

MONTE-CARLO CUP
10-12 JULY 2014



Solar1

SOLAR BOAT WORLD CHAMPIONSHIP

OFFICIAL RACE MAGAZINE





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"It is up to us to show creativity, initiative and drive to develop new projects, like the Solar I Monte Carlo Cup."

HSH Prince Albert II President of the Yacht Club de Monaco

inspired by nature, powered by innovation

Recent years have seen the solar power industry flourish. Based in beautiful Monaco, the "yachting capital of the World", Solar1 brings to the principality its first global event that matches the remarkable scale and innovation of this amazing industry. The Solar1 Monte-Carlo Cup is the first solar boat race to be held on the open sea and the first of many events aimed not only to entertain, but also to educate people in the progress and capabilities of solar power, now and for the future.

The Solar1 Monte-Carlo Cup brings together experts and enthusiasts from the worlds of solar power, green technology and competitive sport and showcases powerful, sun-driven vessels that have been created through inspirational designs and creative thinking. For Bart Bouwhuis and Marnix Hoekstra, Directors of Vripack and creators of the V20, "through the Solar1 Monte-Carlo Cup we are promoting an incredible synergy between nature, innovation and motion."

Monaco is welcoming not only the race of the future but also a race like no other. This is a new era of powerboat racing.

"Welcome to the future!"

Sergei Dobroserdov, CEO of Solar1



"Solar1 races was created to promote the use of solar power in our every day lives, which I strongly believe in. I see it as a great opportunity to animate and excite a new generation, whilst also focusing their attention on important issues such as renewable energy. We use global events to communicate, educate and promote a greener and brighter future to a new generation. Today, we race in Monaco. Tomorrow, we hope to bring the same excitement and innovation to other major yachting centres world-wide"

I would like our future to v clean, economical and sustainable. Solar1 moves us all towards a greener, brighter future!"

SOLAR1 MONTE-CARLO CUP

Divided into three classes (Class A, V20 and Open Class), competitors face three challenges held on the sea in front of Port Hercule and in Larvotto Bay: a Fleet Race round two buoys, a Slalom Race and finally

the thrilling One-on-One Sprint Championship between two buoys. The Notice of Race was drawn up by Hill Dickinson, an experienced international law firm with a leading yacht practice. As legal advisors to

some of the biggest names in yachting including the Superyacht Cup in Palma and the St Barths Bucket Regatta, the Solar1 Monte-Carlo Cup promises to be a great success. Three days of festivities are planned

to raise awareness among as many people as possible of the progress made in solar energy and affirm Monaco's position as a centre of excellence in yachting and technologies for nautical industries.

Exactly 110 years after the first powerboat meetings, when the world's industrialists flocked to the Principality to present their latest developments in engine technology, the story continues.

CHALLENGING..... ENVIRONMENTAL ISSUES

One of the most important elements of the Solar1 Monte Carlo Cup 2014, and the characteristic that makes it so distinct, is its commitment to challenging environmental issues.

In addition to creating an exciting and competitive racing event, Solar1's main objectives are:

- RAISE AWARENESS, EDUCATE AND ENCOURAGE THE WORLD IN THE LATEST INNOVATIONS OF SOLAR POWER AND GREEN TECHNOLOGY PROMOTING ENVIRONMENTALLY FRIENDLY BEHAVIOUR.
- HOLD WORLD CLASS SOLAR POWERED RACING EVENTS UNITING ENVIRONMENTALLY FRIENDLY INDUSTRIES AND PEOPLE.
- COLLABORATE THE MINDS OF TODAY WITH THE YOUTH OF TOMORROW TO ENSURE A GREENER, BRIGHTER FUTURE.
- BECOME THE TESTING AND PROMPTING GROUNDS FOR ADVANCES IN ALL ECO-FRIENDLY TECHNOLOGY.

Solar1 TEAM



Sergei Dobroserdov
CEO



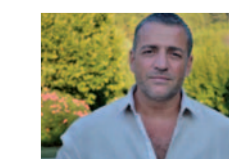
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RATTY, *THE WIND IN THE WILLOWS*

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Contacts:
Tony Allen
+44 (0)20 7280 9154
tony.allen@hilldickinson.com

David Reardon
+377 9770 0462
david.reardon@hilldickinson.com

Martin Penny
+ 377 9770 0463
martin.penny@hilldickinson.com

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meettheteams

SolarI's inaugural race will see a total of 28 teams from all around the world competing in the SolarI Monte Carlo Cup 2014 which features 3 Racing Classes: A Class, Open Class and V20 depending on various technical specifications, solar panels and the crew.

