"Musée National de la Marine"

Place Monsenergue, Toulon

18:30 to 21:00 Registration & Welcome Reception

MONDAY June 20, 2016	
"Palais Nent	une" Level 1
8:00	- 8:30
Regist	tration
Auditorium Vauban (Entrance: Level 2 & Level 3)	
8:30	- 9:20
Оре	ning
9:20 - 10:00 Plenary lectu Fouling in times	of global change
Pr. Martin WAHL, GEOMAR Helmholtz	Centre for Ocean Research, Germany
10:00 - 10:30	
Coffee break	
Auditorium Vauban: Biofilms & Microbial fouling	Room Colbert: Cathodic protection in marine
Chairs: Pr. Peter STEINBERG and Pr. Claire HELLIO	environment
10:20 11:00 Koursets 14 Understanding the missehiers	Chairs: Anne-Marie GROLLEAU and Dr. Emmanuel ARAGON
of the seaweed holohiont	marine organisms: what are the interactions?
Pr. Peter STEINBERG, Sydney Institute of Marine Science.	Anne-Marie GROLLEAU, DCNS Research, France
Australia	
11:00 - 11:20 Oral 1A Metagenomic analyses of ship hull	11:00 - 11:20 Oral 1B Harbour of Calais – Cathodic
biofouling communities	protection monitoring of marines structures
Gary J. VORA, Naval Research Laboratory, USA	Jérôme CROUZILLAC, BAC Corrosion Control, France
11:20 - 11:40 Oral 2A Responses of marine microbial	11:20 - 11:40 Oral 2B Compositional, environmental and
biofilm communities to contrasted antifouling coatings	accelerated testing considerations for the development
in two French Mediterranean sites	of new cathodic delamination-resistant coatings for
Thomas Pollet, MAPIEM, France	marine hardware
	USA
11:40 - 12:00 Oral 3A Biofilm community structure and	11:40 - 12:00 Oral 3B Ensure effectiveness of marine
associated drag penalties on groomed ship hull coatings	applications of cathodic protection by using
Kelli HUNSUCKER, Florida Institute of Technology, USA	standardization and certification of competence
	Marcel ROCHE, CEFRACOR, France
12:00 - 12:20 Oral 4A Bubbles vs biofilms: a new method	12:00 - 12:20 Oral 4B Oil and gas subsea equipment - CP
for biofilm removal	challenges in Australia
Maria SALTA, University of Portsmouth, UK	Paul GEORGESON, Wood Group, Australia
12:30 - 14:00	

Lunch (offered)

MONDAY June 20, 2016	
Room Colbert: Biofilms & Microbial fouling	Room Bonaparte: Novel methods to evaluate antifouling
Chairs: Pr. Peter STEINBERG and Pr. Claire HELLIO	efficacy and detect biofouling
	Chairs: Pr. Iwona BEECH and Dominique THIERRY
14:10 - 14:30 Oral 5A Regulation of the epibiotic	14:00 - 14:30 Keynote 2B Metabolomic and genomic
bacterial community by the surface metabolome of the	imaging of marine biofilms as tools for the study and
brown alga <i>Taonia atomaria</i>	control of marine biofouling
Ahlem Отнмалі, MAPIEM, France	Pr. Iwona BEECH, University of Oklahoma, USA
14:30 - 14:50 Oral 6A Fluctuating defence with	14:30 - 14:50 Oral 5B 3D scanning to capture
fluctuating time: Temporal variation in the antifouling	configuration and arrangement of fouling roughness
defence of the brown alga Fucus vesiculosus	Scott Storms, Naval Surface Warfare Center, USA
Mahasweta SAHA, Helmholtz Center for Ocean Research,	
GEOMAR, Germany	
14:50 - 15:10 Oral 7A Deep-sea bacterial biofilm	14:50 - 15:10 Oral 6B Rapid performance testing of
communities growing on oceanographic instruments	commercially available hull coatings for navy ships
Nikoleta Bellou, Hellenic Centre for Marine Research,	Job KLIJNSTRA, ENDURES BV, The Netherlands
Greece	
15:10 - 15:30 Oral 8A Biofilm ecology of antifouling	15:10 - 15:30 Oral 7B LimnoMar's RotoMarin [®] - A new
surfaces in tropical marine environments	opportunity for dynamic field testing
Siti Zarina Zainul RAHIM, National University of Singapore,	Bernd DAEHNE, LimnoMar, Germany
Singapore	
15:30 - 15:50 Oral 9A Structure of bacterial and diatoms	15:30 - 15:50 Oral 8B How clean is this surface? Rapid
communities on artificial substrata	and quantitative methods to assess biofouling
Sergey Dobretsov, Sultan Qaboos University, Oman	R. Shahe Addleman, Pacific Northwest National
	Laboratory, USA
15:50	16:20
Coffee	break
Room Colbert: Advances in fouling release technologies	Room Bonaparte: Novel methods to evaluate antifouling
Chair: Pr. Christopher K. OBER	efficacy and detect biofouling
	Chair: Pr. Iwona Веесн
16:20 - 16:50 Keynote 2A The future of fouling release:	Chair: Pr. Iwona BEECH 16:20 - 16:40 Oral 9B Probing diatom adhesion by
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TUESDAY June 21, 2016	
8:30 - 9:10 Plenary lectu	re 2 - Auditorium Vauban
Ambiguous surfaces: Antifouling and fouli	ng release coatings based on self-assembly
Pr. Christopher K. OBER	, Cornell University, USA
Auditorium Vauban: Biocidal antifouling technologies	Room Colbert: Microbiologically induced corrosion -
Chairs: Pr. Prof. Guangzhao ZHANG and Dr. Marlène LEJARS	Biocorrosion
	Chairs: Pr. Robert MELCHERS and Dr. Brenda LITTLE
9:20 - 9:50 Keynote 3A Inhibition of marine biofouling by	9:20 - 9:50 Keynote 3B Effect of nutrient pollution on
self-renewal surface consisting of biodegradable	long-term microbiologically influenced corrosion of steel
polymers	and cast iron infrastructure
Pr. Prof. Guangzhao ZHANG, South China University of	Pr. Robert MELCHERS, The University of Newcastle,
Technology, China	Australia
9:50 - 10:10 Oral 15A Development of new hybrid	9:50 - 10:10 Oral 15B Formation mechanisms for iron-
antifouling coatings ecofriendly	rich accretions from World War II shipwrecks in the Gulf
Fabrice AZEMAR, Laboratoire de biotechnologie et chimie	of Mexico
marines (LBCM), France	Brenda LITTLE, Naval Research Laboratory, USA
10:10 - 10:30 Oral 16A Degradable silyl acrylate	10:10 - 10:30 Oral 16B <i>S. loihica</i> PV-4: model organism to
copolymer: a novel design for self-polishing antifouling	study biocorrosion and antifouling coating materials
coatings	Monica EPIFANIO, Dublin City University, Ireland
Chunteng MA, South China University of Technology,	
China	
10:20	11.00
10.50	- 11.00
Conee	E DI CAR
11:00 - 11:20 Oral 17A Antifouling coatings containing	11:00 - 11:20 Oral 17B Electrochemical study of epoxy
modified nanoparticles with dual antimicrobial effect	coated mild steel in different aqueous environment
Marios MICHAILIDIS, University of Liverpool, UK	Umadevi Vadamadurai RATHINAVELU, Delft University of
	Technology, The Netherlands
11:20 - 11:40 Oral 18A Chitosan-ZnO nanocomposite	11:20 - 11:40 Oral 18B Potential ennoblement of
coatings for the prevention of marine biofouling	stainless steel in seawater: influence of dissolved oxygen
Laili AL-NAAMANI, Sultan Qaboos University, Oman	content and pressure
	Charles LEBALLEUR, Institut de la Corrosion, France
11:40 - 12:00 Oral 19A The efficacy of grooming on	11:40 - 12:00 Oral 19B SRB induced accelerated
antifouling coatings	corrosion attack of high strength steel under - 0.85V vs
Emily RALSTON, Florida Institute of Technology, USA	SCE cathodic polarization potential
	Jizhou DUAN, Institute of Oceanology, Chinese Academy of
	sciences, China
12:00 - 12:20 Oral 20A Anti-fouling paint based on gel	12:00 - 12:20 Oral 20B Local mooring chain corrosion-
encapsulated biocide technology for large vessels and	microbial analysis of <i>in-situ</i> samples
ships	Nanni Noël, Endures B.V., The Netherlands
Eva WALLSTROM, EnCoat ApS, Denmark	
12:30 - 14:00	
Lunch (not provided)	

