

Programme - Nano4water 2014 (Preliminary Schedule)

Day 1 April 23, 2014

Session 1

Chair: **A Mathew**

08:00 – 09 :00	Conference registration
09:00 – 09: 20	Opening remarks by the organisers (A. Mathew and K. Oksman)
09:20 - 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	Mirco Faccini , Deogo Morillo, Nanofiber membrans with selectivity as innovative material at CERAMPOL EU project
11.10- 11:30 NANOPUR	Sabine Paulussen et al, Atmospheric pressure plasma treatment of PVDF membranes
11:30- 11:50 LBLBrane	Daniel Menne, John Wong , Mattias Wesslig; 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 et al Bio-based membranes and adsorbents for water purification: NanoSelect activities
13:40-14:00 CHEMWATER	Inge Genné : Results of Coordination action on Water-chemistry synergies
14:00- 14: 20 NatioMEM	H. Fakhouri, D Ben Salem, O Carton, A Dorit, Ji. 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	S. Zuin , P. Scanferla, GD Ponte, S. Paulussen ; Functionalization of polymeric membrane by plasma treatment: the LCA case study of Nanopur project
15: 20- 15:40	A. Vaseashta , Technology Nexus for water contamination detection, monitoring and remediation
15:40- 16:00	C. Uzum et al, Modification of polymeric ceramic and silicon carbide membranes with nanoscale polyelectrolyte coatings using layer-by-layer technology
16:00- 16:20	V. Dick , P. 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	J de Groot , J. Ploegmakers, C Wever, J Potreck, Physically and chemically stable polyelectrolyte multilayer nanofiltration membranes
10:00- 10:20	D. Belavic , D.Kuscer, MS Zarnik, T. Rojac, K. Makarovic, A.Bencan, B. Malic, B. Thorstensen, M. 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	A.Mautner , L. Ling, K. Li, A. Bismarck, Nanocellulose-PolyHIPE composites for the removal of heavy metal ions
11:50- 12:10	D.Morillo , M. Faccini, D. Amantia, M. Valiente, G. 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	N. Bou ORM, S. Daniele ; Smart hybrid nano-composite devices for removal of PAH micropollutant from waste water

12:30 – 13:30 Lunch

Session 7: Antifouling strategies

Chair: John Wong

13:30- 13: 50	H.Shaqui , U. Perez de Larraya, S. Josset, J. Regal, M., Heeb, N.Pfenninger, I. Szivak, J. Estella, T. Zimmermann, P. Tingaut; Cationic cellulose nanofibrils from sludge as sorbents of negatively charged contaminants with antifouling characteristics
13:50- 14: 10	A. Buekenhoudt , G. Mustafa, K. Wyns, V. Meynen, Smart surface functionalization of ceramic nanofiltration (NF) membranes t drastically decrease their fouling tendency in water treatment
14:10- 14: 30	D. Kuscer , T. Rojac A. Bradesko, MS Zarnik, D Delavic, B Malic, Piezoelectric vibration based self-cleaning system for water purification

14: 30- 15:00 Coffee Break

Session 8

Chair: Simon Coleman

15:00- 15:30	Z. Altintas, IE 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