LEAF
Low Emission AntiFouling
www.leaf-antifouling.eu

The European Society for Marine Biotechnology

LEAF final conference

29th September 2015

Contribution	Starts
Registration and Coffee (in the hall of Novotel Gothenburg)	08:30
Margaret McNamee - "Welcome Address from SP" CTO and Vice CEO of "SP – Technical Research Institute of Sweden"	09:00
Jukka Lausmaa – "Welcome address from LEAF coordinator" PhD, Associate Professor, Coordinator for the LEAF project.	09:05
Sergey Dobretsov - Invited keynote Speaker- "Combating marine biofouling" Assoc. Prof. and Head of Department of "Marine Science and Fisheries"	09:10
Lena Lindblad – Invited Speaker - "Antifouling, from research to market uptake" Assoc. Prof. University of Gothenburg & R&D Director for "I-Tech"	09:40
Emiliano Pinori - "Introduction and brief overview on the LEAF project" PhD Scientist "SP – Technical Research Institute of Sweden"	10:00
Coffee Break	10:20
Claire Hellio - "Novel Bioassays for biocides screening" Professor at UBO, "University of Western Brittany" Brest, France.	10:50
Anna-Lisa Wrange - "Post settlement tests using barnacles in laboratory" PhD Scientist at University of Gothenburg	11:10
Mattias Berglin - "Fine-tuning paint ingredients and active principle for Low Emission" PhD Scientist "SP – Technical Research Institute of Sweden"	11:30
Ana Cartaxo - "Antifouling innovation from the shipyard point of view" Quality Control Manager at Lisnave, Estaleiros Navais SA, Setubal, Portugal.	11:50
Lunch and networking	12:15

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Mauro Legrottaglie*; Simone Garofoli** **"Brief history of last 3 years development of LEAF formulations"** *R&D Manager and **R&D Antifouling Specialist Yacht Coating Business Unit, "Boero Bartolomeo S.p.A.", Genova, Italy	13:15
Ricardo Coutinho – "LEAF test in subtropical water" Research Scientist and head of department at IEAPM, RJ, Brazil	13:40
Zoi Aktypi – "Stability of LEAF biocide formulation for waterborne paint" Quality Assurance and R&D Director, Entarco S.A., Athens, Greece.	14:00
Emiliano Pinori - "Boat Test of "LEAF Prototype": Report from Boat Owners" Technical Coordinator for LEAF project, SP - Technical Research Institute of Sweden	14:20
Tanja Tränkle – Invited Speaker **"Corrosion on foundation structures in an offshore wind park"** Project Manager at "SP, Technical Research Institute of Sweden"	14:35
Apostolos Koutsaftis - "LEAF Prototype's Risk Assessment, brief report on results" Regulatory Affairs Specialist for Ecotoxicology at Battelle UK Ltd, Chelmsford, UK	14:50
Coffee Break	15:10
Giancarlo Galli – "Combining fouling release and LEAF approaches: A proof of concept study" Professor at the Department of Chemistry & Industrial Chemistry, University of Pisa, Italy	15:40
Lisa Bolin - "LCA study on LEAF-paint" Project manager, LCA Expert, at SP – "Technical Research Institute of Sweden"	16:00
Massimo Bonazza - "Exploitation Strategies, the future of LEAF" General Manager Yacht Coating Business Unit, "Boero Bartolomeo S.p.A."	16:20
Jukka Lausmaa - "Concluding remarks" Head of Research, "SP - Chemistry, Materials and Surfaces"	16:40
Torger Børresen - "Introduction to ESMB day - Combating Biofilms" President European Society for Marine Biotechnology (ESMB)	16:45
End of LEAF conference	16:50

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LEAF INVITED SPEAKERS

Sergey Dobretsov is an Associate Professor, Head of Department of Marine Science and Fisheries, Sultan Qaboos University. He has worked with polar, temporal and tropical marine biofouling for more than 20 years, is widely published, and is the co-inventor on four international antifouling patents. He trained as a biologist in St. Petersburg State University, Russia and has worked in leading biofouling research centers in Russia, Hong Kong, Germany and the USA. He has research interests in marine microbial ecology and antifouling. He is on the editorial boards of the journals Marine Ecology Progress Series and Biofouling.

Lena Mårtensson Lindblad is *R&D Manager at I-Tech AB.* Lena holds a PhD in Pharmacology, and is since 2006 an assoc. professor at the Faculty of Science at the University of Gothenburg. She is one the initiators of the research program Marine Paint, as well as one of the inventors and patent holders of the *Selektope®* concept and one of the founders of I-Tech AB

Dr. Apostolos Koutsaftis is a Senior Scientist at Battelle UK Limited where he works as regulatory ecotoxicologist responsible for evaluating ecotoxicological data, monitoring laboratory studies, and conducting risk assessment for pesticides, biocides, and chemicals, according to EU legislation. He previously worked for the Environmental Protection Authority (EPA) in New Zealand. He was the project leader of the antifouling paints reassessment being primarily in charge of project co-ordination, environmental risk assessment, and effective liaison with paint manufacturing industry, overseas regulators, central and local government stakeholders, Māori groups, and product users.