TUESDAY June 21, 2016	TUESDAY June 21, 2016	
Room Colbert: Macrofouling	Room Bonaparte: Regulation of AF/Corrosion products &	
Chair: Dr. Nick ALDRED and Pr. Claire HELLIO	Environmental issues	
	Chair: Dr. Andrew TURNER	
14:00 - 14:30 Keynote 4A Progress in the study of	14:00 - 14:30 Keynote 4B Environmental issues	
adhesion by marine invertebrate larvae	associated with antifouling waste	
Dr. Nick ALDRED, Newcastle University, UK	Dr. Andrew TURNER, University of Plymouth, UK	
14:30 - 14:50 Oral 21A Stereoscopic tracking reveals	14:30 - 14:50 Oral 21B Risk assessment – Regional	
responses of barnacle larvae to surface cues	assessments of copper based antifouling paints	
Axel Rosenhahn, Ruhr-University Bochum, Germany	Kevin LONG, Regulatory Compliance Ltd., UK	
14:50 - 15:10 Oral 22A Developing a sensory architecture	14:50 - 15:10 Oral 22B Efficiency and toxicity of	
for response of larval barnacles Amphibalanus	antifouling sealer coats	
amphitrite to surface properties	João Ferreira, Stockholm University, Sweden	
Eric HOLM, Naval Surface Warfare Center, USA		
15:10 - 15:30 Oral 23A Colorful side of fouling:	15:10 - 15:30 Oral 23B <i>In situ</i> studies of antifouling paint	
environmental benefit for coral reefs and beyond	toxicity on snails	
Yehuda BENAYAHU, Tel Aviv University, Israel	Maria Bighiu, Stockholm University, Sweden	
15:30 - 15:50 Oral 24A Importance of roughness for	15:30 - 15:50 Oral 24B Evidencing the impact of trace	
marine fouling-laboratory and field tests of algae and	metals release from antifouling paints into coastal	
barnacles	Mediterranean environments: insights from Krka Estuary	
Lena GRANHAG, Department of Snipping and Marine	(Croatia) and Toulon Bay (France)	
rechnology, sweden	Cedric GARNIER, Universite de Toulon, laboratoire PROTEE,	
	France	
15:50	- 16:20	
Coffee	break	
16:20 - 16:40 Oral 25A Using environmental data to	16:20 - 16:40 Oral 25B Antifouling innovation in a highly	
describe trends in fouling recruitment: an eastern Florida	regulated environment: thinking outside the box or	
example	ticking boxes? The here and now of EU-BPR	
Kody LIEBERMAN, Florida Institute of Technology, USA	Linda JONES, Annex3 Consulting, The Netherlands	
16:40 - 17:00 Oral 26A Cement proteomics: shared traits	16:40 - 17:00 Oral 26B Organotin speciation in historic	
and conserved chemistries in barnacle cement proteins	layers of antifouling paint on leisure boat nulls	
Christenher So, US Novel Desearch Laboratory, USA	Maria LAGERSTROM, SLOCKHOIM UNIVERSILY, Sweden	
17:00 17:20 Oral 27A Spatial biochemical organization	17:00 17:20 Oral 27D New analytical mathematic	
17:00 - 17:20 Oral 27A Spatial - Biochemical organization	17:00 - 17:20 Oral 27B New analytical method to	
roattachment	Frik VTREDERC, Chalmars University of Technology, Sweden	
Daniel RADIOW, US Naval Research Laboratory, USA	Elik Treberg, Chaimers Oniversity of Technology, Sweden	
17:20 17:40 Oral 284 Crack propagation in barnacle	17:20 17:40 Oral 28P A noval VPE application for heat	
interfaces	inspection - East quantification of tin copper and zinc	
Kathryn WAHL LIS Naval Research Laboratory LISA	Britta Ekulund Stockholm University Sweden	
Radin yn WARL, OS Navai Research Laboratory, OSA	Britta Ekelönd, Stockholm Oniversity, Sweden	
18:00 - 20:30		
Desta		
Postei	rnight	

