kraft mill fiberline

Fate of trace elements during and after anaerobic digestion: a sequential extraction method and DGT technique to assess bio-accessible trace elements in digestate

Feasibility of Flexible Biomass Utilization in Energy Systems

Fermentative metabolism of an anaerobic, thermophilic consortium on plant polymers and commercial paper samples

$\text{Fe}_2\text{O}_3\text{-TiO}_2$ Nano-heterostructure Photoanodes for Highly Efficient Solar Water Oxidation

Finland's Water Services: Looking to its Past to Figure Out its Future.

Finnish engineering education for the benefit of people and environment

Finnish water services
Experiences in global perspective

Finnish water services
Experiences in global perspective

Fire, Thirst, Health and Hygiene
Root Causes for the Introduction of Water Supply and Sanitation in Kajaani

Flotaatiokennon injektorin diffuusori

Fluidized bed bioreactor for multiple environmental engineering solutions

Fluidized-bed denitrification of mining water tolerates high nickel concentrations

Focus and Change of Water Management in Finland – Analysis of Vesitalous Journal, 1960-2009

Foreword Towards More Resilient Water Services

Forgotten infrastructure - In the quest for development, sustainability and security

FSES 2013, Finnish Conference of Environmental Sciences, 2-3 May 2013, Tampere, Finland. Proceedings

Full scale landfill bottom liner test structures at Ämmässuo landfill, Espoo, Finland

Fungal treatment of landfill mining fine fraction to increase its stability and end-use potential

Gender comparison - The university students' exam results in the environmental and energy area

Genesis of Water supply and sanitation services in Finland

Translated title of the contribution: : Vesihuoltopalveluiden synty Suomessa: Editorial

Geometry of plate fins for maximizing heat transfer

Geo + Ympäristö = Ympäristögeotekniikka?

Translated title of the contribution: : Geo + Environment = Environmental Geotechnics?

Gestao e organizacao dos servicos de saneamento : Abordagens europeias.

Translated title of the contribution: : Gestao e organizacao dos servicos de saneamento : Abordagens europeias.

Glazed spaces

A simplified calculation method for the evaluation of energy savings and interior temperatures

Global challenges and role of institutions in water services

Governance in water sector - comparing development in Kenya, Nepal, South Africa and Finland

Groundwater as a source of conflict and cooperation

Towards creating mutual gains in a Finnish water supply project

Halogen-Bond-Assisted Photoluminescence Modulation in Carbazole-Based Emitter

Halpaa eli hyvää - minkälaisia merkityksiä vesihuoltoala rakentaa itsestään

Translated title of the contribution: : Halpaa eli hyvää - minkälaisia merkityksiä vesihuoltoala rakentaa itsestään

Hanaa!

Suomen vesihuolto - kehitys ja yhteiskunnallinen merkitys

Translated title of the contribution: : Hanaa! : Suomen vesihuolto - kehitys ja yhteiskunnallinen merkitys

Hätä ei häviä käymälöitä poistamalla

Heap Bioleaching of Low-grade Multimetal Sulphidic Ore in Boreal Conditions

Heikot signaalit vesihuollossa

Translated title of the contribution: : Heikot signaalit vesihuollossa

Helsinki sai ensimmäisen puhdistamonsa 1910; Helsinki gained its first wastewater treatment plant 1910

Translated title of the contribution: : Helsinki sai ensimmäisen puhdistamonsa 1910; Helsinki gained its first wastewater treatment plant 1910

Highly compact TiO₂ films by spray pyrolysis and application in perovskite solar cells

Highly ductile amorphous oxide at room temperature and high strain rate

High rate anaerobic treatment of LCFA-containing wastewater at low temperature

High rate autotrophic denitrification in fluidized-bed biofilm reactors

High-solids anaerobic digestion requires a trade-off between total solids, inoculum-to-substrate ratio and ammonia inhibition

Historian hajuista tuoksujen tulevaisuuteen

pääkaupunkiseudun jätevedenpuhdistuksen keskeiset päätökset Espoon näkökulmasta

Translated title of the contribution: : From Stinky History to Fragrant Future: Waste water treatment of the metropolitan area - central decisions on the point of view of Espoo

Historian hajuista tuoksujen tulevaisuuteen

Pääkaupunkiseudun jätevedenpuhdistuksen keskeiset päätökset Espoon näkökulmasta

Historical development of water and sanitation services

Historical development paths and means for winning the challenge of aging water services infrastructure

