

Pohjoismaiden energiapolitiikka 2030
Hiilineutraalimpaan energiajärjestelmään osin yhdessä, osin eri polkuja pitkin

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

Examples of occupational ELF electric and magnetic field exposure in Finland

Technology development theories and water services evolution

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

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

Unipoli Green - Four Universities Working Together for Sustainability

Merkittävimmät päästövähennystoimet ilmastonmuutoksen hillitsemiseksi

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

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

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

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

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

Dry Toilet Sanitation as an Alternative Solution to the Rural Ethiopia

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

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

Rural Water and Sanitation
Community Managed Project Approach for Sustainability in Ethiopia

Indigenous practices of water management for sustainable services
Case of Borana and Konso, Ethiopia

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

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

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

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

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

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

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

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

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

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

Inhibitory effects of substrate and soluble end products on biohydrogen production of the alkalithermophile *Caloramator celer*
Kinetic, metabolic and transcription analyses

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

Recycling potential of post-consumer plastic packaging waste in Finland

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

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

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

E-sail test payload of the ESTCube-1 nanosatellite

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

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

Highly ductile amorphous oxide at room temperature and high strain rate

Digestate valorization for bioremediation of petroleum hydrocarbons contaminated soils

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

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

Conversion of Solid Waste into Functional Carbon Materials: A Review

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

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

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

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

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

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

Vesihuoltotoimintojen ulkoistaminen Suomessa

Translated title of the contribution: : Vesihuoltotoimintojen ulkoistaminen Suomessa

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

Water - The Most Important Subject of the World

Johtoja ja joukkuehenkeä

Translated title of the contribution: : Johtoja ja joukkuehenkeä

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

Inverse infrastructures: self-organization in the water services

Ikääntyvä infra - vesihuollon keskeisin haaste

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

Tuotanto- ja operointi-innovaatiot - case vesihuolto

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

Heikot signaalit vesihuollossa

Translated title of the contribution: : Heikot signaalit vesihuollossa

Osuuskunnat mukaan infrastruktuuripolitiikkaan

Translated title of the contribution: : Osuuskunnat mukaan infrastruktuuripolitiikkaan

Ulkoistaminen apuväline vesihuoltoverkostojen kunnossapitoon?

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

Käänteiset perusrakenteet : Suuntana hajautettu infrastruktuuripolitiikka?

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

Halpaa eli hyvää - minkälaisia merkityksiä vesihuoltoala rakentaa itsestään

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

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

Tighter contracts or more trust? Outsourcing in Finnish water utilities

Kohti hajautettua infrastruktuuripolitiikkaa?

Paikalliset vesiosuuskunnat perusrakenteiden tuottajina

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

Social Norms in Water Services

Exploring the Fair Price of Water

Vesiosuuskunnat - minä ne tulisi nähdä?

Viewpoint - Paradigm Shift of Water Services in Finland

From Production Mentality to Service Mindset

Utility–Customer Communication

The Case of Water Utilities

Konvergenssi ja divergenssi ongelmatyyppien luonnehtijoina

Esimerkkinä vesihuoltoinfrastruktuurin ikääntyminen

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

Paradigman jäljillä

Tutkimus vesihuollon ajattelumalleista

Taking Water Services to the Next Level

A Paradigm Shift?

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

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

Glazed spaces

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

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

Towards the EU emissions targets of 2050

optimal energy renovation measures of Finnish apartment buildings

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

Modelling of anisotropic fatigue

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

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

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

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

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

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

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

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

Vesihuollolla voidaan myös paikata kuntataloutta

Water, policy and governance

Appropriate pricing policy needed worldwide for improving water services infrastructure

Resilient Asset Management and Governance For deteriorating Water Services Infrastructure

Water supply and sanitation as an entry point to human development
Vision21- Knowledge synthesis.

Koulutus ja tutkimus kehityksen moottorina
Translated title of the contribution: : Education and research driving development

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

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

The Fountain A Harbinger of a New Era in Case Tampere

The Mermaid of Helsinki, Finland

Water Fountains in the Worldscape

Part V: Comparative Analysis of the Omnipresent Water Fountains

Water Fountains in the Cityscape

Requirements for rainfall retention and storage in cold climate

Improved water services cooperation through clarification of rules and roles

Vetoa vesihuoltopalveluihin täydenniskoulutuksen kautta

Translated title of the contribution: : Continuing education empowering water services development

Vesihuollon instituutiot vaativat taitavaa jalkapallopelejä

Translated title of the contribution: : Water services institutions require skilful soccer playing