WEDNESDAY June 22, 2016		
8:30 - 9:10 Plenary led	cture 3 - Room Colbert	
Innovative methods to approach mi	crobial corrosion and its prevention	
Dr. Pierangela Cris	TIANI, RSE SpA, Italy	
Room Colbert: Microbiologically induced corrosion -	Room Bonaparte: Climate changes, invasive species and	
Biocorrosion	biofouling	
Chairs: Pr. Robert MELCHERS and Dr. Brenda LITTLE	Chair: Pr. Martin WAHL	
9:30 - 9:50 Oral 29A Halomonas titanicae - How	9:20 - 9:50 Keynote 5B Increased defenses against	
corrosive is that microorganism actually compared to a	fouling in non-native populations of an invasive seaweed	
sulfate reducer such as Desulfovibrio indonesiensis?	Dr. Florian WEINBERGER, GEOMAR Helmholtz-Zentrum für	
Nanni NoëL, Endures B.V., The Netherlands	Ozeanforschung, Germany	
9:50 - 10:10 Oral 30A Influence of environmental	9:50 - 10:10 Oral 29B LC-MS based metabolomics in	
seasonality on biocorrosion development over stainless	integrated field and laboratory approaches towards	
steel AISI316L exposed to natural seawater	unravelling the impact of metal contamination on	
Leslie DAILLE, Pontificia Universidad Católica de Chile, Chile	marine biofilms	
	Laurie FAVRE, MAPIEM, France	
10:10 - 10:30 Oral 31A Marine electroactive biofilms	10:10 - 10:30 Oral 30B The transport of marine biofilms	
responsible for stainless steel ennoblement - An	through freshwater via the Okeechobee Waterway	
EcoGenomic approach	('Florida's Panama Canal') and their effects on	
Florian TRIGODET, Laboratory of Microbiology of Extreme	subsequent macrofouling recruitment	
Environments LM2E. France	L. Holly Sweat, Florida Institute of Technology, USA	
10:30 -	- 11:00	
Coffee	break	
11:00 - 11:20 Oral 32A Microbial influenced corrosion in	11:00 - 11:20 Oral 31B Barnacle adhesion and	
mixed microbial consortia from equatorial environment	biomineralization in a changing ocean: assessing the	
Enrico MARSILI, Nanyang Technological University,	effects of seawater salinity and pH	
Singapore	Gary H. DICKINSON, The College of New Jersey, USA	
11:20 - 11:40 Oral 33A Effect of Bacillus sp. biofilm on	11:20 - 11:40 Oral 32B New life, new challenge:	
corrosion of Al thermal sprayed coatings and cathodic	antifouling defence patterns of native and non-native	
protection of SS 316L in marine environment	populations of an invasive seaweed suggest a potential	
Leila Авроц. Ningbo Institute of Industrial Technology.	for rapid defence adaptation to new microbial foulers	
China	Mahasweta SAHA. Helmholtz center for Ocean Research.	
	Germany	
11:40 - 12:00 Oral 34A Self-assembled and dip-coated	11:40 - 12:00 Oral 32B Project Helm: big data and	
nanolayers as anti-biofouling protective coatings on	multivariate modeling for fouling risk mitigation	
conner conner alloys and stainless steel	Richard RAMSDEN AkzoNobel Coatings LIK	
Lorand Románszki, Hungarian Academy of Sciences	Renard Rawsben, Akzonober Coatings, ok	
Lungary		
13.00	- 18:00	
Social events (Jur	ach not provided)	
	ien not providedy	
19:15 - Bus departure time		
Congress dinner		

THURSDAY June 23, 2016	
8:30 - 9:10 Plenary led	cture 4 - Room Colbert
Bio-inspired anti-f	ouling compounds
Pr. Peter PROKSCH, Heinrich-Heine University, Germany	
Room Colbert: Impact & Applications of marine fouling	Room Bonaparte: New antifouling responsive and
and corrosion research and technologies	textured surfaces
Chairs: Christine VALENTIN and Anne-Marie GROLLEAU	Chairs: Pr. Fiona REGAN and Pr. André MARGAILLAN
9:20 - 9:50 Keynote 5A Global ocean industry	9:20 - 9:50 Keynote 6B Bio-inspired marine antifouling
collaboration to address the economic and	strategies for improved deployment performance
environmental impacts of marine fouling	Pr. Fiona REGAN, DCU Water Institute, Dublin City
Christine VALENTIN, World Ocean Council, USA	University, Ireland
9:50 - 10:10 Oral 35A Antifouling coatings for marine	9:50 - 10:10 Oral 34B Electroactive polymers based on
energy applications: criteria, challenges, and analysis	ferrocenyl methacrylates for antifouling applications
George BONHEYO, Pacific Northwest National Laboratory,	Marlène Lejars, MAPIEM, France
USA	
10:10 - 10:30 Oral 36A Corrosion and biofouling of	10:10 - 10:30 Oral 35B TRAP Triggered Antifouling
offshore wind monopile foundations	Protection
Claire CANNING, EDF Energy R&D UK Centre, UK	Mattias BERGLIN, SP Technical Research Institute, Sweden
10:30	- 11:00
Coffee	break
11:00 - 11:20 Oral 37A 13 years experience with fouling	11:00 - 11:20 Oral 36B Polymers supported electroactive
release coating on a RNLN frigate	species for antifouling applications
Iob KUINSTRA ENDURES BV. The Netherlands	Frédéric GOHIER MOLTECH-Aniou UMR CNRS 6200
	France
11:20 - 11:40 Oral 38A Effects of biofouling on	11:20 - 11:40 Oral 37B Patterned photo-crosslinking of
performance, as measured during a series of ship trials	thermo-responsive hydrogels for dynamic surface
conducted on the high-speed, jet-powered catamaran.	structures
USNS Choctaw County (EPF 2)	Sander KOMMEREN, Eindhoven University of Technology.
Dominic CUSANELLI, Naval Surface Warfare Center, USA	The Netherlands
11:40 - 12:00 Oral 39A Propeller roughness condition	11:40 - 12:00 Oral 38B Progress in Phillips Runwell UV-
and its impact on vessel fuel efficiency – A case study on	based antifouling technology
US Navy CG- and DDG-class vessels	Bart SALTERS, Philips Research, Findhoven, The
Elizabeth HASLBECK, Naval Surface Warfare Center, USA	Netherlands
12:00 - 12:20 Oral 40A Influence of hydrodynamic stress	12:00 - 12:20 Oral 39B Development of an inexpensive
on frictional drag and fouling community structure	nontoxic biomimetic composite antifouling coating
J. Travis HUNSUCKER, Florida Institute of Technology &	R. Shane Addleman. Pacific Northwest National
SHIPWRIGHT LLC, USA	Laboratory, USA
12:30 - 14:00	

