

The 5th

UK Algae Conference



University of Glasgow | School of Engineering

10th July 2015

John McIntyre Building, Room 201

Event Programme

Welcome

- 09:00-09:30 Registration and Coffee
- 09:30-09:40 Welcome & Introduction from Glasgow University Principal

Session 1 Algae and Waste Optimisations

Chair: Dr. Jags Pahadle

- 09:40 - 10:10 **Prof Yoshihiro Shiraiwa – Tsukuba.** *Algal Bioremediation of Water Contaminated by Radionuclides and the concentration of Microelement.*
- 10:10 - 10:25 **Michael Ross – University of Edinburgh.** *Wastewater Bioremediation from Filamentous Algae.*
- 10:25 - 10:40 **Thea Coward – Swansea.** *Manufacturing with Light: Utilising Light Emitting-Diodes (LEDs) for Controllable and Reproducible Production of High-Value Products from Microalgae.*
- 10:40 - 10:55 **David Russo – University of Sheffield.** *Multidisciplinary Analysis of a Freshwater Lake Microbial Community Under Differing Nutrient Regimes.*
- 10:55 - 11:10 **Thomas Butler – SAMS.** *Optimisation of Astaxanthin Production from the Microalga Haematococcus pluvialis.*
- 11:10 - 11:40 Coffee and Networking

Session 2 Algal Genetics and Synthetic Engineering

Chair: Professor Mike Cowling

- 11:40 - 12:00 **Dr Jags Pahadle – University of Sheffield.** **Talk TBA**
- 12:00 - 12:15 **Priscilla Rajakumar - University College London.** *An Oral Vaccine Candidate for Infectious Bronchitis Virus through Chloroplast Engineering of Chlamydomonas Reinhardtii.*
- 12:15 - 12:30 **Marco Larrea Alvarez. - University College London.** *The Chloroplast of Chlamydomonas reinhardtii, A Potential Niche for Biological Nitrogen Fixation.*
- 12:30 - 12:45 **Nahid Awad – Aston University.** *Ornithine Decarboxylase and Increased Norspermidine Production Modulates Cell Division in Chlamydomonas reinhardtii.*
- 12:45 - 13:45 Lunch, Networking, Posters

Session 3**Algae Science****Chair:** Professor Yoshihiro Shiraiwa

13:45 - 14:05

Prof Mike Cowling – The Crown Estate. *A Vision for Macro-Algae as a Source of Marine Biomass for Energy and Chemicals.*

14:05 - 14:20

Aidan Smith – University of Leeds. *Bio-coal, Bio-methane and Fertilizer from Seaweed via Hydrothermal Carbonisation.*

14:20 - 14:35

Mehmood Ali – University of Glasgow. Hydrothermal liquefaction and aqueous phase reforming of algal biomass

14:35 - 14:50

Jonathan McMillan – University of Glasgow. Improving Nile red staining efficiency for detecting neutral lipids in *Nannochloropsis oculata*

14:50 - 14:05

Tantiphaphatthana Manatchanok - Tokyo Institute of Technology. *Hydrothermal Treatment for Production of Value-Added.*

15:05 - 15:20

Marco Lizzul – Varicon. *A UK Model for Tertiary Wastewater Treatment using *Chlorella sorokiniana*.*

15:20 - 15:35

Keiron Roberts – University of Southampton. *Successful Continuous Digestion of Marine Microalgae under Marine Salinities of Chloride and Sulphate Salts.*

15:35-15:55

Dongda Zhang – University of Cambridge. *Dynamic Modelling and Optimisation for Biohydrogen Production.*

15:55 - 16:15

Coffee and Poster Presentation

Session 4**Algal Applications & Industrial Outreach****Chair:** Mr. Jonathan McMillan

16:15 - 16:30

Matthew Pearce – Cranfield University. *Multi-Industrial Waste Integrated Low-Cost Microalgae Harvesting of Microalgae.*

16:30 - 16:45

Dr. Claudio Fuentes Grünewald – Swansea University. *Semi-continuous Culture of *Porphyridium purpureum* in Greenhouse Condition in Wales and their Biotechnological Applications of the Metabolites Produced.*

16:45 - 17:00

Mendoza Martin J.L. – University of Southampton. *Characterization of Raceway Requirements for Efficient Algal Biomass Cultivation.*

17:00 - 17:15

Hadiza Auta - University College London. *Ultra-Scale Down Characterization Of Floc Reactors For Algal Recovery & Scale Up Verification.*

17:15

Dr. Ian Watson – University of Glasgow. Closing Remarks.

17:20

Drinks and Refreshments

18:00

Close of Conference