Vesitalous - monipuolisesti vesialalta

Translated title of the contribution: : Vesitalous - monipuolisesti vesialalta

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

Use of diluted urine for cultivation of *Chlorella vulgaris*

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

Chasing measurements for real-world emissions of city buses

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

Vaihtoehtoisten käyttövoimien hyödyntäminen kaupunkiliikenteen linja-autoissa

Utilising alternative fuels and technologies in city buses

Editorial Note: "Pasts and Futures of Water"

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

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

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

Part III: Modern Urban Infrastructure. Ch 20 Introduction

Hätä ei häviä käymälöitä poistamalla

Water is the Beginning of All: Global Water Services and Challenges

Prologue

Conclusions

Epilogue

Conclusions

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

Hyvän veden ja hyvien yhteyksien kaupunki : Riihimäen Veden historia

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

Ilmasto muuttuu, riittääkö vesi?

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

Part III: Modern urban infrastructure. Introduction

Historical development of water and sanitation services

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

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

Näkymätönt Porrii. Porin veden historia

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

Part III: Modern Urban Infrastructure. Ch 20 Introduction

Water and sanitation services in history: Motivations, expectations and experiences

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

Epilogue: Local Solutions Based on Local Conditions

Metropoli ja meri. 100 vuotta jätevedenpuhdistusta Helsingissä

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

Hyvän veden ja hyvien yhteyksien kaupunki - Riihimäen Veden historia

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

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

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

Comparative analysis and discussion

Water, Time and European Cities : History matters for the Futures

Long-term strategic decisions in 13 countries and 29 cities

Conclusions

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

Viinikanlahden siirto vielä harkintaan

Short Global History of Fountains

Sata vuotta Suomen suurimmasta lavantautiepidemiasta

Valkea kaupunki, mustat vedet

Ja alussa oli vesi

Vesihuollon alkutaival – kehitys 1910 asti

Kasvun ja veden kausi – I vesilaitoksesta II maailmansotaan

Laajentumisen aika

Vesihuoltoa kuntiin

Uuden vuosituhannen tiennäyttäjät – HS-Veden alkutaival

Vesi on parasta kylmänä – loppusanat

Mihin jätevedenpuhdistusta tarvitaan?

Jätevedenpuhdistuksen ja viemäröinnin vaiheita Helsingissä

Pääkaupunkiseudun moderni jätevedenpuhdistus ja Viikinmäen puhdistamo

Tavoitteena puhdas asuin ympäristö

Kohti puhtaampaa Itämerä

Johdanto: vesirikas Riihimäki

Vesilinna, Riihimäen maamerkki

Vesihuollon haasteet ennen ja nyt

Hyvien yhteyksien ja hyvän veden kaupunki

Kaivoista ja käymälöistä kohti kunnallista vesihuoltoa

”Poika, nyt lähdettiin hommiin” - vesilaitos syntyy

Vesihuollon historia pähkinänkuoressa

Vesihuoltoa espoossa ennen kunnallista vesilaitosta

Päijänne-tunneli ja kolmisopimus

Ensimmäiset fuusiosuunnitelmat

Yhdistymishankkeet 2000-luvulla

Loppuluku – haasteita riittää tulevaisuuteen

Palo, jano, terveys, hygienia

Virta

Kajaani, kaupunki joen varrella

Syntymä ja kuolema

Laitoksen perustamiseen johtanut kehitys

Tuli

Pelko ja pelastus

Vesi

Vesilaitoksen alkutaival 1920-luvulta 1970-luvulle

Lähde

Pohjavedenottamot

Saasta

Jätevesien puhdistus ja viemärointi

Kokemus

Kajaanin vesihuollon ammattilaisten kokemukset ja näkemykset

Yhteistyö

Visio
Historian havinaa ja tulevaisuuden haasteita

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

Tausta: Jätevedenpuhdistuksen alku, tehtävän määrittely ja keskeiset käsitteet

Vesihuollon alku Espoossa: ensimmäiset päätökset

Yhteistyötarpeet ja synergiaedut :
miksi hoitaa kaikkien jätevedet?