Lunch (not provided)

THURSDAY June 23, 2016	
Room Colbert: Impact & Applications of marine fouling	Room Bonaparte: Novel environmentally friendly
and corrosion research and technologies	antifoulants
Chair: Pr. Michael SCHULTZ	Chairs: Pr. Peter PROKSCH and Dr. Johan SVENSON
14:10 - 14:30 Oral 41A Design of pressure drop section to	14:00 - 14:30 Keynote 7B Evaluation of novel natural and
measure frictional drag of fouling control surfaces	synthetic antifoulants derived from Arctic terrestrial and
Serkan TURKMEN, School of Marine Science and	marine sources
Technology, Newcastle University, UK	Dr. Johan Svenson, SP Technical Research Institute.
	Sweden
14:30 - 14:50 Oral 42A Validation of computational	14:30 - 14:50 Oral 40B From marine natural products
model for predicting frictional resistance by using typical	(MNPs) to synthetic leads: A new wave of green
profile data for fouled surfaces	antifouling solutions?
Bercelay NIEBLES ATENCIO. Chalmers University of	Sofvane Andiouri, MAPIEM, France
Technology OCAS NV. Sweden/Belgium	
14.50 - 15.10 Oral 43A A new approach to predicting the	14.50 - 15.10 Oral 41B Bursting the jodine vapor bubble:
impact of fouling control coatings on ship efficiency	iodine infused aeration for biofouling prevention
Barry King International Paint Ltd LIK	Natasha C. DICKENSON, Naval Undersea Warfare Center
	Division Newport 11SA
15:10 - 15:30 Oral 44A A practical approach for	15:10 - 15:30 Oral 42B A new material with low surface
nredicting fouling impact on shin resistance	anergy yielded by reaction of pentide and stainless steel
Vigit Kemal DEMIRE University of Strathclyde UK	Pan CAO, Wuhan University of Technology, China
Tight Kennal Deminter, Oniversity of Stratheryde, OK	ran CAO, wunan oniversity of rechnology, china
15:30	- 16:00
Coffee	break
Room Colbert: Adhesion, signaling & biofilm formation	Room Bonaparte: Novel environmentally friendly
Chair: Dr. Ana Otero	antifoulants
	Chairs: Pr. Peter PROKSCH and Dr. Johan SVENSON
16:00 - 16:30 Keynote 6A Quorum sensing, biofilms and	16:10 - 16:30 Oral 43B Impact of a hemibastadin
biofouling: A complex relationship	derivative on microfouling settlement
Dr. Ana OTERO, Universidade de Santiago de Compostela,	Tiffany LE NORCY, Laboratoire de biotechnologie et chimie
Spain	marines (LBCM), France
16:30 - 16:50 Oral 45A Inhibition of violacein production	16:30 - 16:50 Oral 44B Progress in antifouling
in marine bacteria Pseudoalteromonas ulvae TC14 by	compounds from marine-derived fungi
quorum sensing inhibitors	Shu-Hua Qı, South China Sea Institute of Oceanology,
Mireille Aye, MAPIEM, France	China
16:50 - 17:10 Oral 46A Adsorption of alginate and	16:50 - 17:10 Oral 45B Strategic advantages of
albumin affects colonization behaviors of bacteria and	functionalized POSS derivatives applied to anti-fouling
diatoms in artificial seawater	concepts
Xiaoyan HE, Ningbo Institute of Materials Technology and	Monika PILZ, SINTEF Materials and Chemistry, Norway
Engineering, China	
17:10 - 17:30 Oral 47A A sticky situation: understanding	17:10 - 17:30 Oral 46B Photocatalytic zinc oxide
the mechanism of diatom adhesion	nanocoatings: a green alternative to biocidal antifouling
Nicole POULSEN, B CUBE/ TU Dresden, Germany	coatings
	Priyanka SATHE, Sultan Qaboos University, Oman
17:30 - 17:50 Oral 48A Analysis of marine adhesives of	17:30 - 17:50 Oral 47B Antifouling strategy compounds
diatoms with X-Ray nanoprobe fluorescence	from Red Sea organisms
Susan STUHR, Ruhr-Universität Bochum, Germany	Julie PETITBOIS, Hokkaido University, Japan
17:50 - 18:10 Oral 49A The effect of surface chemistry on	17:50 - 18:10 Oral 48B Low voltage UV-light emitting
diatom movement and aggregation	miniature LEDs for marine biofouling control: laboratory
John FINLAY, Newcastle University, UK	and field testing
	Richard PIOLA, Defence Science and Technology Group.
	Australia
18:10 - 18:30 Oral 50A Evaluation of quorum quenching	18:10 - 18:30 Oral 49B Seaweed assisted synthesis of
and anti-biofilm activity in temperature resistant marine	Ag/Ti, Ag/Zn and Ti/Zn NPs and their potent antifouling
bacteria isolated from marine macroalgae	property
Andrea Muras, Universidade de Santiago de Compostela	Sri Ramkumar VIJAYAN. Bharathidasan University. India
Spain	
- I	

