



Preventing the transfer of Invasive Aquatic Species via ships' biofouling

Fouling Focus 8-12TH JULY 2024

PROGRAMME AGENDA

July 8TH - 9TH

TRAINING COURSE ON BIOFOULING RISK ASSESSMENT AND INSPECTION METHODOLOGIES

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July 10TH



TECHNOLOGY DEMONSTRATION IN-WATER CLEANING

July 11[™] - 12[™]

BIOFOULING MANAGEMENT WORKSHOP FOR LATIN AMERICA AND CARIBBEAN WOMEN IN MARITIME

Monday 8th - 9th July

TRAINNING COURSE ON BIOFOULING RISK ASSESSMENT AND INSPECTION METHODOLOGIES

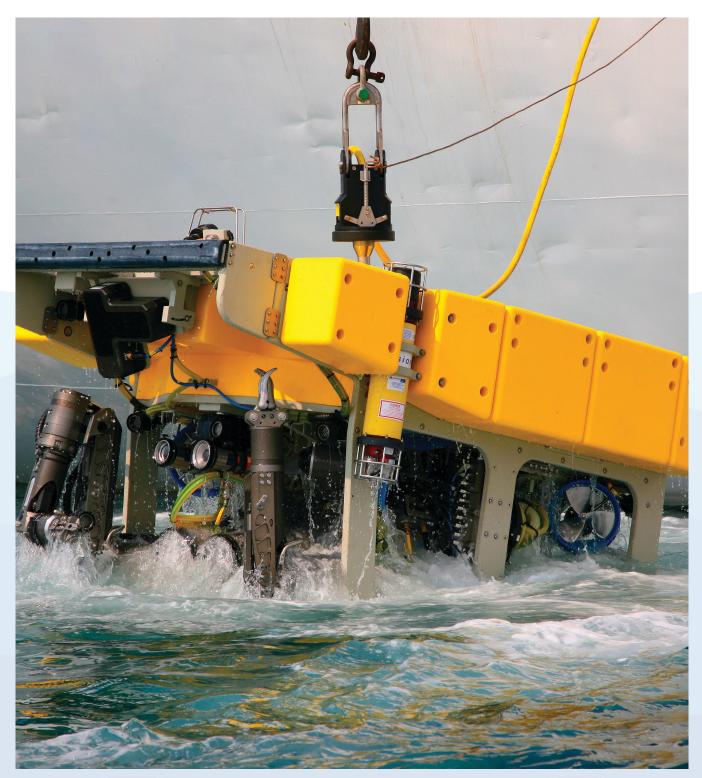


Photo (technology)



DAY 1 Monday 8th July

08:30 - 9:00 **REGISTRATION**

09:00 - 9:30 **OPENING AND WELCOME REMARKS**

- Lilia Khodjet El Khil
 Project Technical Manager, GloFouling Partnerships project, IMO
- MTCC Latin America
 Chief Ervin Vargas. Director
- MTCC Caribbean Mrs. Vivian Rambarath-Parasram, Director and Head
- Universidad Maritima Internacional de Panamá
- The Panama Maritime Authority and/or Ministry of Maritime Affairs

09:30 - 09:45 INTRODUCTION TO THE COURSE PROGRAMME AND OBJECTIVES OF THE TRAINING COURSE

09:45 - 10:40 **TRAINING COURSE MODULE 1 Introduction (part 1)**

Understanding and addressing the spread of Invasive Aquatic Species (IAS).

Presenter:

Mr. Ashley Coutts

Director, Biofouling Solutions Pty. Ltd



COFFEE BREAK AND GROUP PHOTO

11:00 - 11:30 **TRAINING COURSE MODULE 1 Introduction (part 2)**

Effective Biofouling Management Strategies and International Guidelines

Presenter:

Ms. Lina Ceballos California State

11:30 - 12:30 TRAINING COURSE MODULE 2 In-Water Inspections

Types and Purposes of In-Water Inspections (part 1) Methods for Undertaking In-Water Inspections (part 2)

Presenter:

Mr. Ashley Coutts

Director, Biofouling Solutions Pty. Ltd



Gregory Ruiz

Principal Investigator and Senior Scientist, Smithsonian Environmental Research Centre (SERC)

15:00 - 15:15

🕒 COFFEE BREAK

15:15 - 16:30 **TRAINING COURSE MODULE 4 Effective planning and execution of** in-water inspections

Presenter:

Mr. Ashley Coutts Director, Biofouling Solutions Pty. Ltd

16:30 - 16:40

SUMMARY AND CONCLUSION

CLOSE Day 1

DAY 2 Tuesday 9th July

09:00 - 9:10 RECAP OF DAY 1 AND INTRODUCTION OF DAY 2

09:10 - 10:40 TRAINING COURSE MODULE 5

Conducting In-Water Inspections: Best Practices and Challenges

Presenter:

Mr. Ashley Coutts Director, Biofouling Solutions Pty. Ltd

10:40 - 11:00

COFFEE BREAK

11:00 - 11:30**TRAINING COURSE MODULE 5**
Conducting In-Water Inspections: Best Practices and Challenges (cont.)