History of water and sanitation services in Finland in the urban-rural mixture : The Case of the City of Tampere, Finland

HPLC-SEC

a new approach to characterise complex wastewater effluents

Hybrid barrier films by atmospheric inline plasma deposition on sol-gel coated PE-cardboard

Hydrodynamic drag and velocity of micro-bubbles in dilute paper machine suspensions

Hydrogen sulfide removal from synthetic biogas using anoxic biofilm reactors

Hydrolysed cellulose material as sulfate reduction electron donor to treat metal- and sulfate containing waste water

Hydrothermal carbonization of pulp mill streams

Hyvän veden ja hyvien yhteyksien kaupunki - Riihimäen Veden historia

Translated title of the contribution: : Hyvän veden ja hyvien yhteyksien kaupunki - Riihimäen Veden historia

Hyvän veden ja hyvien yhteyksien kaupunki : Riihimäen Veden historia

Translated title of the contribution: : Hyvän veden ja hyvien yhteyksien kaupunki : Riihimäen Veden historia

Hyvien yhteyksien ja hyvän veden kaupunki

Identification of Wastewater Leaching into the Wells by HPLC-SEC Using UV and Fluorescence Detection

Ikääntyvä infra - vesihuollon keskeisin haaste

Translated title of the contribution: : Ikääntyvä infra - vesihuollon keskeisin haaste

Ilmasto muuttuu, riittääkö vesi?

Impact of heavy metals on denitrification of simulated mining wastewaters

Impacts of changing operational parameters of in situ chemical oxidation (ISCO) on removal of aged PAHs from soil

Impacts of short-term temperature fluctuations on biohydrogen production and resilience of thermophilic microbial communities

Importance and challenges of sharing experiences among an international and interdisciplinary group of doctoral students

Improved bioconversion of crude glycerol to hydrogen by statistical optimization of media components

Improved water services cooperation through clarification of rules and roles

Increasing oxygen deficiency changes rare and moderately abundant bacterial communities in coastal soft sediments

Indigenous practices of water management for sustainable services

Case of Borana and Konso, Ethiopia

Influence of atmospheric plasma treatment on surface properties and inkjet printability of plastic packaging film

Influence of Diffusion Barriers on Thermal Ageing Behaviour of Solar Absorber Coatings on Copper

Influence of temperature and pretreatments on the anaerobic digestion of wastewater grown microalgae in a laboratory-scale accumulating-volume reactor

Influence of TiO₂ compact layer precursor on the performance of perovskite solar cells

Inhibitory effects of substrate and soluble end products on biohydrogen production of the alkalithermophile *Caloramator celer*

Kinetic, metabolic and transcription analyses

Innovative use of recovered municipal solid waste incineration bottom ash as a component in growing media

Insentiivit julkisen sektorin innovaatiotoiminnan edistämisen välineinä. Esimerkkinä Georgian osavaltion palvelu-uudistus

Translated title of the contribution: : Insentiivit julkisen sektorin innovaatiotoiminnan edistämisen välineinä. Esimerkkinä Georgian osavaltion palvelu-uudistus

Institutional development is the key for sustainable water services in the built environment

Integration of water and wastewater utilities

Integration of water and wastewater utilities

Introduction: Evolution and futures of water management: strategic decisions, challenges and effectiveness

Inverse infrastructures: self-organization in the water services

Ja alussa oli vesi

Jätehuollon jakautuminen osamarkkinoihin ja yritystoiminta

Translated title of the contribution: : Jätehuollon jakautuminen osamarkkinoihin ja yritystoiminta

Jätehuollon, -politiikan ja -lainsäädännön institutionaalinen kuvaus

Translated title of the contribution: : Jätehuollon, -politiikan ja -lainsäädännön institutionaalinen kuvaus

Jätehuollon tekniset vaihtoehdot

Translated title of the contribution: : Jätehuollon tekniset vaihtoehdot

Jätevedenpuhdistuksen ja viemäröinnin vaiheita Helsingissä

Johdanto: vesirikas Riihimäki

Johtoja ja joukkuehenkeä

Translated title of the contribution: : Johtoja ja joukkuehenkeä

Joukkoliikenteellä on tärkeä rooli liikenteen päästöjen vähentämisessä

Käänteiset infrastruktuurit ja integroiva infrastruktuuripolitiikka

Translated title of the contribution: : Käänteiset infrastruktuurit ja integroiva infrastruktuuripolitiikka

Käänteiset perusrakenteet : Suuntana hajautettu infrastruktuuripolitiikka?