FRIDAY June 24, 2016	
8:30 - 9:10 Plenary le	ture 5 - Room Colbert
Assessing the ship hull fouling penalty – Co	Irrent knowledge & Outstanding questions
Pr. Michael SCHULTZ. U.	S. Naval Academy. USA
Room Colbert: Biosecurity, risk management &	Room Bonaparte: Marine corrosion: Materials &
Prediction in marine protection	Coatings
Chairse Dr. Achley Courts and John Lowis	Chaires Dr. Mikhail L. Zusupreviewand Dr. Francois Vaviar
Chairs: Dr. Ashiey Courts and John Lewis	Chairs: Pr. Mikhail L. ZHELUDKEVICH and Pr. François Xavier
	PERRIN
9:20 - 9:50 Keynote 7A The importance of adopting	9:20 - 9:50 Keynote 8B Active protective multi-functional
pragmatic vessel biofouling management measures for	coatings on basis of "smart" nanocontainers
mitigating the dispersal of aquatic invasive species – An	Pr. Mikhail L. ZHELUDKEVICH, Helmholtz-Zentrum
Australian perspective	Geesthacht, Germany
Dr. Ashley Coutts, Biofouling Solutions Pty Ltd, Australia	
9:50 - 10:10 Oral 51A Minimising marine biosecurity risks	9:50 - 10:10 Oral 50B Corrosion study of copper-based
of vessels' biofouling in Australia	antifouling coatings on 5083 aluminum
Sonia GORGULA Australian Government Department of	Geoffrey Swaw Elorida Institute of Technology USA
Agriculture and Water Pocources, Australia	Geomey Swain, Honda institute of Technology, OSA
Agriculture ditu Water Resources, Australia	10:10 10:20 Oral 51D A communication between the
10:10 - 10:30 Oral 52A Biotouling management: flash	10:10 - 10:30 Oral 518 A comparison between corrosion
info de Nouvelle-Zélande!	protection properties of polyaniline nanofibers and
Eugène GEORGIADES, Ministry for Primary Industries, New	polyaniline nanotubes prepared via self-organization
Zealand	François-Xavier Perrin, MAPIEM, France
10:30	-11:00
Coffee	break
11:00 - 11:20 Oral 53A Ship biofouling management to	11:00 - 11:20 Oral 52B Implementation of advanced
minimise species translocation: what works best?	technologies for application of protective coatings in
John A. Lewis, IMarEST, Australia	Russian shipbuilding
	Olga FEDOROVA, JSC Shipbuilding & Shiprepair Technology
	Center (ISC SSTC) Russia
11.20 - 11.40 Oral 54A Testing for effective prevention	11:20 - 11:40 Oral 53B Electrochemical studies and
and removal of hisfouling from shins - Lossons learnt	numerical modelling of laser alloyed AI Sp Ti coating in
from testing of bellest unster more something the	numerical modeling of laser anoyed Al-Sh-Ti coating in
from testing of ballast water management and the	saline environment
fouling removal chain	Olawale FATOBA, Ishwane University of technology,
Cato C. TEN HALLERS-TJABBES, MEA-nl, The Netherlands	Pretoria, South Africa
11:40 - 12:00 Oral 55A A mathematical model to predict	11:40 - 12:00 Oral 54B Electrochemical assessment of
wild life population affected by chemicals released from	ammonium benzoate as corrosion inhibitor of mild steel
AF/AC paint	in 0.5M HCl solution: Solanum tuberosum extract as
Kivoshi Shibata, Chiba Institute of Technology, Japan	· · · · · · · · · · · · · · · · · · ·
	surfactant
	Surfactant
	Surfactant Olaitan Akanji, Tshwane University of Technology, Pretoria, South Africa
	Surfactant Olaitan Akanji, Tshwane University of Technology, Pretoria, South Africa
12:00 - 12:20 Oral 56A How conservative is the	Surfactant Olaitan Akanji, Tshwane University of Technology, Pretoria, South Africa
12:00 - 12:20 Oral 56A How conservative is the regulatory human health risk assessment? Comparisons	surfactant Olaitan Акалл, Tshwane University of Technology, Pretoria, South Africa
12:00 - 12:20 Oral 56A How conservative is the regulatory human health risk assessment? Comparisons between calculated and analytical data using Selektope [®]	Surfactant Olaitan Akanji, Tshwane University of Technology, Pretoria, South Africa
12:00 - 12:20 Oral 56A How conservative is the regulatory human health risk assessment? Comparisons between calculated and analytical data using Selektope [®] as an example	Surfactant Olaitan Akanji, Tshwane University of Technology, Pretoria, South Africa
12:00 - 12:20 Oral 56A How conservative is the regulatory human health risk assessment? Comparisons between calculated and analytical data using Selektope [®] as an example Lena LINDBLAD, I-Tech AB, Sweden	Surfactant Olaitan AKANJI, Tshwane University of Technology, Pretoria, South Africa
12:00 - 12:20 Oral 56A How conservative is the regulatory human health risk assessment? Comparisons between calculated and analytical data using Selektope [®] as an example Lena LINDBLAD, I-Tech AB, Sweden	Surfactant Olaitan Akanji, Tshwane University of Technology, Pretoria, South Africa
12:00 - 12:20 Oral 56A How conservative is the regulatory human health risk assessment? Comparisons between calculated and analytical data using Selektope® as an example Lena LINDBLAD, I-Tech AB, Sweden 12	Surfactant Olaitan AKANJI, Tshwane University of Technology, Pretoria, South Africa
12:00 - 12:20 Oral 56A How conservative is the regulatory human health risk assessment? Comparisons between calculated and analytical data using Selektope® as an example Lena LINDBLAD, I-Tech AB, Sweden 12 Closing	Surfactant Olaitan AKANJI, Tshwane University of Technology, Pretoria, South Africa :30 remarks
12:00 - 12:20 Oral 56A How conservative is the regulatory human health risk assessment? Comparisons between calculated and analytical data using Selektope [®] as an example Lena LINDBLAD, I-Tech AB, Sweden 12 Closing Announcing Oral a	Surfactant Olaitan AKANJI, Tshwane University of Technology, Pretoria, South Africa 30 remarks and Poster winners
12:00 - 12:20 Oral 56A How conservative is the regulatory human health risk assessment? Comparisons between calculated and analytical data using Selektope [®] as an example Lena LINDBLAD, I-Tech AB, Sweden 12 Closing Announcing Oral a Poster reg	Surfactant Olaitan AKANJI, Tshwane University of Technology, Pretoria, South Africa 30 remarks and Poster winners noval time

