

ROYAL THAMES
MANSURA
TROPHY

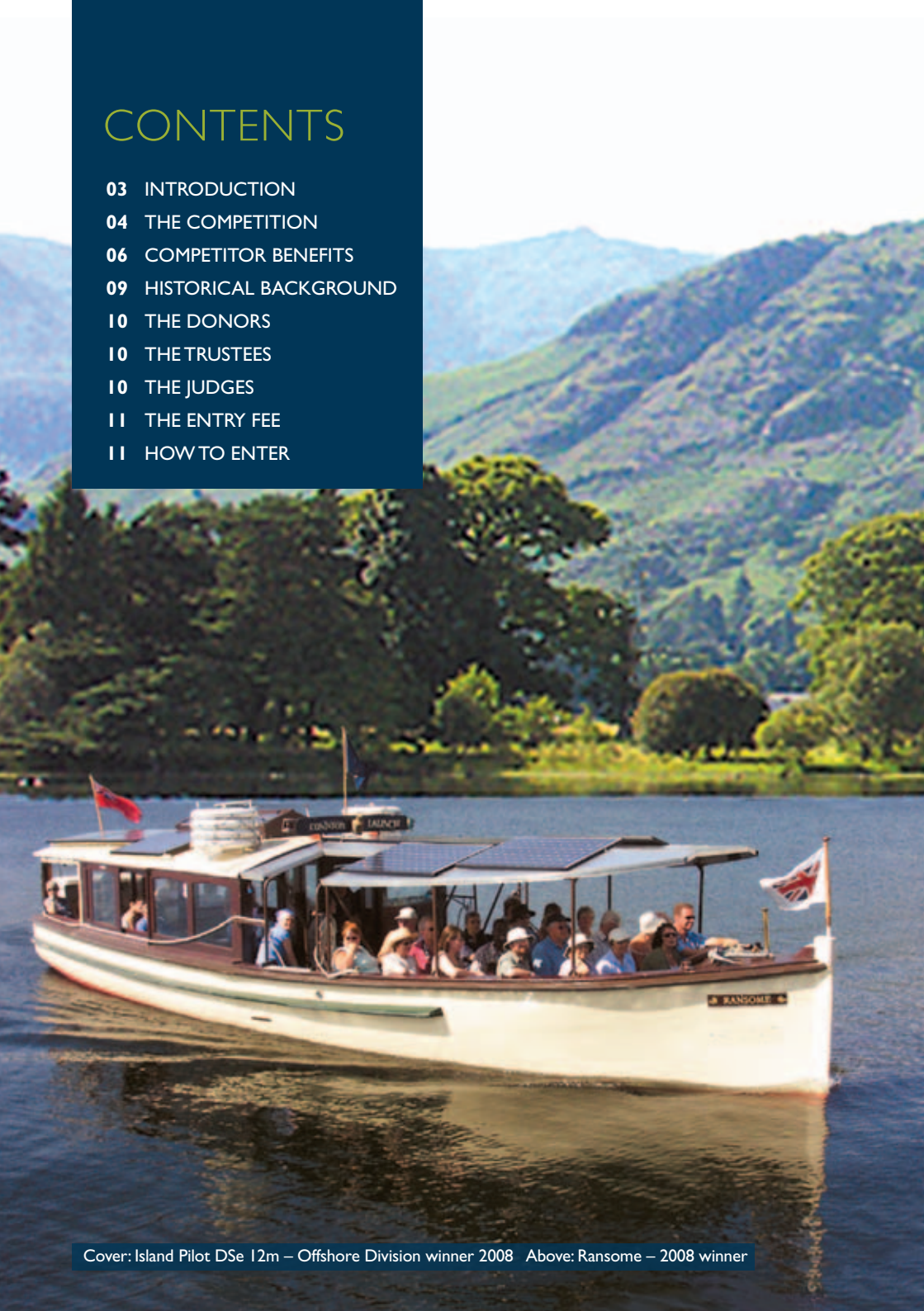


2012 ENTRY INFORMATION



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THE ROYAL THAMES MANSURA TROPHY

AN INNOVATIVE, TECHNICAL AND ECOLOGICAL COMPETITION

Organised in association with the Royal Yachting Association and The Green Blue with the support of Bosch Engineering GmbH

INTRODUCTION

The Royal Thames Mansura Perpetual Challenge Trophy has been donated as the premier prize for an international competition, contested biennially, recognising excellence and innovation in the design, development, application and operation of marine vessels with hybrid or all-electric propulsion. Entries are invited for the fourth year of competition.

The technology for electrical hybrid powered vessels is not new, indeed in 1912 the motor yacht Mansura was engineered as a hybrid to give its owner and Royal Thames Yacht Club member, Jack Delmar-Morgan, the greatest flexibility in his cruising; a ground-breaking proof of concept. That same concept of a conventional engine generating electric power has been utilised by larger commercial and military vessels of many types and configurations over the past century but the application of this technology has only recently begun to be applied to the vast fleet of smaller pleasure and commercial craft that populate the world's oceans and inland waterways.