Translated title of the contribution: : Käänteiset perusrakenteet : Suuntana hajautettu infrastruktuuripolitiikka?

Kaivoista ja käymälöistä kohti kunnallista vesihuoltoa

Kapkaupungin pysyvä vesikriisi – ratkeako vesipula, jos lisää vettä pumpataan vuotavaan verkostoon

Kasvun ja veden kausi – I vesilaitoksesta II maailmansotaan

Kinetics of biomass pyrolysis

Kirja-arviointi: Kuinka vesiensuojelu saatiin pääosin kuntoon?

Translated title of the contribution: : Book review: How modern water pollution control was achieved?: For the sake of waters. Phases of Finnish water pollution control

Kirja-arviointi:Yliopistomme vaarassa hukkuu byrokraatiaan.

Pekka Kauppi. Kahlittu yliopistomme. Miten vapaudumme byrokraatiasta ja opetuksen ylenkatsomisesta. Into Kustannus Oy. 2017.

Translated title of the contribution: : Book review: Universities to be buried under bureaucracy.

Kirjastolta uutta tiedonhankinnan opetusta tukemaan opetusta antavien yksiköiden toimintaa

Translated title of the contribution: : Kirjastolta uutta tiedonhankinnan opetusta tukemaan opetusta antavien yksiköiden toimintaa

Kohti hajautettua infrastruktuuripolitiikkaa?

Paikalliset vesiosuuskunnat perusrakenteiden tuottajina

Translated title of the contribution: : Towards integrative infrastructure policy? Local water cooperatives as infrastructure producers.

Kohti puhtaampaa Itämerta

Kohti tasapuolisempaa tutkimuksen arviointia

Pääkirjoitus

Translated title of the contribution: : Towards better balanced research assessment: Editorial

Kokeellinen tutkimus savupiipun läpivientieristeen orgaanisen aineen palamisen vaikutuksesta paloturvallisuuteen

Translated title of the contribution: : Experimental study on the effects of smouldering combustion of organic content in chimney penetration insulation on fire safety

Kokemus

Kajaanin vesihuollon ammattilaisten kokemukset ja näkemykset

Konvergenssi ja divergenssi ongelmatyyppien luonnehtijoina

Esimerkkinä vesihuoltoinfrastruktuurin ikääntyminen

Koulutus ja tutkimus kehityksen moottorina

Translated title of the contribution: : Education and research driving development

Kuka päättää vesihuollon tulevaisuudesta? (Who decides on the future of the water supply?)

Translated title of the contribution: : Kuka päättää vesihuollon tulevaisuudesta? (Who decides on the future of the water supply?)

KUPERA-kaupunkien teknisen sektorin johto kaipaa toimintakulttuuriin muutosta : Haasteista innovatiivisiin mahdollisuuksiin

Translated title of the contribution: : KUPERA-kaupunkien teknisen sektorin johto kaipaa toimintakulttuuriin muutosta : Haasteista innovatiivisiin mahdollisuuksiin

Kyläyhteisöt palvelukulutuksen alustana

Translated title of the contribution: : Kyläyhteisöt palvelukulutuksen alustana

Kylien palvelutuotantoedellytyksistä erityisesti julkisten palvelujen näkökulmasta tarkasteltuna

Translated title of the contribution: : Kylien palvelutuotantoedellytyksistä erityisesti julkisten palvelujen näkökulmasta tarkasteltuna

Laajentumisen aika

Lack of water engineers hampering development. North-South cooperation in higher education is a must

Lähde
Pohjavedenotamat

Lähteet Suomen vesihuollossa
Translated title of the contribution: : Lähteet Suomen vesihuollossa

Landowners' willingness to promote bioenergy production on wasteland – future impact on land use of cutaway peatlands

Learning for sustainable water and sanitation services

Leveraging concepts for environmentally sustainable business management in construction - a focused review

Liikenteen päästötavoitteiden saavuttaminen 2030 - politiikkatoimenpiteiden tarkastelu