Competitors face three challenges held on the sea in front of Port Hercule and in Larvotto Bay: a Fleet Race round two buoys, a Slalom Race and finally the thrilling One-on-One Sprint Championship.

A majority of the boats entered have been designed and built by engineering students or alumni from international universities committed to promoting solar power as a credible source of energy for the future. Some teams from major engineering institutions, such as the Antwerp Maritime Academy (Belgium), the Carnegie Mellon Solar Racing Team (USA), Kyamk & Kymenlaakso Universities of Applied Sciences (Finland) and the Solarboot Team Emden (Germany) have been pushing solar technology boundaries for many years. The A class category has a wide array of experienced solar racers with award winning competitors such as Vento Sul who have come all the way from Brazil and who are five-time champions of the Brazilian Solar Challenge. An interesting match for the Dutch champions VHL-Nordwin Zonnebootteam and ROC Freese Port Sneek or the Californians, team SMUD, who

have won the Northern California Solar regatta two years in a row.

All teams have used highly innovative and sustainable technology in the creation of their vessels. The Dutch Solar Boat Team for example joined forces with SymbioShape, a sustainable 3D printing company for the manufacturing of several parts of their brushless motor.

Participants in the Open Class category also face some very experienced, high performing teams such as 2010 and 2012 DONG champions Private Energy Solar Boat and TU Delft Solar Boat Huisman, two-time champion of the DONG Energy Solar Challenge in 2006 and 2008. Tu Delft recently revealed new innovative designs based on a bicycle! Also competing in the Open-Class will be the French Concept Hélios Propulsion team, racing with their "Eolios" solar racer.

Within the new V20 class, SolarI have attracted Team Beluga Powered by Synergy, whom will race for the first time in their brand new V20, rivalled against our own Monaco based team, Nakhimov Racing.



IS IT A BIRD? IS IT A PLANE?
NO, IT'S THE NEW V20!



A CLASS

Single crew boats, max length 6m with four standard solar panels limited by a maximum power output of 1750WP.

| TEAM | COUNTRY |
|------------------------------|-------------|
| ANTWERP MARITIME ACADEMY | Belgium |
| DUTCH SOLAR BOAT TEAM | Netherlands |
| HAN | Netherlands |
| ROC FRIESE POORT | Netherlands |
| LAGUNA CREEK HIGH SCHOOL | USA |
| SOLAR TEAM LINDENBORG | Netherlands |
| TEAM SUNRISE | Netherlands |
| VENTO SUL | Brazil |
| VHL - NORDWIN SOLARBOAT TEAM | Netherlands |
| ZSC SOLAR BOAT TEAM | Netherlands |

OPEN CLASS

Single crew boats, max length 8m with no limitation on solar panel power output. Teams are free to push the boundaries of creativity and innovation to the limit.

| TEAM | COUNTRY |
|--|-------------|
| CARNEGIE MELLON | USA |
| SOLARBOOT TEAM EMDEN | Germany |
| EOLIOS BONSECOURS | France |
| SOLAR TEAM HVA | Netherlands |
| LIANDER SOLARTEAM | Netherlands |
| MIDNIGHT SUN KYAMK | Finland |
| MIDNIGHT SUN MAMK | Finland |
| CLAFIS PRIVATE ENERGY SOLAR BOAT TEAM | Netherlands |
| SOLAR TEAM WINDENSHEIM | Netherlands |
| SOLAR BOAT TEAM ROCvA | Netherlands |
| TU DELFT SOLAR BOAT TEAM | Netherlands |
| CLAFIS PRIVATE ENERGY SOLAR BOAT TEAM II | Netherlands |

V20

From SolarI's technical partner the Dutch firm Vripack: a new class. As with Formula 1 cars, this is a one-design class but teams can add innovative extras like foils, propellers or larger or lighter batteries to make the difference.

| TEAM | COUNTRY |
|--------------------------------|-------------|
| ACHTERHOEK | Gelderland |
| TEAM BELUGA POWERED BY SYNERGY | Russia |
| KMTO | Netherlands |
| NAKHIMOV RACING | Monaco |

No you are not dreaming, the fantasy of creating a vessel capable of doing 30 km/h purely generated from solar power is a reality. A reality brought to us from Vripack, a Dutch design studio led by two visionary naval architects and self-proclaimed "fantasy engineers".