Vaatus paremmasta puhdistustuloksesta ohjaa jätevedenpuhdistuksen päätöksentekoa

Espoo päättää siirtyä kärkipaikalle

Tutkimustoiminnalla turvallisuutta ja toimintavarmuutta
päätös panostaa omaan jätevesilaboratorioon

Voimaa historiallisesta yhteistyöstä

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

Yhdyskuntien vesihuolto – kehityksen ja elämän ehto
Translated title of the contribution: : Community water services - a must for development and life

Sata vuotta vesihuoltoa Suomessa
Translated title of the contribution: : One hundred years of water services in Finland

Ympäristö- ja vesihistorian tutkimuksesta 2000-luvulla Suomessa

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

Resiliency is the key for sustainable water services.

Vesihuoltopalvelujen tutkimus-, kehittämis- ja innovaatioklusterin (VEPATUKI) ensimmäinen vuosi keskittyy saneeraustarpeeseen

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

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

Water Cooperatives in Tampere, Finland: the case of Pispala

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

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

Teräsrumpujen uudet korjausmenetelmät
Halkaistu sisäputki, puolipohjaus ja pohjan betonointi

Yhdyskuntajätehuollon markkinainnovaatiot tutkimuskaupungeissa
Translated title of the contribution: : Yhdyskuntajätehuollon markkinainnovaatiot tutkimuskaupungeissa

Sidosryhmien näkemykset jätehuollon markkinoistumisesta
Translated title of the contribution: : Sidosryhmien näkemykset jätehuollon markkinoistumisesta

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

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

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

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

Geometry of plate fins for maximizing heat transfer

Use of analytical expressions of convection in conjugated heat transfer problems

Vieraskynä : Vesialan osaamista kehitettävä yhteiskunnan tarpeista
Translated title of the contribution: : Vieraskynä : Vesialan osaamista kehitettävä yhteiskunnan tarpeista

Missä, missä se kaivo on?

Yhteistä vettä
Tuusulan seudun vesilaitos kuntayhtymä 1967-2007

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

Integration of water and wastewater utilities

Developing community water services and cooperation in Finland and the South

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

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

Vesihuollossa kuntayhteistyö toimii

Translated title of the contribution: : Vesihuollossa kuntayhteistyö toimii

Pintavedestä pohjaveteen ja tekopohjaveteen

Translated title of the contribution: : Pintavedestä pohjaveteen ja tekopohjaveteen

Water education makes a global difference

Vesihuollossa muhii aikapommi

Translated title of the contribution: : Vesihuollossa muhii aikapommi

Lyhyestä tiede kaunis?

Translated title of the contribution: : Lyhyestä tiede kaunis?

Water and the city

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

Vesihuollon kehitys ja yhteiskunnallinen merkitys : Hapertuvatko hanat?

Translated title of the contribution: : Vesihuollon kehitys ja yhteiskunnallinen merkitys : Hapertuvatko hanat?

Integration of water and wastewater utilities

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

Vanhuus uhkaa vesihuoltoa

Translated title of the contribution: : Vanhuus uhkaa vesihuoltoa

Pääkirjoitus. Veden keskeinen merkitys yhteiskunnassa ja yhdyskunnissa

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

Water services and cooperation

Editorial. Central role of water in society and community

Asteittain kohti keskitettyä jätevedenpuhdistusta

Translated title of the contribution: : Asteittain kohti keskitettyä jätevedenpuhdistusta

Dags att syna utmaningarna inom vattenförsörjningen

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

Vesihuolto osana näkymätöntä kaupunkia

Translated title of the contribution: : Vesihuolto osana näkymätöntä kaupunkia

Vesihuollon historian lyhyt oppimäärä

Translated title of the contribution: : Vesihuollon historian lyhyt oppimäärä

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

Yhdysvaltain vesihuollossa julkissektori avainasemassa. Haasteina niukentuvien vesivarojen hallinta ja ikääntyvä infrastruktuuri

Translated title of the contribution: : Yhdysvaltain vesihuollossa julkissektori avainasemassa. Haasteina niukentuvien vesivarojen hallinta ja ikääntyvä infrastruktuuri

"Rocky Fountains" of Keciören, Turkey

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

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

Vesihuollon strateginen kehittäminen haltuun

Ydin- ja tukitoiminnon tarpeen hahmottaa selkeästi

Translated title of the contribution: : Water services to be developed strategically: Recognizing the core and non-core activities of water services

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

Finnish water services

Experiences in global perspective

Water services heritage and institutional diversity

Kohti tasapuolisempaa tutkimuksen arviointia

Pääkirjoitus

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

Opening of the seminar

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

Education, Research and Capacity Building for Water Services

The need for "champions" in rural water supply

Toimiva vesihuolto ei ole itsestäänselvyys.