The rapid increase in per capita oil and gas consumption in China and India to levels that will equal or exceed that of the USA is driving the automotive industry in its development of hybrid power systems and the search for viable hydrogen cell power delivery.

While governments and non-governmental organisations seek ways of reducing use of fossil fuels and encourage development of any and every form of sustainable power source, the Royal Thames Yacht Club invites designers, builders and operators of craft exploiting hybrid or all-electric propulsion in the maritime environment to demonstrate their skill and inventiveness by entering craft using such systems in this world-wide competition.

THE COMPETITION

The purpose of the competition is to promote hybrid power with electric final drive and it is open to anyone displaying excellence and innovation in designing, developing, distributing or operating craft with these propulsion systems.

Preference will be given to craft that do not depend upon fossil fuels, though it is understood that many hybrid propulsors are currently obliged to use fossil fuels for at least part of their power generation. Thus, innovative and economical use of such fuels will not be excluded and the environmental impact of the craft, taken overall, will always be considered. The propulsion system, in addition to sails where these are installed, must embody electric power derived from wind, solar radiation, fossil fuels, biomass, fuel cell or other sources of electrical energy generation.



HRH, The Prince Philip,
Duke of Edinburgh presents
The Royal Thames Mansura Trophy

The Trustees offer the Trophy for biennial competition and the primary qualification is for cruising or commercial vessels of any nationality for seagoing or inland waterway navigation with an overall length not exceeding 122 metres [400 feet].

The Judges will wish to see significant advances in the development or application of hybrid power, the ability to make extended or multiple passages without recourse to frequent charging or refuelling from land-based sources and silent running characteristics. Success is likely to flow from innovative energy generation and storage, improvements in environmental performance and pollution reduction by comparison with existing fuels, existing battery technology and earlier hybrids. They will reward progress towards wider product distribution and after-sales support, more general acceptance of hybrid systems in the market place and advances in endurance, noise reduction and eco-friendliness. Guidance for competitors accompanies the competition rules.

Details of the competition will be publicised in relevant marine and general media. The Trustees' world-wide mailing list of marine and general publications and journalists runs to over 700 contacts.



The Loon - 2010 Inland Division Winner

Competition entry can either be by invitation or application.

The presentation ceremony of the Mansura Trophy for the 2012 competition and of the divisional awards within the competition, together with the Medal for the National or International organisation adjudged the most supportive of the competition's aims will be on Thursday 21st March 2013. The winning entry will be publicised through the

established media contacts of the competition and those of the RYA's joint environmental initiative with the British Marine Federation, The Green Blue.

The facilities of the Royal Thames Yacht Club's prestigious London Clubhouse will be used for the award ceremony and exhibition and such further events as may be agreed between the Club and competitors, particularly with the winning entry.

COMPETITOR BENEFITS

For any company that is already involved in research for low carbon-emission and quiet propulsion and its application on land, sea or in the air this marine design initiative ticks all the right ecological boxes in the public perception.

Entry will afford opportunities for international exposure and to associate with leaders and opinion formers in the international marine marketplace. Since 2007 the Awards have had exposure in publications from the USA, UK, France, the Netherlands and Australia and appeared on the bigger international marine websites.

In 2012 the entry categories will have increased emphasis on the extent of marketability and distribution for established hybrid craft, as well as continuing the recognition of pioneering research and development and outstanding voyages.



The opportunities are many and varied and the following are just some immediate examples:

- The Competitor's name [or brand name alternative] will receive publicity through the Mansura Trophy competition in the marine and engineering press and the Organisers will seek to provide opportunities in the general media for competitors to show off their innovations.
- Association with a modern, forward-looking competition that promotes innovation, ecology, technological crossover and eco-friendliness.
- Association with two of the world's premier yachting organisations and image benefits concomitant with this association.
- Access during and around the annual award ceremony to the Royal Thames Yacht Club clubhouse in London, both for private business-to-business entertaining and for larger-scale announcements, press conferences and meetings.
- Affinity marketing opportunities.

GREEN MOTION

2010 winner

In 2010 the revolutionary "Green Motion" was the runaway winner in the Offshore division. She was built in Durban, South Africa by African Cats BV with very lightweight construction and an innovative propulsion system allowing batteries to be recharged while under sail.

She completed a long and successful maiden voyage to Ijmuiden in the Netherlands via Cape Town, St Helena and the Azores in 2010.



Sydney Solar Sailor
2007 Runner-up



The Coniston Launch Ransome
2008 winner. Note the rooftop solar panels.
The 2008 competition demonstrated the competitiveness of inland water craft.