Program of the poster night: TUESDAY June 22, 2016	
18:00 - 20:30 Post	er night & Cocktail
"Palais Nept	une", Level 1
PT S1-1 Lanthanum and Yttrium rare earth based	PT S4-3 Ship biofouling: what are the biosecurity risks?
conversion to improve the 6061 & 2024 aluminum alloys	John A. Lewis, IMarEST, Australia
protection.	
Bekhiti DJILLALI, Military Polytechnic School, Algeria	
PT S1-2 Advanced ceramic coatings to prevent corrosion	PT S5-1 An impact of nautical tourism on copper
and fouling in offshore components	concentrations in the Krka River estuary (Croatia)
David Vélez, IK4-CIDETEC, Spain	Cédric GARNIER, Université de Toulon, PROTEE, France
PI S1-3 Application of the conducting polymers in the	PI S5-2 Zinc governs the release rate of copper in a
marine anticorrosion paints	generic antifouling paint
Ancene Sakhri, DRD/Algerian Navy- Algeria	J. Fredrik Lindgren, SP Technical Research Institute of Sweden, Sweden
PT S1-4 Study on the performance of different type	PT S6-1 Role of hydrodynamic condition on biofilm
epoxy resin coatings under hydrostatic pressure seawater	formation of Bacillus sp. in a rotating disk system
environment	Leila ABDOLI, Ningbo Institute of Materials Technology and
Bin LIU, Naval Academy of Armament, P.R.China	Engineering, China
PT S1-5 Coatings for corrosion protection of Mg alloys	PT S6-2 Deep sea biofouling - state of the art and where
Aurélie Dupuis, MAPIEM, France	are we going?
	Nikoleta BELLOU, Hellenic Centre for Marine Research,
	Institute of Oceanography, Greece
PT S2-1 Dynamics of carbon steel corrosion in an	PT S6-3 Impacts of a multi-contamination gradient in a
estuarine Amazonian environment (MIC)	North-Western Mediterranean bay (Toulon Bay, France)
Paule SALVIN, L3MA UMR ECOFOG Université des Antilles,	on biofilm microbial communities analyzed by flow
France	cytometry
	Clement Coclet, MAPIEM/PROTEE, France
P1 52-2 Influence of Desultovibrio sulphate reducing-	P1 56-4 LC-IVIS based metabolic profiling of marine
bacteria in the corrosion of mild steel coated with self-	bacterial strains demonstrates variation between free-
loão TEDIM Smallmatek - Small Materials and	
Technologies Portugal	
PT S2-3 Electrochemical aspects of stainless steels	PT S6-5 The effects of long-term grooming on the
corrosion in seawater	diatom community structure and biofilm adhesion to ship
Valery KARPOV. Institute of Ecology and Evolution. Russia	hull coatings
, , , , , , , , , , , , , , , , , , , ,	Kelli HUNSUCKER, Florida Institute of Technology, USA
PT S3-1 Use and misuse of anodic protection in ballast	PT S6-6 Antibacterial activity of green algal extracts
tanks	against fouling bacteria isolated from bay of Carthage
Kris De Baere, Antwerp Maritime Academy, Belgium	(northern coast of Tunisia)
	Leila KTARI, INSTM, National Institute of Marine Sciences
	and Technologies Tunisia
PT S3-2 SRB induced accelerated stress corrosion	PT S6-7 A robust quorum quenching enzyme for
cracking under cathodic protection potential	antifouling applications
Jizhou DUAN, Institute of Oceanology, Chinese Academy of	Laure PLENER, Gene&GreenTK, France
Sciences, China	
PT S4-1 Marine Fouling Species from the Brazilian	PT S6-8 Biofouling, deposition and corrosion in cooling
Coast" database: a web-based system for marine	water cycles using brackish seawater
biosecurity management	Paulina RAJALA, VTT Technical Research Centre of Finland,
Ricardo COUTINHO, IEAPMI- Instituto de Pesquisas do Mar	Finiand
Almirante Paulo Moreira, Brazil	
PI 54-2 At the border: assessing vessel biotouling risks	
in an operational context	P1 56-9 Dynamic biofilm growth and collection using a
in an operational context	P1 56-9 Dynamic biofilm growth and collection using a strut arrangement on a catamaran vessel
in an operational context Daniel KLUZA, Ministry for Primary Industries, New Zealand	Science and Technology JK