Liite 6: Yleistä kaivannaisjätealueista ja patoturvallisuudesta

Long-term measurement of free time exposure to low frequency magnetic fields in Finland

Long-term performance evaluation of an anoxic sulfur oxidizing moving bed biofilm reactor under nitrate limited conditions

Long term stability of air processed inkjet infiltrated carbon-based printed perovskite solar cells under intense ultra-violet light soaking

Long-term strategic decisions in 13 countries and 29 cities

Long-term thermophilic mono-digestion of rendering wastes and co-digestion with potato pulp

Loppuluku – haasteita riittää tulevaisuuteen

Low concentration of zeolite to enhance microalgal growth and ammonium removal efficiency in a membrane photobioreactor

L'oxydation chimique pour la remediation des sols contamines par des composes recalcitrants. Cas de la chlordecone
Translated title of the contribution: : L'oxydation chimique pour la remediation des sols contamines par des composes recalcitrants. Cas de la chlordecone

Luminescent bacteria-based sensing method for methylmercury specific determination

Lyhyestä tiede kaunis?
Translated title of the contribution: : Lyhyestä tiede kaunis?

Managed aquifer recharge in community water supply: the Finnish experience and some international comparisons

Managing water and sewerage services in a cold, four-seasons climate

Managing water supply through joint regional municipal authorities in Finland: Two comparative cases

Measurers' Exposure to Extremely Low Frequency Magnetic Fields at 400 kV Substations

Measures for Energy Efficient and Low Emission Private Mobility

Mechanical properties of recovered municipal solid waste incineration bottom ash: the influence of aging and changes in moisture content

Mental symptoms and the use of new technical equipment

Merkittävimmät päästövähennystoimet ilmastonmuutoksen hillitsemiseksi

Metabolic engineering of *Acinetobacter baylyi* ADP1 for improved growth on gluconate and glucose

Metals removal and recovery in bioelectrochemical systems
A review

Metering the quality of water supply and sewage network maintenance services

Methane oxidation potential of boreal landfill cover materials: The governing factors and enhancement by nutrient manipulation

Methylophaga and Hyphomicrobium can be used as target genera in monitoring saline water methanol-utilizing denitrification

Methylophilaceae and Hyphomicrobium as target taxonomic groups in monitoring the function of methanol-fed denitrification biofilters in municipal wastewater treatment plants

Metropoli ja meri. 100 vuotta jätevedenpuhdistusta Helsingissä

Translated title of the contribution: : Metropoli ja meri. 100 vuotta jätevedenpuhdistusta Helsingissä

Microalgae grow on source separated human urine in Nordic climate
Outdoor pilot-scale cultivation

Microbial electrochemical technologies with the perspective of harnessing bioenergy
Maneuvering towards upscaling

Microstructure-property relationships of novel ultra-high strength press hardening steels

Mihin jätevedenpuhdistusta tarvitaan?

Mine wastewater treatment using *Phalaris arundinacea* plant material hydrolyzate as substrate for sulfate-reducing bioreactor

Ministry of the Environment announces a Guide on Renovation and Repair of Buildings with Moisture and Microbial Damage - From theory to practice

Missä, missä se kaivo on?

Modeling fine particles and alkali metal compound behavior in a kraft recovery boiler

Modeling of autonomous power systems - A mathematical model of a hybrid power system

Modeling of Fine Particles and Alkali Metal Compounds in Kraft Recovery Boiler Furnace

Modeling of Finnish building sector energy consumption and greenhouse gas emission specification of POLIREM policy scenario model

Modelling fume deposit growth in recovery boilers: effect of flue gas and deposit temperature

Modelling of anisotropic fatigue

Modelling of plastic culvert and road embankment interaction in 3D

Modelling of seep through of humidity to electric connector with stochastic processes

Municipal challenges in managing a building with noted health symptoms

Näkökulma-kolumni: Putkiremontit kestävät aivan liian kauan

Näkökulma: Malti on valttia Suomellekin nollaenergiatavoitteita asetettaessa

Näkymätönt Porrii. Porin veden historia

Translated title of the contribution: : Näkymätönt Porrii. Porin veden historia

Nanoscale Surface Processing of Extrusion Coated Substrates with Atmospheric Plasma Technology

Nature and extent of potable water consumption in Tampere (Finland) and Carletonville (South Africa)

Need of Services and Understanding of Service Providers in Water and Sanitation: A Case of Ethiopia