The Lagoon 420 Hybrid
Winner of the Royal Thames Mansura Trophy 2007



Colne
A 2007 inland entrant

HISTORICAL BACKGROUND

An early pioneer in electrical engineering and the automotive retail business, in 1912 Jack Delmar-Morgan created a motor yacht that was unique.

His yacht Mansura was designed to run selectively under petrol, electric or sail power alone or under any combination of these sources. The petrol engine could be started electrically and the yacht was equipped with electric lighting, cooking and water heating

systems. The hybrid power train delivered 9 knots under petrol power, between 5 and 8 knots under electric power and 11 knots under both but just as impressive was the silent running and ease of her operation and manoeuvrability.



The Hybrid Yacht Mansura on the River Thames in the 1920s

THE DONORS

The Trophy, an elegant bronze reproducing the tiller detail from Jack Delmar-Morgan's Mansura, has been commissioned and donated to the Royal Thames Yacht Club jointly by his grandson, Julian and businessman, David Barratt of Duff Morgan and Vermont Limited, with the intention that the original innovative engineering concept should be brought into the 21st. Century and applied at a time when the world is seeking solutions to its ecological challenges.

THE TRUSTEES

The Mansura Trophy has been donated to the Royal Thames Yacht Club, who under a Deed of Trust, organise and promote the competition jointly with the Royal Yachting Association. Three Trustees are appointed to set rules, appoint judges and oversee the competition.

Founded in 1775 and the recipient of its Royal Warrant in 1830, the Royal Thames is the oldest established yacht club in the United Kingdom. Its 1,400 members own an impressive register of yachts, both sail and motor, and enjoy a uniquely prestigious London clubhouse. The Club's exclusivity is matched by its international reputation for excellence in yachting competition and management and it has reciprocal membership benefits with the most exclusive yacht clubs world-wide. The Royal Thames nominates two of the three Trustees. Founded in 1875 as the Yacht Racing Association and re-named the Royal Yachting Association in 1952, the RYA

represents the interests of over 100,000 members in all forms of leisure boating from Olympic yachting to ocean racing, cruising under sail and motor and powerboat racing and provides a broad range of services in support. A leader in encouraging personal excellence and responsible boat ownership, it is influential in the politics and ecology of leisure boating and enjoys wide international recognition. The RYA nominates one of the three Trustees.

THE JUDGES

The Trustees have appointed a knowledgeable panel of Judges to assess submissions in the 2012 competition. They are:

David J Arnold (Chairman) – LLB, MSc in Management Studies, Master Mariner. David has been chief executive of a succession of companies, some in the fields of engineering and technology. He also has many years' experience in sailboat racing both as competitor and race officer. He has owned a series of substantial motor yachts in which he has made significant passages.

Derek Bernard – Chairman, Transmission Systems Limited. In 1990/1 Derek was a Judge in the UK nation-wide Toshiba "Year of Invention" competition. Since 1963 he has been a senior engineering executive or director of a succession of engineering companies, starting with Lotus Cars Limited and latterly as principal of Transmission Systems Limited.

Kim Hollamby – Chief Executive, du Pré Group plc. distributors of marine electronic systems, accounting and management software designers, providers of education and training. Kim was formerly digital development director for IPC Media. He has also chaired the DAME awards for HISWA.

David Elson MEng CEng MRINA – Director of Member Support Services, British Marine Federation. Chairman of BSI Large Yacht Technical Sub-Committee and Small Craft Sub-Committee. Chairman of Superyacht UK Technical Group. Member of UK MCA Domestic Passenger Ship Steering Group. Board member of International Marine Certification Institute. From 1994 to 2009 David was engaged internationally in the design and construction of a wide variety of craft from racing dinghies to 80m motor yachts.

Hubert Moeller MSc DipIng – Managing Director, Business Development, Bosch Engineering GmbH. Hubert has more than 20 years experience in developing and launching chassis and safety systems at Robert Bosch GmbH. As managing director for business development of Bosch Engineering GmbH, he is involved in the successful transfer of proven automotive technology into other areas such as marine applications.

THE ENTRY FEE

Once again this year, the Trustees are pleased to announce that, thanks to the generous support of Bosch Engineering GmbH, they have found it possible to waive the entry fee and the only costs of entry will be those that competitors themselves incur.

HOW TO ENTER

This competition draws directly from a unique historical precedent but is totally modern in its terms, aims and ambitions. On behalf of the Royal Thames Yacht Club and the Royal Yachting Association we invite you to send the Club a formal expression of interest providing full contact details for the party or body that intends to enter, (a form for this purpose is available on the website www.mansuratrophy.com), to which the response will be a formal acknowledgement and an unique serially-numbered copy of the Rules of the Competition for 2012.

Should you wish to enter more than one craft or design, please return separate expressions of interest for each and you will be sent a separate acknowledgement and numbered copy of the rules for each intended entry.

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