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

Vesihuollon koulutus on erinomaista kehitysyhteistyötä

Keskustelua.

Translated title of the contribution: : Water Services Education presents excellent development cooperation: Discussion forum.

Vesihuollon globaalit haasteet ja instituutioiden roolit

Translated title of the contribution: : Global challenges and role of institutions in water services

Global challenges and role of institutions in water services

Historian hajusta tuoksujen tulevaisuuteen
Pääkaupunkiseudun jätevedenpuhdistuksen keskeiset päätökset Espoon näkökulmasta

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

Tempoilevasta tiede- ja koulutuspolitiikasta kohti laajempaa näkemystä

Translated title of the contribution: : From stop-go science and education policy towards wider points of view

Vesihuollon ammattilaiset ovat verkostoituneet kautta aikojen

Translated title of the contribution: : Water services professionals have networked throughout history

Vesihuolto kaupungistuvissa yhteiskunnissa

Translated title of the contribution: : Water Services in Urbanising Societies

Finnish water services

Experiences in global perspective

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

Water Services Development and Governance in Finland. Feature Article. JAWWA. 110, 5: 50-55.

Suomen vesihuollon kehitys kansainvälisessä kontekstissa

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

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.

WC-tilat ja -opasteet vain likana silmissämme?

Translated title of the contribution: : WC and signs only as dirt in our eyes?

Vesihuollon koulutus ja tutkimus lähemmäksi rakennettua ympäristöä

Translated title of the contribution: : Water services education and research closer to the built environment

Foreword Towards More Resilient Water Services

Vesihuolto yhdyskuntien ympäristön turvaajana: uskomuksia ja todellisuuksia

Translated title of the contribution: : Water services safequaring our environment: beliefs and realities

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

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

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

Pollutants source control and health effects

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

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

Effect of N/S ratio on anoxic sulfide oxidizing bioreactors

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

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

Hydrogen sulfide removal from synthetic biogas using anoxic biofilm reactors

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

Recycling mine tailings in chemically bonded ceramics - A review

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

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

Kinetics of biomass pyrolysis

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

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

Betonirakenteiden korjausohjeet 2016, by 41

Modelling of plastic culvert and road embankment interaction in 3D

The role of inorganics in modelling of biomass gasification

Values and Attitudes in Engineering Education

A recombinant Escherichia coli sensor strain for the detection of tetracyclines

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

Testattua tahdistusta

Translated title of the contribution: : Testattua tahdistusta

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

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

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

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

Sähkö- ja elektroniikkateollisuuden ympäristökysymykset

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

Mental symptoms and the use of new technical equipment

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

Työntekijöiden altistuminen sähkö- ja magneettikentille 110 kV sähköasemien työtehtävissä

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

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

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

Working-aged population's mental symptoms and the use of the Internet

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

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

White-Collar Workers' Self-Reported Physical Symptoms Associated With Using Computers

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

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

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

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

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

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

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

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

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

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

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

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

Perfusion characterization using flow simulations and μ PIV measurements

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

Bilateral collaboration in municipal water and wastewater services in Finland

Vesihuollon ylikunnalliset sopimukset lisääntymässä

Translated title of the contribution: : Vesihuollon ylikunnalliset sopimukset lisääntymässä

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

Groundwater as a source of conflict and cooperation

Towards creating mutual gains in a Finnish water supply project

Negotiating Groundwater Governance

Lessons from Contentious Aquifer Recharge Projects

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

Negotiating water governance: towards cooperation in contentious groundwater recharge projects

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

TTY:ssä panostetaan pakkausalaan

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

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

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

Planning land use for biogas energy crop production

The potential of cutaway peat production lands

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

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

Betonielementtien uudelleenkäyttömahdollisuudet

Translated title of the contribution: : Betonielementtien uudelleenkäyttömahdollisuudet

Turning up the heat on printability

Turning up the heat on printability

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

Paperinjalostus- ja pakkaustekniikan tutkimusyksikkö uudistaa kurssitarjontaa

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

Nanoscale Surface Processing of Extrusion Coated Substrates with Atmospheric Plasma Technology

Water Supply and Sanitation in a Green Economy Society

The Case of Finland

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

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

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

Biogenic hydrogen and methane production from reed canary grass

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

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

Editorial

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

Kyläyhteisöt palvelukulutuksen alustana

Translated title of the contribution: : Kyläyhteisöt palvelukulutuksen alustana

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

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

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

Kirjastolta uutta tiedonhankinnan opetusta tukemaan opetusta antavien yksiköiden toimintaa

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

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

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

Study of Aerosols of Black Liquor Combustion

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

CFD-Modeling of Fume Formation in Kraft Recovery Boilers

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

CFD-modeling of fume formation in kraft recovery boilers

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

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

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

Liite 6: Yleistä kaivannaisjätealueista ja patoturvallisuudesta

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

Acceptability of contaminated soils and waste materials in landfill structures

Geo + Ympäristö = Ympäristögeotekniikka?