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PT S7-1 Extracellular polymeric substances from a	PT S8-6 Preparing samples of antifouling systems for
marine biofilm-forming strain Pseudoalteromonas	successful testing in the marine environment
ulvae TC14: characterization of exopolysaccharides and	Abraham STEPHENS, Florida Institute of Technology
antifouling activities	
Roberto ABBAMONDI, MAPIEM, France	
PT S7-2 Inhibition of bacterial quorum sensing by	PT S8-7 The seasonal variation of offshore macrofaunal
macroalgae: importance of associated microbial	fouling assemblages in the South China Sea
communities	Min TANG, Hainan University, China
Sergey DOBRETSOV, Sultan Qaboos University, Oman	
PT S7-3 Application of green fluorescent protein as a	PT S8-8 The primary study on the characteristics of
viable marker in a pioneer marine species.	biofouling community in the nearshore aquaculture in the
Pseudoalteromonas sp. D41 for adhesion and biofilm	South China Sea
dynamics analysis	Chaochao Wang Hainan University China
Catherine DREANNO IEREMER RDT/LDCM France	
PT S7-4 Hanging on by a thread: the ecomechanics of	PT S8-9 Varving mussel settlement responses to marine
mussel hysels glue	hiofilms on polyurethane enoxy resin and PDMS
Matthew GEORGE University of Washington USA	lin-Long Vanc, Shanghai Ocean University, China
DT S7-5 Investigation of different marine bacterial	DT S8-10 Automatic classification of the settlement
strains behaviors in biofilm	hoboviour of Barnaclo cupride
Richard Guilloneau MARIEM Eranco	Abmad Alsaap Nowcastle University LIK
DT 57.6 Piofilm formation and a di GMD signaling in	PT S0 1 Development of standard and nevel laboratory
marino hactoria	methods to evoluate anti-macrofouling officacy
	Rehart Runst Institut Osáanagraphique Raul Ricard
IVIDITAL HARB, IVIAPIEIVI, FRANCE	Robert Boner, institut Oceanographique Paul Ricaru,
DT C7 7 Querum Consinell sustem showertowirstion of	PT SO 2 Accessing the performance of low toxic cost
PTS7-7 Quorum Sensing system characterization of	P1 59-2 Assessing the performance of low toxic cost
Snewanella woodyl and its role in biofilm formation	efficient and environment friendly antifouling materials
Manmoud HAYEK, MAPIEM, FRANCE	Severine LARROZE, Aquabio Lech Group, Malta
PT S7-8 Marine Roseobacters' lifestyles in biofilms	P1 59-3 Warine biotouling on that panels with graded
forming conditions	concentration of biocides
Raphael LAMI, Laboratoire de Biodiversite et	Hans ELWING, University of Gothenburg, Sweden
Biotechnologies Microbiennes, France	
PTS7-9 Implication of extracellular components of	PT S9-4 A TLC-agar method as an alternative to liquid-
Shewanella frigidimarina NCIMB400 membrane on	culture method for the evaluation of algaecidal activity
adhesion and biofilm formation	Isabel FREIRE FONTANS, University of Santiago de
Aurore PUYMEGE, MAPIEM, FRANCE	Compostela, Spain
PT S8-1 Study of gene expression along the settlement	PT S9-5 Increased settlement rates of field-caught
process of barnacle Balanus improvisus	barnacle larvae in settlement assays adding
Anna ABRAMOVA, University of Gothenburg, Sweden	metamorphosed juveniles
	Kristina GALL, LimnoMar, Germany
PT 58-2 Fouling in finfish aquaculture: a case study from	PT S9-6 Early detection of bacterial biofilms in seawater
Adriatic Sea	lines: a powerful tool for preventing problems
Alessandra Bellucci, Università Politecnica delle Marche,	Francesca GARAVENTA, Institute of Marine Sciences (CNR-
Italy	ISMAR), Italy
PT S8-3 A multivariate analysis of the attachment of	PT S9-7 The Mediterranean sea urchin Paracentrotous
biofouling organisms in response to surface properties	lividus: an effective embryotoxicity model
Eric R. HOLM, Naval Surface Warfare Center, USA.	Eldad Gutner-Hoch, Tel Aviv University, Israel
PT S8-4 Investigating the Amphibalanus improvisus	PT S9-8 Characterisation of marine biofilms grown
octopamine receptor – comparison between receptor	under different hydrodynamic regimes and their impact in
binding, efficacy and physiological output	ship operational efficiency
Lena LINDBLAD, I-Tech AB, Sweden	Jack HAYDEN, International Paint Ltd, UK
PT S8-5 Coastal marine fouling monitoring: validation of	PT S9-9 A flow-through method of laboratory testing for
an innovative field exposure system and comparison	the efficacy of antifouling paints using three types of
between covering assessment methods	fouling organisms: barnacle, mussel and green algae
Veronica PIAZZA, ISMAR CNR, Italy	Ichiro Katsuyama, Japan NUS Co., Ltd., Japan

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PT S9-10 Development of bacteria and microalgae	PT S10-3 Advanced coatings for offshore renewable
biofilm in photobioreactor to evaluate antifouling	energy
surfaces	Hans ELWING, University of Gothenburg, Sweden
Tiffany LE NORCY, Laboratoire de biotechnologie et chimie	
marines (LBCM), France	
PT S9-11 Effect of cuprous oxide particules on the	PT S10-4 Using three dimensional printing to investigate
roughness boundary layer and drag characteristics of	the hydrodynamic effect of biofouling (Chirona Hameri) in
marine antifouling coatings	relation to tidal energy
Chang Lı, Newcastle University, UK	Rebecca FRANCIS, Plymouth University, UK
PT S9-12 Combatting fouling on fish cages in three seas:	PT S10-5 Settlement of an alien mollusc in a
towards protocol for long term static immersion tests	Mediterranean industrial plant: strategy for the
Rachel MAILICK, Tel Aviv University, Israel	optimization and management of antifouling treatments
	Francesca GARAVENTA, Institute of Marine Sciences (CNR-
	ISMAR), Italy
PT S9-13 Development of a test platform for anti-fouling	PT S10-6 In-service performance evaluation of low
coatings	frictional AF marine coating based on ISO/DIS19030
Raf MESKENS, Antwerp Maritime Academy, Belgium	Inwon LEE, GCRC-SOP, Pusan National University, South
	Korea
PT S9-14 Optimization of the screening method for anti-	PT S10-7 Review and assessment of mechanical
biofouling compounds using the xCELLigence [®] system	methods for underwater cleaning of marine structures
Andrea MURAS, Universidade de Santiago de Compostela,	Tom Marquardt, Muehlhan AG, Germany
Spain	
PT S9-15 Matching forces applied in underwater hull	PT S10-8 Similarity transform method to predict full
cleaning with adhesion strength of marine organisms	scale ship performance based on various lab skin friction
Dinis OLIVEIRA, Chalmers University of Technology, Sweden	tests
	Hyun PARK, GCRC-SOP, Pusan National University, South
	Korea
PT S9-16 Adhesive properties of three marine bacteria	PT S10-9 Additive manufacturing for the control of
towards FRC-SPC hybrid antifouling coatings	biofouling in problematic vessel niche areas
Aurore Puymege, MAPIEM, France	Richard PIOLA, Defence Science and Technology Group,
	Australia
PT S9-17 3D printing of biofouling organisms for	PT S10-10 Assessment of fouling release coating
hydrodynamic testing sessions	degradation caused by grooming
Scott STORMS, Naval Surface Warfare Center, USA	Melissa TRIBOU, Florida Institute of Technology, USA
PT S9-18 Targeted in-field macro-fouling tests in	PT S10-11 Investigation of the biofouling and corrosion
Singapore	performance of thermal spray coatings subjected to static
Wensley Louis WIDJAJA, AkzoNobel, International Paint	immersion in Australian marine site
Singapore Pte Ltd, Singapore	Scott A. WADE, Swinburne University of Technology,
	Australia
PT S9-19 The use of a simple x-ray fluorescence method	PT S10-12 Identification of variables that are significant to
(XRF) for quantification of Cu, Zn and Sn (TBT) content in	the rate of change in a ship's powering penalty
marine coatings	J. Travis Hunsucker, Shipwright, LLC, USA
Erik YTREBERG, Chalmers University of Technology, Sweden	
PT S10-1 The impact of microbial biofouling on marine	PT S11-1 Antifouling properties of nature-inspired
resource extraction: a case study involving uranium	synthetic compounds
adsorbents	Joana ALMEIDA, CIIMAR/CIMAR - University of Porto,
George BONHEYO, Pacific Northwest National Laboratory,	Portugal
USA	
PT S10-2 The impact of fouling control coating selection	PT S11-2 Natural antifouling compounds: promising
on hull roughness: an updated review	non-biocidal alternatives from cyanobacteria
Haoliang CHEN, International Paint Singapore Pte Ltd,	Joana ALMEIDA, CIIMAR/CIMAR - University of Porto,
Singapore	Portugal

