

**International Robotic Sailing Conference ([IRSC2014](#))
World Robotic Sailing Championship ([WRSC2014](#))
7th – 13th September 2014
National University of Ireland, Galway and Galway Harbour.**

Programme

IRSC2014/WRSC2014 Co-Chairs: Dermot Tynan Hewlett Packard, Galway
Fearghal Morgan National University of Ireland, Galway

WRSC2014/IRSC2014 events summary schedule

Sunday 7th September, 14.00-17.00

Free Public Event: WRSC2014 Expo

Exhibit area: Ground floor Aula Maxima, NUI Galway
 Demonstration of WRSC competitor robotic sailboats

Monday 8th September, 08.30-17.30. IRSC2014 Conference and WRSC2014 Expo (free entry)

Registration: 08.30-09.00 ([registration information](#))
Conference start: 09.00
Venue: Ground floor Aula Maxima, NUI Galway
Exhibit area: First floor Aula Maxima, NUI Galway

Tuesday 9th – Saturday 13th September WRSC2014 Events.

[Event information](#)

Sponsoring Organisations

Hewlett Packard Galway
National University of Ireland, Galway/Ollscoil an hÉireann, Gaillimh
Port of Galway/Calafort na Gaillimhe
Galway Bay Sailing Club
Intel Ireland

IRSC2014 Programme

International Robotic Sailing Conference (IRSC2014) Programme

08.30 **Registration**, Aula Maxima NUI Galway

09.00-09.10 WRSC/IRSC 2014 Welcome and opening, Dermot Tynan, Fearghal Morgan

Presentation Session I: Chair: Fearghal Morgan

09.10-09.35 **An Easy-To-Build, Low-Cost, High-Performance SailBot**

Paul Miller, Andrew Beeler, Beatrice Cayaban, Matthew Dalton, Cassandra Fach, Christian Link, Joel MacArthur, Jericho Urmenita, Robert Yerkes Medina

09.35-10.00 **A Real-Time Sailboat Controller Based on ChibiOS**

Jorge Cabrera-Gómez, Angel Ramos de Miguel, Antonio C. Domínguez-Brito, Jose D. Hernández-Sosa, Jose Isern-González, Leonhard Adler

10.00-10.25 **Towing with Sailboat Robots**

Luc Jaulin, Fabrice Le Bars

10:25-10.35 **“WRSC-in-5” 2 x 5 minute WRSC2014 Team Presentations I**

10.35-11.15 Coffee Break

Presentation Session II: Chair: Benedita Malheiro

11.15-11.40 Power Management Strategies for an Autonomous Robotic Sailboat

Kjell Dahl, Anton Bengsén, Matias Waller

11.40-12.05 METASail – A Tool for Planning, Supervision and Analysis of Robotic Sailboat Mission

José Carlos Alves, Nuno Alexander Cruz

12:05-12.20 **“WRSC-in-5” 3 x 5 minute WRSC2014 Team Presentations II**

12.20-13.30 **Lunch**

Presentation Session III: Chair: Fabrice Le Bars

13.30-13.55 Towards Active Course Marks for Autonomous Sailing Competitions

Paulo Ferreira, Benedita Malheiro, Pedro Guedes, Manuel Silva

13.55-14.20 Piezoelectric Vibrational Sensor for Sail Luffing Detection on Robotic Sailboats

Halie Murray-Davis, David Barrett

14.20-14.45 MaxiMOOP: A Multi-Role, Low Cost and Small Sailing Robot Platform

Paul Miller, Matthew Hamlet, Colin Sauze, Mark Neal, David Capper, Daniel Clark, Ashley Iles, Louis Taylor

14:45-14.55 **“WRSC-in-5” 5 minute WRSC2014 Team Presentations III**

14.55-15.35 Coffee Break / Poster session

15.35-17.00 **Panel Discussion** Chair: Fearghal Morgan
Panellists: Dr Colin Sauze, Department of Computer Science, Aberystwyth University, Wales
Prof. José Carlos Alves, Universidade Do Porto, Portugal
Prof. Paul H. Miller (US Naval Academy), USA
Prof. Luc Jaulin, ENSTA, Brest, Bretagne.
Dermot Tynan, HP Cloud Galway, Co-Chair IRSC2014/WRSC2014

Topics (subject to change):

1. Exploiting the unique characteristics of robotic sailing boats for applications in the domain of ocean sampling, surveillance, cooperation with autonomous underwater vehicles
2. Horizon 2020 opportunities
3. International Regulation of autonomous marine crafts
4. Enabling and building the IRSC/WRSC community
5. Underwater robotics
6. Other (submit suggestions and ideas to fearghal.morgan@nuigalway.ie)

17:00 **IRSC2014 Conference Close** F Morgan/D Tynan

18:00-22.00 **Conference Dinner/BBQ** [The Corrib Princess](#), Lough Corrib, Galway
IRSC2015/WRSC2015 presentation
Best paper award

Additional conference dinner vouchers may be purchased in advance of IRSC/WRSC by contacting dtynan@hp.com, or can be obtained from the registration desk on the day.