

Programme- Nano4water 2014

Day 1 April 23, 2014

Session 1

Chair: **A Mathew**

8:00 – 9 :00	Conference registration
9:00 – 9: 20	Opening remarks by the organisers Aji Mathew and Kristiina Oksman
9:20 - 10:00	European Water research agenda and funding opportunities Inge Genné and Stefaan Vandendriessche

10:00-10:30 Coffee Break

Session 2 :

Project presentations

Chair: **Marcus Weyd**

10:30- 10:50 NAPES	Simon Coleman , Next generation analytical platforms for environmental sensing-New technologies for old challenges
10:50- 11:10 CERAMPOL	Mirko Faccini , Diego Morillo, Nanofiber membranes with selectivity towards heavy metal and rare earth metals as innovative material at CERAMPOL EU project
11.10- 11:30 NANOPUR	Sabine Paulussen , Emanuele Di Nicolo, Aldo Sanguineti, Hans Miltner, Gabriella Da Ponte, Atmospheric pressure plasma treatment for hydrophilization and functionalization of PVDF membranes
11:30- 11:50 LbLBrane	Daniel Menne, John Erik Wong , Mattias Wessling; Recent progress achieved in LbLBRANE

11:50 – 13:00 Lunch

Session 3:

Project presentations

Chair: **Mirco Faccini**

13:00- 13: 20 Cerawater	Marcus Weyd Ceramic nanofiltration membranes of enlarged membrane area for water application- Cerawater Project Results
13: 20- 1340 NanoSelect	Aji Mathew , Zoheb Karim, Peng Liu, Krstiina Oksman, Vanja Kokol, Elina Saarivouri, Tiina Pajula, Bio-based membranes and adsorbents for water purification: NanoSelect activities
13:40-14:00 NFSM	Piotr Smektala , Marta Mazurkiewicz, Artur Małolepszy, Jerzy Wielbo, Leszek Stobiński, Jakub Michalski, Polypropylene pre-filtration media with biocidal properties
14:00- 14: 20 NatioMEM	H. Fakhouri, D Ben Salem, O Carton, A Dorit, J. Pulpytel , F. Arefi-Khonsari, Highly efficient photocatalytic T102 coatings deposited by open air atmospheric pressure plasma jet with aerosolized TTIP precursor

14:20- 15:00 Coffee Break

Session 4

Chair: **Sabine Paulussen**

15:00- 15:20	Stefano Zuin , Petra Scanferla, Gabrielle Da Ponte, Sabine. Paulussen ; Functionalization of polymeric membrane by plasma treatment: the LCA case study of NANOPUR project
15: 20- 15:40	Ashok Vaseashta , Technology nexus for water contamination detection, monitoring and remediation
15:40- 16:00	Cagri Uzum , Matheusz Olszyna, Lars Dähane, Carlos Wever, Jens Potreck, Holger Krawczyk, Cheil van Foeken, Modification of polymeric, ceramic and silicon carbide membranes with nanoscale polyelectrolyte coatings using layer-by-layer technology
16:00- 16:20	Veronika Dick , Peter Klein, Molecular dynamics study of water transport through hydrophilized PVDF membranes
16:20- 16:40	E. García-Bordejé, L. Kiwi-Minsker, T. Yuranova, C. Franch, AE. Palomares , Bromate catalytic reduction in continuous mode using metal catalysts supported on monoliths coated with carbon nanofibers

End of day 1

18:30 – 22:30 Dinner@ Vasa Museum, Stockholm

Day 2 April 24, 2014

Session 5

Chair: **Inge Genne**

09:00- 09:40	Key note lecture: Prof. Rong Wang Recent development of forward osmosis membrane technology for water production and energy recovery
09:40- 10:00	Joris de Groot , Jeroen Ploegmakers, Carlos Wever, Jens Potreck, Physically and chemically stable polyelectrolyte multilayer nanofiltration membranes
10:00- 10:20	Darko Belavic , Danjela Kuscer, Marina Santo Zarnik, Tadej Rojac, K. Makarovic, A.Bencan, Barbara Malic, B. Thorstensen, Mirko Faccini , Ceramic microsystems: A challenge for portable water- purification devices

10:20-11:00 Coffee Break

11:00- 11:30 Poster session and evaluation

Session 6 Adsorbents for water cleaning

Chair: Kristiina Oksman

11:30- 11:50	Andreas Mautner , Ling L, Ching Wong, Kang Li, Alexander Bismarck, Nanocellulose-PolyHIPE composites for the removal of heavy metal ions
11:50- 12:10	Diego Morillo , Mirko Faccini, David Amantia, Manuel Valiente, Gustavo Perez, Functionalised nanofibers for heavy metal removal from waste water_ Novel adsorbent system based in nanomaterials for arsenic removal from waste water
12:10-12:30	Nadine Bou Orm, Stephane Daniele ; Smart hybrid nano-composite devices for removal of PAH micropollutant from waste waters

12:30 - 13:30 Lunch**Session 7: Antifouling strategies****Chair: John Wong**

13:30- 13: 50	Houssine Sehaqui, Uxua Perez de Larraya , Sebastien Josset, Javier Regal, M.arkus Heeb,Numa Pfenninger, Iлона Szivak, Juncal Estella, Tanja Zimmermann, Philippe Tingaut; Cationic cellulose nanofibrils from sludge as sorbents of negatively charged contaminants with antifouling characteristics
13:50- 14: 10	Anita Buekenhoudt , Ghulam Mustafa, Kenny Wyns, Vera Meynen, Smart surface functionalization of ceramic nanofiltration (NF) membranes t drastically decrease their fouling tendency in water treatment
14:10- 14: 30	Danjela Kuscer , Tadej Rojac , Andraz Bradesko, Marino Santo Zarnik, Darko Belavic, Barbara Malic, Piezoelectric vibration based self-cleaning system for water purification

14: 30- 15:00 Coffee Break**Session 8****Chair: Kang Li**

15:00- 15:30	Zeynep Altintas, Ibtisam E Tothill , Molecularly imprinting polymer based affinity system for pharmaceuticals detection and removal using biomimetic based biosensor
15:30- 15:50	Information session/ distribution of poster prizes
15:50- 16:00	Closing remarks