Negotiating Groundwater Governance
Lessons from Contentious Aquifer Recharge Projects

Negotiating water governance: towards cooperation in contentious groundwater recharge projects

Nitrogen recovery from reject water in a 3-chamber bioelectroconcentration cell

Numerical modeling of fine particle and deposit formation in a recovery boiler

Nutrient and organic matter removal from wastewaters with microalgae

Occupational exposure to electric and magnetic fields during work tasks at 110 kV substations in the Tampere region

Occupational Exposure to Electric and Magnetic Fields While Working at Switching and Transforming Stations of 110 kV

Occupational Exposure to Electric Fields and Currents Associated With 110 kv Substation Tasks

Occupational exposure to electric fields and induced currents associated with 400 kV substation tasks from different service platforms

Occupational Exposure to Extremely Low Frequency Electric Fields in Office Work

Opening of the seminar

Operationalising the right to water and sanitation and gender equality via appropriate technology in rural Nepal

Osuuskunnat mukaan infrastruktuuripolitiikkaan

Translated title of the contribution: : Osuuskunnat mukaan infrastruktuuripolitiikkaan

Pääkaupunkiseudun moderni jätevedenpuhdistus ja Viikinmäen puhdistamo

Pääkirjoitus. Veden keskeinen merkitys yhteiskunnassa ja yhdyskunnissa

Translated title of the contribution: : Pääkirjoitus. Veden keskeinen merkitys yhteiskunnassa ja yhdyskunnissa

Pääkirjoitus : Vesihuoltolaitosten historiat imagon nostajana / Editorial : Relevance of history for current water services management and governance

Translated title of the contribution: : Pääkirjoitus : Vesihuoltolaitosten historiat imagon nostajana / Editorial : Relevance of history for current water services management and governance

Päätelmät yhdyskuntajätehuollon markkinainnovaatioista - taustat, kiistat ja sovellukset

Translated title of the contribution: : Päätelmät yhdyskuntajätehuollon markkinainnovaatioista - taustat, kiistat ja sovellukset

Päijänne-tunneli ja kolmisopimus

Palo, jano, terveyst, hygienia

Paperinjalostus- ja pakkaustekniikan tutkimusyksikkö uudistaa kurssitarjontaa

Translated title of the contribution: : Paperinjalostus- ja pakkaustekniikan tutkimusyksikkö uudistaa kurssitarjontaa

Paradigma alternativo : O papel das cooperativas e das autoridades locais

Translated title of the contribution: : Paradigma alternativo : O papel das cooperativas e das autoridades locais

Paradigman jäljillä

Tutkimus vesihuollon ajattelumalleista

Parameters Affecting the Upcycling of Waste Cotton and PES/CO Textiles

Particle growth with photochemical age from new particle formation to haze in the winter of Beijing, China

Particulate Mass and Nonvolatile Particle Number Emissions from Marine Engines Using Low-Sulfur Fuels, Natural Gas, or Scrubbers

Part I: Early systems and innovations. Ch 3 Introduction: Early cultures and water

Part III: Modern Urban Infrastructure. Ch 20 Introduction

Part III: Modern Urban Infrastructure. Ch 20 Introduction

Part III: Modern urban infrastructure. Introduction

Part II: Period of Slow Development. Ch 8. Introduction: pp. 99-102. Conclusions

Part V: Comparative Analysis of the Omnipresent Water Fountains

Perfusion characterization using flow simulations and μ PIV measurements

Physical symptoms in young adults and their use of different computers and mobile phones

Pintavedestä pohjaveteen ja tekopohjaveteen

Translated title of the contribution: : Pintavedestä pohjaveteen ja tekopohjaveteen

Planning land use for biogas energy crop production

The potential of cutaway peat production lands

Plasma-Assisted Fabrication of Fe₂O₃ - Co₃O₄ Nanomaterials as Anodes for Photoelectrochemical Water Splitting

Pohjavesi, meidän vesi

Pohjoismaiden energiapolitiikka 2030

Hiiilineutraalimpaan energijärjestelmään osin yhdessä, osin eri polkuja pitkin

"Poika, nyt lähdettiin hommiin" - vesilaitos syntyy

Pollutants source control and health effects

Possible Impact of Long and Heavy Vehicles in the United Kingdom—A Commodity Level Approach