Tanja Tränkle joined SP in January 2015 after seven years in the offshore wind industry, where she was involved in planning design and construction of several wind farms in the German North and Baltic Sea. SP, she has been commissioned to seek new ways to apply the SPs expertise in the wind energy field, both on land and at sea. Production of energy from renewable sources is a strategic development area within the business area Energy, as Tanja's expertise is a welcome enhancement.

Giancarlo Galli is a Professor of Industrial Chemistry at the University of Pisa, Italy. His research activity concerns the synthesis, characterization and properties of functional polymers. He takes advantage of the self-assembling capacities and low surface energy properties of polymer films in diverse applications in the fields of nanopatterning, nanoimprinting and nanorecording. Major attention is devoted to creating nanostructured surfaces that respond over different length and time scales for the antifouling and fouling release performance against marine organisms.

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ESMB Day "Combating biofilm"

30th September

Contribution	Starts
Torger Børresen - Welcome address President European Society for Marine Biotechnology (ESMB)	09:00
Johan Svenson - Invited Keynote Speaker "Tuning Novel Natural Compounds from the Arctic to Target Unwanted Marine Colonizers" PhD Scientist at "SP – Technical Research Institute of Sweden"	09:10
Sergey Dobretsov - Invited Keynote Speaker - "Combatting biofilms using zinc oxide nanorod photocatalytic coatings" Assoc. Prof. and Head of Department of "Marine Science and Fisheries"	09:40
Rozenn Trepos – " Anti-biofilms properties of sulphates polysaccharides from algae " Research Associate, University of Portsmouth , UK	10:00
Coffee break and networking	10:20
Tim Sullivan Invited keynote speaker – 'The role of surface topography in combatting marine biofilms' Post Doc. at Technical University Eindhoven, the Netherlands.	10:40
Maria Salta – Marine biofilms: know thy "enemy" Lecturer in Environmental Microbiology, University of Portsmouth, UK.	11:10
Francesco Secundo "Immobilized hydrolytic enzymes for antibiofilm applications" Research Scientist - CNR, Milano, Italy	11:30
General discussion on morning presentations	11:50
Lunch and networking	12:00
Introduction to workshop topic: **"How to involve students in technology transfer within the biofilm area?"**	13:30
Breakout session in workshop groups	13:45
Presentation of workshop results	14:45
Tea and cake	15:00
Roundtable discussion on bridging the gap between research and industry	15:20
Claire Hellio - "Presentation of an Erasmus placement programme"	15:50
Torger Børresen – "Concluding remarks"	16:20
Adjourn	16:30

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ESMB INVITED SPEAKERS

Torger Børresen currently holds a position as Senior Executive Officer at the Technical University of Denmark. He has for many years been a member of ESMB, and has research interests in converting marine biomass to food, feed and other products. His general background is biochemistry and aquatic food. He has served on several working groups on Marine Biotechnology, of which can be mentioned the European Marine Board-ESF ad hoc group for drafting Position Paper 15 'Marine Biotechnology: A new vision and strategy for Europe'

Johan Svenson obtained his PhD in Bioorganic Chemistry in 2003. After postdoctoral stays in New Zealand and Norway he joined the *Mabcent* marine bioprospecting program in 2007 and was employed as senior scientist and manager for the *Smallstruct* platform working on bioactive secondary metabolites. In 2013, he established his own lab at the University of Tromsø where the focus was on marine derived antifouling natural products. Dr. Svenson was recently employed by SP Technical Research Institute of Sweden as senior scientist working with antifouling for both marine and medical applications.

Sergey Dobretsov is an Associate Professor, Head of Department of Marine Science and Fisheries, Sultan Qaboos University. He has worked with polar, temporal and tropical marine biofouling for more than 20 years, is widely published, and is the co-inventor on four international antifouling patents. He trained as a biologist in St. Petersburg State University, Russia and has worked in leading biofouling research centers in Russia, Hong Kong, Germany and the USA. He has research interests in marine microbial ecology and antifouling. He is on the editorial boards of the journals Marine Ecology Progress Series and Biofouling.

Timothy Sullivan Tim has a degree in Environmental Science from University College Cork, Ireland, and a PhD in antifouling materials development from Dublin City University (2012). Tim's research interests are in the development of novel antifouling materials and coatings for marine applications, including environmental sensors. After a period as a postdoctoral researcher at Dublin City University, where he managed a number of environmental sensing and antifouling development projects, Tim has recently (Sept. 2015) moved to the Department of Chemical Engineering and Chemistry at Technical University Eindhoven in the Netherlands, where he will work exclusively on the development of antifouling coatings for marine applications.