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PT S11-3 Cardiac glycosides and aglycones as potential	PT S12-2 New antifouling coating containing polymeric
green antifoulants	biocide polyhexamethylene guanidine molydbate
Danqing FENG, Xiamen University, China	Olena MOSHYNETS, Institute of Molecular Biology and
	Genetics of NAS, Ukraine
PT S11-4 Algae against algae: microalgae as source of	PT S12-3 Diffusion of biocides in polymeric matrices: a
novel antifouling compounds	tool for rational coating design
Isabel FREIRE FONTANS, University of Santiago de	Alexander PAPIEZ, Northumbria University, UK
Compostela, Spain	
PT S11-5 Antifouling properties of the brown alga Taonia	PT S12-4 Grafting antifoulant groups into silicone based
atomaria (Woodward) J. Agardh from Tunisian coasts:	polyurethane: combination of antifouling and fouling
field experiments	release properties
Leila KTARI, INSTM, National Institute of Marine Sciences	Qingyi XIE, South China University of Technology, China
and Technologies, Tunisia	
PT S11-6 Evaluation of bioactive properties of Cystoseira	PT S12-5 Contrasting biofouling in steam condenser:
foeniculacea L. (Grev. Emend. Sauvageau) and	MATChING Approach
Halocnemum strobilaceum (Pall.) Bieb 1819 extracts from	Rob ONDERWATER, Materia Nova ASBL, Belgium
Trapani saltworks (NW Sicily): antioxidant and	
antimicrofouling	
Concetta Maria MESSINA, University of Palermo, Italy	
PT S11-7 Exploiting the chemodiversity of tropical	PT S13-1 Self-structuring surfaces with
microalgae for the discovery of natural antifoulants	polydimethylsiloxane-thiole-acrylate coatings
through the BIOPAINTROP project	Andreas BRINKMANN, Fraunhofer Institute for
Damien Reveillon, MAPIENI, France	Manufacturing Technology and Advanced Materials,
DT C11.0. Antifauling notantials of maxima magnalage	DT 612.2 A new consistive cells reliable contine
PT 511-8 Antifouling potentials of marine macroalgae	PT 513-2 A new sensitive seit-polisning coating
Use SANGUEZ LOZANO Institute politácnico Nacional	CIEITIEITI DEZANET, MAPIEINI, FTAIICE
CICIMAR-IRN Mexico	
DT S11-9 Bridging the gans over a sea of hiofouling - SP	PT \$13-3 Tethered liquid surfaces as high performance
Technical Research Institute of Sweden aims to facilitate	anti-fouling coatings
the antifouling innovation process for research groups	Deniz DOGAN University of Paderborn, Germany
Johan Svenson, SP Technical Research Institute, Sweden	Deniz Deenik, oniversity of Fuderborn, dermany
PT S11-10 Synthesis of α_{α} -disubstituted amino acid	PT \$13-4 Development of novel test platform for
isocvanide derivatives and antifouling activity: structure-	textured antifouling surfaces
activity relationship studies	Alan BARRETT, Dublin City University, Ireland
Shuhei Takashima, Tokyo University of Agriculture and	, , ,
Technology, Japan	
PT S11-11 Seaweed mediated synthesis of Ag/Ti, Ag/Zn	PT S13-5 Liquid adhesion test bench with reclining ramp
and Ti/Zn nanoparticles: potent antifouling property	Valentin GATE, SILSEF, France
Vijayan Sri RAMKUMAR, Bharathidasan University, India	
PT S11-12 Tropical microalgae isolated on Reunion island	PT S13-6 Phase separation mechanisms in
(France, Indian Ocean) as sources of antifouling	polydimethylsiloxane copolymer containing UV-curable
molecules: the BIOPAINTROP project	polyurethane coatings
Jean-François Briand, MAPIEM, France	Simon RUTHMANN, University of Paderborn, Germany
PT S12-1 Synthesis and antifouling properties of non-	PT S13-7 The use of the sea anemone Aiptasiomorpha
metal acrylic boron polymers for marine antifouling	minuta as a possible agent to control biofouling on
application	oysters during culture
Yakun Lı, Harbin Engineering University, China	Cyril Glenn Perez SATUITO, Nagasaki University, Japan