Power generation in fed-batch and continuous up-flow microbial fuel cell from synthetic wastewater

Preferential adsorption of Cu in a multi-metal mixture onto biogenic elemental selenium nanoparticles

Privatisation of water services in historical context, Mid-1800s to 2004

Production of Electricity and Butanol from Microalgal Biomass in Microbial Fuel Cells

Production of Oleaginous Microbial Biomass by Reusing Wastewaters

Prologue

Pt-functionalized Fe₂O₃ photoanodes for solar water splitting
the role of hematite nano-organization and the platinum redox state

Puurakenteiden uudelleenkäyttömahdollisuudet
Translated title of the contribution: : Reuse possibilities of timber structures

Radon, fungal spores and MVOCs reduction in crawl space house
A case study and crawl space development by hygrothermal modelling

Rakennusten energiankulutuksen perusskenaario Suomessa 2015-2050
Translated title of the contribution: : Basic scenario of the energy consumption of building stock in Finland 2015-2050

Rating the impact sound insulation of concrete floors with single-number quantities based on a psychoacoustic experiment

Ravinnevisio
Selvitys Pirkanmaan puhdistamolietteiden ja biojätteiden ravinteista ja niiden potentiaalisesta käytöstä

Recent advances in nutrient removal and recovery in biological and bioelectrochemical systems

Recycling mine tailings in chemically bonded ceramics - A review

Recycling potential of post-consumer plastic packaging waste in Finland

Reducing CO₂ emissions from freight
Recent developments in freight transport in the Nordic countries and instruments for CO₂ reductions

Reduction of combustion-generated emissions by means of multiobjective optimization and computational fluid dynamics

Relevance of the resilience concept and long-term thinking for WSS providers

Removal of odours in dry toilets by biofiltration

Replacing centralised waste and sanitation infrastructure with local treatment and nutrient recycling
Expert opinions in the context of urban planning

Requirements for rainfall retention and storage in cold climate

Resiliency is the key for sustainable water services.

Resilient Asset Management and Governance for Deteriorating Water Services Infrastructure

Resilient Water Services and Systems: The Foundation of Well-Being

Revisiting cellulase production and redefining current strategies based on major challenges Article reference: RSER5103

Revisiting the feasibility of biomass-fueled CHP in future energy systems – Case study of the Åland Islands

Rewiring the wax ester production pathway of acinetobacter baylyi ADP1

"Rocky Fountains" of Keciören, Turkey

Translated title of the contribution: : "Rocky Fountains" of Keciören, Turkey

Rural electrification of remote areas - Case studies of two renewable energy projects in Laos and The Philippines

Rural energy survey and scenario analysis of village energy consumption: A case study in Lao People's Democratic Republic

Rural household electricity load profiles with a load simulation tool

Rural Water and Sanitation

Community Managed Project Approach for Sustainability in Ethiopia

Saasta

Jätevesien puhdistus ja viemärointi

Safety of lead water pipes: history and present

Sähköautoilla suuri vähennys päästöihin - pian myös kilpailukykyiseen hintaan

Sähköautoilun edistäminen vaatii latausmahdollisuuksien kehittämistä

Sähkö- ja elektroniikkateollisuuden ympäristökysymykset

Translated title of the contribution: : Sähkö- ja elektroniikkateollisuuden ympäristökysymykset

Sanitation, water and health

Sata vuotta Suomen suurimmasta lavantautiepidemiasta

Sata vuotta vesihuoltoa Suomessa

Translated title of the contribution: : One hundred years of water services in Finland

Scaling up the treatment of the fine fraction from landfill mining

Mass balance and cost structure

Screening biological methods for laboratory scale stabilization of fine fraction from landfill mining

Selecting an indigenous microalgal strain for lipid production in anaerobically treated piggery wastewater

Self-reported use of ICT (Information and communication technology) uptake in 2002 and discomfort amongst Finns aged 45-66

Service Failures of Rural Water Supply Systems in Ethiopia and Their Policy Implications

Short Global History of Fountains

Sidosryhmien näkemykset jätehuollon markkinoistumisesta

Translated title of the contribution: : Sidosryhmien näkemykset jätehuollon markkinoistumisesta

Significance of Wild Cards and Weak Signals for Sustainability : Case of Water Services

Simulointi nopeuttaa käyttöiän määrittämistä

Simultaneous detection of three antiviral and four antibiotic compounds in source-separated urine with liquid chromatography