Presenter:

Mr. Ashley Coutts, Director Biofouling Solutions Pty. Ltd

11:30 - 13:00 **TRAINING COURSE MODULE 6** In-water Inspection Reporting Requirements

Presenters:

Mr. Ashley Coutts, Director Biofouling Solutions Pty. Ltd

13:00 - 14:00



14:00 - 14:30 **EVALUATION AND FEEDBACK OF THE COURSE**

14:30 - 14:45 CLOSURE OF THE COURSE AND CLOSING REMARKS

Speaker:

Lilia Khodjet El Khil

Project Technical Manager, GloFouling Partnerships project, IMO

15:00 - 18:00 SITE VISIT CASCO VIEJO, OLD PANAMA CITY



DAY 3 Wednesday 10th July

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- 08:30 9:30 ASSEMBLY AT UMIP FOR REGISTRATION AND TRANSPORTATION TO DEMONSTRATION SITE
- 09:30 10:00 BRIEFING SESSION TO ALL PARTICIPANTS
- 10:00 10:15 TRANSIT TO DEMONSTRATION SITE

Demonstration site visit **PORT OF BALBOA** WEDNESDAY 10 JULY 2024, 10:00AM



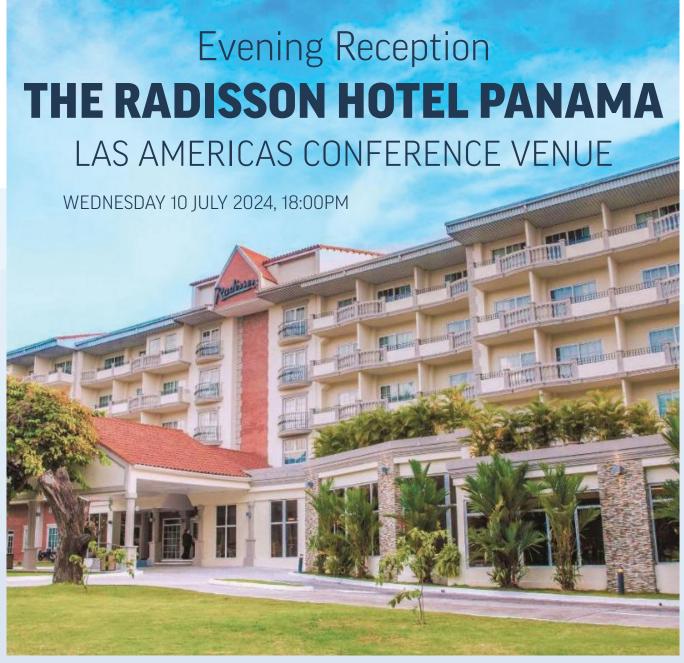
(for information refer to Aide Memoir)





17:00 - 17:30 **RETURN TO RADISSON HOTEL**

18:00 **EVENING RECEPTION**



(for information refer to Aide Memoir)



PROGRAMME

LATIN AMERICA AND CARIBBEAN WOMEN IN MARITIME - BIOFOULING MANAGEMENT WORKSHOP

(LACWIM-BMW)

11-12 JULY 2024

INTERNATIONAL MARITIME UNIVERSITY OF PANAMA (UMIP), PANAMA CITY, PANAMA



(for information refer to Aide Memoir)

GloFouling PARTNERSHIPS Preventing the transfer of Investive Aquatic Species via abpar biofooling

WORKSHOP Day 01

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08:30 - 9:00 **REGISTRATION & COFFEE**

09:00 - 9:20 **OPENING SESSION**

Master of ceremony Angelica Borja Corporación Universitaria Reformada

Special message

Secretary General of International Maritime Organization (recorded video)

Welcome address - Keynote speaker Maritime Authority Panama

Eng. Essam M Alammari

Deputy for Maritime Transport, Transport General Authority, Kingdom of Saudi Arabia

Lilia Khodjet El Khil

Project Technical Manager, GloFouling Partnerships project, Sub-Division for Partnerships and Projects, International Maritime Organization (IMO)

09:20 - 9:30 SPECIAL PRESENTATION

Estela Luck, Deputy Chief Sustainability Officer

Panama Canal Authority

09:30 - 9:35 **GROUP-PHOTO**

09:40 - 10:20 PRESENTATION THE IMO AND GENDER EQUALITY

An introduction to the International Maritime Organization (IMO) work on gender equality.