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

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

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

Liikenteen päästötavoitteiden saavuttaminen 2030 - politiikkatoimenpiteiden tarkastelu

Yli 60 tonnin yhdistelmät parantaneet kuljetusten tehokkuutta

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

Sähköautoilun edistäminen vaatii latausmahdollisuuksien kehittämistä

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

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

Measures for Energy Efficient and Low Emission Private Mobility

The effect of anode potential on bioelectrochemical and electrochemical tetrathionate degradation

Ballast bed

Sleepers

Älypölkky, radan monitorointi, kreosoottipölkyn korvaavat vaihtoehdot

Tutkimusohjelma Elinkaaritehokas RAta (TERA)
Kokonaisvaltainen ote ratarakennetutkimukseen

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

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

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

Factors affecting the elimination capacity of a passive methane biofilter

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

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

Joukkoliikenteellä on tärkeä rooli liikenteen päästöjen vähentämisessä

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

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

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

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

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

Sisäympäristön laadun ja terveellisuuden arviointi energiaparannuskohteissa

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

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

Production of Oleaginous Microbial Biomass by Reusing Wastewaters

Rakennusten energiankulutuksen perusskenaario Suomessa 2015-2050

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

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

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

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

Stabilization of fine fraction from landfill mining in leach bed reactor

Characterization of fine fraction from landfill mining for evaluating methane potential

Characterization of fine fraction mined from two Finnish landfills

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

Ravinnevisio

Selvitys Pirkanmaan puhdistamolietteen ja biojätteen ravinteista ja niiden potentiaalisesta käytöstä

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

Characterization and biological stabilization of fine fraction from landfill mining

Scaling up the treatment of the fine fraction from landfill mining
Mass balance and cost structure

Waste water treatment by multi-stage biofilm processes : Results of the VESITURVA project

Bioenergy consumption and biogas potential in Cambodian households

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

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

Metals removal and recovery in bioelectrochemical systems
A review

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

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

Flotaatiokennon injektorin diffuusori

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

Simulointi nopeuttaa käyttöiän määrittämistä

Application oriented wear testing of wear resistant steels in mining industry

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

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

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

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

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

An example of exposure to magnetic fields in the home

Fluidized bed bioreactor for multiple environmental engineering solutions

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

Occupational Exposure to Extremely Low Frequency Electric Fields in Office Work

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

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

Developing and testing characterization methods for droplet combustion - Part I

Developing and testing characterization methods for droplet combustion - part II

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

Feasibility of Flexible Biomass Utilization in Energy Systems

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

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

Removal of odours in dry toilets by biofiltration

Biofiltration of odours in dry toilet air

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

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

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

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

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

Vesi kuntayhteistyön voiteluaineena

Translated title of the contribution: : Vesi kuntayhteistyön voiteluaineena

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

Reducing CO₂ emissions from freight

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

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

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

Rural household electricity load profiles with a load simulation tool

Environmental impact of micropollutants present in urine

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

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

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

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?)

Pohjavesi, meidän vesi

Verkoston varrella

Asiakkaat, verkostot ja henkilöstö

Asset Life Cycle Management in Finnish Water Utilities

Genesis of Water supply and sanitation services in Finland

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

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

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

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

Luminescent bacteria-based sensing method for methylmercury specific determination

Sanitation, water and health

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

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

Bacterial community transcription patterns during a marine phytoplankton bloom

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

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

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

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

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

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

Näkökulma-kolumni: Putkiremontit kestävät aivan liian kauan

Towards bioproduction of poly- α -olefins from lignocellulose

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

Rewiring the wax ester production pathway of acinetobacter baylyi ADP1

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

Gestao e organizacao dos servicos de saneamento : Abordagens europeias.

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

Autolaskurin käyttöopas ja laskennan perusteet

Sähköautoilla suuri vähennys päästöihin - pian myös kilpailukykyiseen hintaan

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

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

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

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

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

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

Valorization of Finnish mining tailings for use in the ceramics industry

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

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

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

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

Energistä utopiaa?