Simultaneous nutrient removal and lipid production with *Chlorella vulgaris* on sterilized and non-sterilized anaerobically pretreated piggery wastewater

Sisäympäristön laadun ja terveellisuuden arviointi energiaparannuskohteissa

Sleepers

Social Norms in Water Services

Exploring the Fair Price of Water

Sorption of zinc onto elemental selenium nanoparticles immobilized in *Phanerochaete chrysosporium* pellets

Spatial variations in bacterial and archaeal abundance and community composition in boreal forest pine mycorrhizospheres

Stabilization of fine fraction from landfill mining in anaerobic and aerobic laboratory leach bed reactors

Stabilization of fine fraction from landfill mining in leach bed reactor

Struvite precipitation in raw and co-digested swine slurries for nutrients recovery in batch reactors

Students' Perceived Priorities on Water as a Human Right, Natural Resource, and Multiple Goods

Study of Aerosols of Black Liquor Combustion

Subpicosecond to Second Time-Scale Charge Carrier Kinetics in Hematite-Titania Nanocomposite Photoanodes

Suomen vesihuollon kehitys kansainvälisessä kontekstissa

Translated title of the contribution: : Development of Finnish water services in international perspective

Sustainability competencies of engineers in the field of water supply and sanitation

Sustainable nutrients recovery and recycling by optimizing the chemical addition sequence for struvite precipitation from raw swine slurries

Syntymä ja kuolema
Laitoksen perustamiseen johtanut kehitys

Syytä olla ylpeä
Translated title of the contribution: : Syytä olla ylpeä

Taking Water Services to the Next Level
A Paradigm Shift?

Tammikuun tehopiikki – mitä tapahtui 7.1.2016? Miten tehoa hallitaan paremmin jatkossa?

Tampereelta valmistuneiden vesihuoltoalan diplomi-insinöörien sijoittuminen ja odotukset yliopisto-opetukselle

Tausta: Jätevedenpuhdistuksen alku, tehtävän määrittely ja keskeiset käsitteet

Tavoitteena puhdas asuinympäristö

Technical suitability of the fine fraction of municipal solid waste incineration bottom ash to the landfill capping liner

Technology development theories and water services evolution

Tempoilevasta tiede- ja koulutuspolitiikasta kohti laajempaa näkemystä
Translated title of the contribution: : From stop-go science and education policy towards wider points of view

Teräsrumpujen uudet korjausmenetelmät
Halkaistu sisäputki, puolipohjaus ja pohjan betonointi

Testattua tahdistusta
Translated title of the contribution: : Testattua tahdistusta

Testing activity-based costing to large-scale combined heat and power plant using bioenergy

Test in scala reale su argille sensibili: l'esperienza finlandese
Translated title of the contribution: : Full-scale failure test on sensitive clays: the Finnish experience

The application of HPLC-SEC for the simultaneous characterization of NOM and nitrate in well waters

The Challenge of Aging Infrastructure, Aging Staff and Reflections for Education and Research

The designing and the implementation of WWW-course "Electricity, Electronics and Environment"

The doors of operating devices mitigation influence to the electric field exposure at 110kV substation tasks on service platforms

The effect of anode potential on bioelectrochemical and electrochemical tetrathionate degradation

The effect of climate change on freeze-thaw durability of concrete structures in Finland

The effect of lake bottom sediment layers on radionuclide transport from bedrock to biosphere and doses to humans

The Effect of Phosphorus Exposure on Diesel Oxidation Catalysts-Part I
Activity Measurements, Elementary and Surface Analyses

The Effect of Phosphorus Exposure on Diesel Oxidation Catalysts-Part II
Characterization of Structural Changes by Transmission Electron Microscopy

The effect of torrefaction on the chlorine content and heating value of eight woody biomass samples

The effects of improved energy efficiency on indoor environmental quality in multi-family buildings

The evolving role of water co-operatives in Finland

The experiences of technical university students on an "environmental health" course

The factors controlling combustion and gasification kinetics of solid fuels

The Fountain A Harbinger of a New Era in Case Tampere

The Mermaid of Helsinki, Finland

The most difficult at-fault fatal crashes to avoid with current active safety technology

The need for "champions" in rural water supply

The Possible Exposure of Children to Extremely Low Frequency Magnetic Fields in the Home

The potential of biomethane in replacing fossil fuels in heavy transport-a case study on Finland

The potential of electric trucks – An international commodity-level analysis

The role of inorganics in modelling of biomass gasification

The students' feedback on WWW-course "Electricity, Electronics and Environment"

The technical students' feedback from the course issues on environmental health

Tighter contracts or more trust? Outsourcing in Finnish water utilities

To fractionate municipal solid waste incineration bottom ash: Key for utilisation?