Women in the maritime industry are being historically underrepresented however the IMO has taken a strategic approach to help ocean's stakeholders to achieve gender equality and empower all women and girls. The presentations will explain what IMO is doing to address the gender gap and how IMO's Technical Cooperation and Implementation Division includes gender in its activities to engage and empower more women.

Facilitator: Angelica Borja

Presenters:

Mariana Noceti

Principal Programme Assistant for the Women in Maritime Programme, Technical Cooperation and Implementation Division, IMO

- Nicole Wickham President, WiMAC Jamaica Chapter
- Tosca Pinas Chair, WiMAC Suriname Chapter
- Katherine Caro Canales Head, Maritime Interests Department, Chilean Navy and MaMLA representative
- Karine Langlois Social Media and Communications Officer, Outreach and Communication Office, IMO
- Lilia Khodjet El Khil
 Project Technical Manager, GloFouling Partnerships project, IMO



10:20 - 10:30 PRESENTATION GEF-UNDP-IMO GLOFOULING PARTNERSHIPS AND IMO-NORAD TEST BIOFOULING PROJECTS

An overview of the projects:

The IMO's strategic approach to biofouling management emphasizes the importance of collaboration, capacity building, and awareness-raising to support developing countries in implementing effective biofouling management in accordance with the IMO Biofouling Guidelines. The project's donors, the Global Environment Facility (GEF) and Norwegian Agency for Development Cooperation (Norad) joined forces to address challenges through legal, policy and institutional reforms, capacity-building and environmentally sound technologies.

Facilitator: Angelica Borja

Presenter: Lilia Khodiet El Khil

Project Technical Manager, GloFouling Partnerships project, IMO

Q & A

10:30 - 11:00 SESSION 1 ENVIRONMENTAL IMPACTS OF SHIPS' BIOFOULING

What is biofouling and how does it contribute to the loss of marine biodiversity and to climate change?

Ships' biofouling is one of the main vectors for the introduction of IAS, which is considered to be one of the greatest threats to the world's marine biodiversity. Biofouling on ships' hull also increases the ships' drag. To maintain speed, ships must burn more fuel, thus increasing greenhouse gas emissions (GHG). This session will highlight the impacts of biofouling and environmental challenges

Facilitator: Ms. Angelica Borja

Presenters:

- Lina Cabellos-Osuna
 Senior Environmental Scientist, California State Lands Commission
- Inti Keith Principal Investigator, Marine Biodiversity Research, Charles Darwin Foundation (Galapagos)

Panelists:

- Ervin Vargas Wilson
 Technical Director, Maritime Technology Cooperation Centre (MTCC) of Latin America
- Sharloth Fernandez

Head of the Environmental Management Department, National Directorate of Aquatic Spaces (DIRNEA), Maritime Authority of Ecuador

Carmen Schoedler Research Manager at Smithsonian Tropical Research Institute (SERC)

Q & A

11:00 - 11:30SESSION 2THE GLOBAL RESPONSE

How does the IMO global policy address biofouling related issues?

More countries are taking steps to tackle biofouling from ships, in line with the IMO's 2023 Guidelines for the Control and Management of Ships' Biofouling to minimize the transfer of Invasive Aquatic Species (IMO Biofouling Guidelines). The objective of this panel is to explain IMO's policy and how it is being implemented by Member States and other stakeholders.

Facilitator: Angelica Borja

Presenter:

Elda Kazara-Belja, Senior Lecturer

Head of Administration, International Maritime Law Institute (IMLI)

Panelists:

- Lilia Khodjet El Khil Project Technical Manager, GloFouling Partnerships project, IMO
- Maria Cecilia Trinidade de Castro
 Oceanographer, Diretoria de Portos e Costas, Brazil
- **Gregory Ruiz** The Coastal Ocean Marine Biosecurity International Network of the Americas (COMBINA)



11:45 - 12:15 SESSION 3 TECHNOLOGY DEVELOPMENT AND INNOVATION

How can technological innovation and development contribute to managing ship's biofouling and control the spread of IAS?

Various antifouling systems, such as coating, painting and surface treatment, biofouling monitoring systems such as inspection, in-water cleaning, Research and Development are among mitigating measures. Panelists will discuss some of these effective approaches.

