

BioSC International Workshop

„Sustainable solutions for closing nutrient loops using algae“

September 19 th , 2019 NGP ² Forckenbeckstraße 51, 52074 Aachen																																								
9:30	Registration and Welcome Coffee																																							
10:00	Welcome and organization	Ladislav NEDBAL <i>Forschungszentrum Jülich, Germany</i>																																						
10:05	Summary of the 2018 workshop conclusions	Patrik JONES <i>Imperial College London, UK</i> Dean CALAHAN/David BLERSCH <i>Forschungszentrum Jülich, Germany/Auburn University, USA</i> Tania V. FERNANDES <i>Netherlands Inst. Of Ecology (NIOO-KNAW), Wageningen, The Netherlands</i>																																						
11:00	Summary of the ATS pre-workshop	Dean CALAHAN <i>Forschungszentrum Jülich, Germany</i>																																						
12:00	Lunch																																							
13:00	Pitch presentations	<table style="width: 100%; border: none;"> <tr><td>Alshawamreh</td><td>Loay</td></tr> <tr><td>Baldassarre- Svecova</td><td>Eva</td></tr> <tr><td>Dombinov</td><td>Vitalij</td></tr> <tr><td>Hasport</td><td>Nils</td></tr> <tr><td>Hofmann</td><td>Diana</td></tr> <tr><td>Jablonowski</td><td>Nicolai David</td></tr> <tr><td>Kant</td><td>Josefine</td></tr> <tr><td>Kuchendorf</td><td>Christina</td></tr> <tr><td>Mansouri</td><td>Hakimeh</td></tr> <tr><td>Mau</td><td>Lisa</td></tr> <tr><td>Müller</td><td>Andreas</td></tr> <tr><td>Portius</td><td>Eva</td></tr> <tr><td>Ruff</td><td>Anna Joelle</td></tr> <tr><td>Schrey</td><td>Silvia</td></tr> <tr><td>Theilen</td><td>Ulf</td></tr> <tr><td>Valton</td><td>Marine</td></tr> <tr><td>Vasilieva</td><td>Svetlana</td></tr> <tr><td>Weber</td><td>Sophie</td></tr> <tr><td>Willbold</td><td>Sabine</td></tr> </table>	Alshawamreh	Loay	Baldassarre- Svecova	Eva	Dombinov	Vitalij	Hasport	Nils	Hofmann	Diana	Jablonowski	Nicolai David	Kant	Josefine	Kuchendorf	Christina	Mansouri	Hakimeh	Mau	Lisa	Müller	Andreas	Portius	Eva	Ruff	Anna Joelle	Schrey	Silvia	Theilen	Ulf	Valton	Marine	Vasilieva	Svetlana	Weber	Sophie	Willbold	Sabine
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13:45	Summary information about the virtual special issue of Algal Research 2019	Patrik JONES <i>Imperial College London, UK</i> Ladislav NEDBAL <i>Forschungszentrum Jülich, Germany</i>																																						

14:00	Lecture I: Microalgae-based wastewater treatment <i>Session chair: Patrik Jones, Imperial College London, UK</i>	
	Closing cycles from wastewater by microalgae: future challenges	Tania V. FERNANDES <i>Netherlands Inst. Of Ecology (NIOO-KNAW), Wageningen, The Netherlands</i>
	The immediate future of ATS in Germany	Dean CALAHAN <i>Forschungszentrum Jülich, Germany</i>
	Treatment of hydroponic greenhouse effluent with Nordic microalgae	Sema SIRIN <i>University of Turku, Finland</i>
	Phos4You - Chlamydomonas acidophila as an alternative for Phosphorus recovery from wastewater	Ania ESCUDERO <i>Glasgow Caledonian University, Scotland</i>
15:00	Lecture II: Microalgae physiology <i>Session chair: Ladislav Nedbal, Forschungszentrum Jülich, Germany</i>	
	Intracellular storage of P absorbed by microalgae during luxury uptake	Alexei SOLOVCHENKO & Alexandr LUKYANOV <i>Lomonosov Moscow State University, Russia</i>
	Raman microscopy of microalgae: A useful tool for rapid monitoring of energy- and nutrient-storing structures at the single-cell level	Peter MOJZES <i>Charles University, Czech Republic</i>
	Dynamics of P and N reserves in algal cells as revealed by Raman microscopy (biology)	Lu GAO <i>Forschungszentrum Jülich, Germany</i>
	Improvement of photosynthesis for bioproduction	Yagut ALLAHVERDIYEVY-RINNE <i>University of Turku, Finland</i>
	tba	Patrik JONES <i>Imperial College London, UK</i>
16:15	Coffee Break	
16:45	Lecture III: Microalgae applicaion <i>Session chair: Tania v. Fernandes, Netherlands Inst. Of Ecology (NIOO-KNAW), Wageningen, The Netherlands</i>	
	The ValuePP process – Biotechnological phosphate recycling from canola seed press cake into food-grade polyphosphate	Jonas Johannes CHRIST <i>RWTH Aachen University, Germany</i>
	Biofertilization of wheat with algal biomass reducing soil nitrous oxide emission without yield penalty in desert agroecosystems	Ilya GELFAND & Inna KHOZIN-GOLDBERG <i>Ben Gurion University, Israel</i>
	Algae technology in rural areas and development projects	Diana REINECKE-LEVI <i>Forschungszentrum Jülich, Germany</i>
	Using algae for nutrient uptake from wastewater effluent	Holger KLOSE <i>Forschungszentrum Jülich, Germany</i>
17:45	Wrap-up	Ladislav NEDBAL <i>Forschungszentrum Jülich, Germany</i>
18:00	Dinner	
19:00	Networking	