Toimiva vesihuolto ei ole itsestäänselvyys.

Translated title of the contribution: : Operational water services are not self evident

Towards balanced public-private co-operation in urban water management

Towards bioproduction of poly- α -olefins from lignocellulose

Towards enhanced nutrient recovery, biogas production and upgrading through AD and BES integration

Towards the EU emissions targets of 2050
optimal energy renovation measures of Finnish apartment buildings

Transient-state operation of an anoxic biotrickling filter for H₂S removal

Treatment of Composted Soils contaminated with Petroleum Hydrocarbons using Chemical Oxidation followed by Enhanced Aerobic Bioremediation

TTY:ssä panostetaan pakkausalaan
Translated title of the contribution: : TTY:ssä panostetaan pakkausalaan

Tulevaisuuden vesiosaajat
Translated title of the contribution: : Tulevaisuuden vesiosaajat

Tuli
Pelko ja pelastus

Tuotanto- ja operointi-innovaatiot - case vesihuolto
Translated title of the contribution: : Tuotanto- ja operointi-innovaatiot - case vesihuolto

Turning up the heat on printability

Turning up the heat on printability

Tutkimuksen teoreettinen viitekehys
Translated title of the contribution: : Tutkimuksen teoreettinen viitekehys

Tutkimusohjelma Elinkaaritehokas RAta (TERA)
Kokonaisvaltainen ote ratarakennetutkimukseen

Tutkimustoiminnalla turvallisuutta ja toimintavarmuutta
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Two Years after Donor Funding Ended: Success Factors for Schools to Keep their Urine-Diverting Dry Toilets (UDDTs)
Clean and Well Maintained

Työntekijöiden altistuminen sähkö- ja magneettikentille 110 kV sähköasemien työtehtävissä
Translated title of the contribution: : Työntekijöiden altistuminen sähkö- ja magneettikentille 110 kV sähköasemien työtehtävissä

Ulkoistaminen apuväline vesihuoltoverkoston kunnossapitoon?
Translated title of the contribution: : Ulkoistaminen apuväline vesihuoltoverkoston kunnossapitoon?

Understanding sustainable development in Finnish water supply and sanitation services

Unipoli Green - Four Universities Working Together for Sustainability

Unsteady computational methods to study jet behaviour in large fluidized bed boiler

Urban water conflicts in recent European history: Changing interactions between technology, environment and society

Use of analytical expressions of convection in conjugated heat transfer problems

Use of diluted urine for cultivation of *Chlorella vulgaris*

Use of factorial experimental design to study the effects of iron and sulfur on growth of *Scenedesmus acuminatus* with different nitrogen sources

Utilising alternative fuels and technologies in city buses

Utility–Customer Communication
The Case of Water Utilities

Utilizing Gelatinized Starchy Waste from Rice Noodle Factory as Substrate for L(+)-Lactic Acid Production by Amyolytic Lactic Acid Bacterium *Enterococcus faecium* K-1

Uuden vuosituhatvuoden tiennäyttäjät – HS-Veden alkutaival

UV-Blocking Synthetic Biopolymer from Biomass-Based Bifuran Diester and Ethylene Glycol

UV irradiation for Micropollutant removal from aqueous solution in the presence of H₂O₂

Vaatimus paremmasta puhdistustuloksesta ohjaa jätevedenpuhdistuksen päätöksentekoa

Vaihtoehtoisten käyttövoimien hyödyntäminen kaupunkiliikenteen linja-autoissa

Valkea kaupunki, mustat vedet

Valorization of Finnish mining tailings for use in the ceramics industry

Values and Attitudes in Engineering Education

Vanhuus uhkaa vesihuoltoa
Translated title of the contribution: : Vanhuus uhkaa vesihuoltoa

Vapor phase processing of α -Fe₂O₃ photoelectrodes for water splitting
An insight into the structure/property interplay