Facilitator: Angelica Borja

Presentation:

Michael Razack Technical Officer, MTCC Caribbean; and

Sarita Emmanuel Project Officer, MTCC Caribbean

Panelists:

- Abigail Robinson
 Vice President of Sustainability, ECOsubsea AS
- John Dunn Chief Operating Officer, GreenSea IQ
- John Armstrong Managing Director, HullWiper Ltd
- Ashley Coutts Managing Director and Principal Scientist, Biofouling Solutions Pty Ltd.

Q & A



12:15 - 13:30



SESSION 4 INDUSTRY PERSPECTIVES 13:30 - 14:00

Challenges and best practices: What role does the private sector play in promoting biofouling management?

Ships' biofouling is an issue that concerns different stakeholders including the private sector. This session will discuss common challenges and best practices, opportunities, and solutions to reduce the impact of biofouling and find ways to contribute to a sustainable blue economy.

Facilitator: Angelica Borja

Presentation: Simon Doran

Chair, Global Industry Alliance (GIA) for Marine Biosafety

Panelists:

- **Guadalupe Concepcion** CARPAC HUB Manager & AMR Business Compliance Ambassador, MAERSK
- Inter-American Development Bank (tbc)
- **Aneth Pitterson** SHEQ Manager, VT Shipping International

Q & A

SESSION 5 BIOFOULING GENDER ACTION PLAN AND ANALYSIS REPORTS 14:00 - 14:30

An introduction to the Gender Action Plan

IMO's TEST Biofouling project has developed an action plan specifically to address gender disparity in biofouling management sector. The presentation will outline the objectives and highlight ways to help increase gender diversity and inclusion in the maritime industry.

Facilitator: Angelica Borja

Presenters:

- **Sanjam Gupta** Founder, Maritime SheEO
- Tevita Robanakadavu Director, Pacific Centre for Maritime Studies, Fiji National University

Panelists:

- **Reza Ludovic**
 - Technical Advisor, Research, Prospective and Development, Agence Portuaire, Maritime et Fluviale, Madagascar
- **Marija Vranic** Project Coordinator, TEST Biofouling, IMO

Q & A

14:30 - 15:30 **PAVING THE WAY FOR DAY 2 WORKSHOPS**

The objective of this session is to highlight some existing noteworthy initiatives which women from the Latin America and Caribbean countries could benefit from and will serve as reference information ahead of the group discussion workshops of Day 2

Facilitator:

Lilia Khodjet El Khil

Project Technical Manager, GloFouling Partnerships project, IMO

Presentations:

International Maritime University of Panama

How education leads to empowering women and young girls in science

• WISTA

Introduction to the associations and how networking is important for professional development and progression in the industry

- WMU
 E-Learning training courses to support women in maritime
- IMLI

Programmes and initiatives to support female lawyers through sponsorships

 Sanjam Gupta Founder, Maritime SheEO Leadership programme

Q & A

REGISTRATION OF PARTICIPANTS IN WORKSHOP GROUPS ON DAY 2.

CLOSE Day 1

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WORKSHOP Day 2

08:30 - 9:00 **WELCOME COFFEE**

09:00 - 9:15 **OPENING SESSION**

Facilitator:

Lilia Khodjet El Khil, Project Technical Manager, GloFouling Partnerships project, IMO

09:15 - 12:30 EMPOWERING WOMEN LEADERS Strategies for Success

(six break out groups)

Facilitator: Sanjam Gupta

Co-Facilitator: Angelica Borja

9:15 - 10:15 Session 1 BUILD YOUR NETWORK

- Build a collaborative relationship with your manager
- Build a network beyond your team

10:15 - 11:15 Session 2 BUILD YOUR VISIBILITY

- Reframe self promotion
- Promote achievements through anecdotes
- Engage on the internal and external platforms
- Leverage reverse promotion

11:15 - 11:30





11:30 - 12:30 Session 3 MANAGE YOUR PERSONAL BRAND

Four Dimensions of Personal Brand

- Wrapping
- Connect
- Visibility
- Substance

12:30 - 13:30

13:30 - 14:30 Session 4 WOMEN ON BOARD

How to sustain women's contribution in the maritime sector?

The objective of this session is to re-cap the findings of the group sessions, identify gaps and next steps to increase opportunities for women in biofouling management.

Facilitator:

Sanjam Gupta Sanjam Gupta, Maritime SheEO

Open discussion

SUMMARY AND CONCLUSION

14:30 - 14:45 CLOSING OF THE WORKSHOP

Closing remarks

Víctor Luna Barahona President, International Maritime University of Panama

Lilia Khodjet El Khil Project Technical Manager, GloFouling Partnerships project, IMO



15:00 - 18:00 AFTERNOON SITE VISIT PANAMA CANAL