Earlier this spring, the V20 received an honor from the UIM, the international governing body of powerboating. The UIM selected the Vripack V20 for a 2013 UIM Environmental Award Special Mention, given to individuals and organizations that exemplify innovation and leadership in protecting the environment while promoting powerboating.

Q Congratulations on this prestigious award! So what inspired you to create the V20?



A We have been participating in solar races for several years now and felt that the industry really deserved an international one-design race circuit, similar to Formula 1 car racing, with boats that can be customised and that provide a better opportunity for pilots to showcase their skills. We designed the V20 exactly for that purpose with room for each team to innovate with the propellers and the foils. It will be very exciting to witness the very first V20 class race that will be held a few weeks before SolarI at the DONG Energy Solar Challenge in Holland.

Q So what makes the V20 so fast?

A The V20 is a Hydro Foiling WIG (Wing in Ground) vessel capable of increased speed and agility thanks to its lightweight design and innovative technology. We needed to reduce the drag on the hull of the boat as much as possible in order to maximise its speed and like the design of the latest yachts to race the America's Cup, it uses foils, like fins, to lift the hull out of the water and fly across the water at an astounding 30 km/h.

Q Why partner SolarI?

A Solar energy is one of the most important pieces in the puzzle towards a sustainable economy. The SolarI Monte Carlo Cup promotes the ultimate synergy of nature, motion and innovation within the yachting industry. Not to mention that the rationales of SolarI connect very well with Vripack's Holistic design approach. The constant focus on expertise from the fields of innovation and scientific development is important to Vripack in order to stay focused on delivering high quality design, architecture and engineering. The event has also attracted a wealth of young and dynamic talent and we believe it will become a great platform for enticing young talent into the yacht design industry as a whole.

Q What next for the V20?

A We are in contact with several yacht clubs around the world, in Europe and the Middle East mainly, who are interested in organising a solar race in their waters. Fingers crossed that we will see the V20 class race circuit grow further in 2015. Finally, although the V20 was initially designed as a racing vessel it's also just a brilliant toy and we have had a number of requests from superyacht owners looking to complete their collections!





Orsto

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without compromise



a race against time

The yachting industry thrives on the beauty of the world's oceans and will only continue to prosper if they remain healthy.

The yachting industry thrives on the beauty of the world's oceans and will only continue to prosper if they remain healthy.

All vessels, even sailing yachts, pollute during the totality of their lifecycle from conception right up to their destruction. Although the marine industry has already caused significant damage to the environment, it isn't too late to make positive changes.

According to Giles Hunt, Technical Manager of Hill Robinson, there are several driving forces responsible for change towards more 'eco-friendly' vessels. "Primarily increased regulation controlling emissions and pollution. Classification Societies such as Lloyds Register and Rina are encouraging new clients at the design stage to follow their more stringent "Green" Class rule notations. However, until these rules perhaps become compulsory, we won't see any major revolution nor could it be imposed until the required technologies become more widely available. In the mean time, navigators can make behavioural changes that will reduce their fuel consumption and emissions such as cruising at most economical hull speeds, using weather routing services to avoid bad conditions, introducing energy efficient lighting, better maintenance and perhaps even offsetting carbon emissions through specialised organisations."

While many yacht owners are increasingly concerned with their carbon footprint it is very difficult to find a vessel that boasts zero-carbon emissions but that benefits from the same propulsion capacity as a traditional motor yacht. "There is however a great compromise in hybrid propulsion", said Sergei

Dobrosredov, Director of Nakhimov Yachts, who are in the process of building three high-tech hybrid superyachts for clients at the new Admiral facility in Italy. "These yachts will also benefit from Rina Green Plus certification bringing our clients the added bonus of being easier to market for charter."

"TECHNOLOGY COMES AT A PRICE"

While "Technology comes at a price", added Albert Abma, naval architect at Vripack and in charge of overseeing these constructions. "Today, yacht owners are prepared to make concessions on the price of hybrid propulsion because they know that this will be offset during the lifecycle of the yacht and that they will be able to get better mileage. At Vripack we have the responsibility to present green techniques that are available and surpass the innovative state-of-the-art techniques in combination with a good balance regarding to economical feasibility."

The tender manufacturer Pascoe International, have sourced a fuel cell capable of bringing clean power to their tenders but its price is currently double that of building an entire tender. According to their General Manager, Richard Watson "the biggest driving force remains the consumer, a greater desire to move to renewables will increase market demand, driving technology levels up and prices down. At the moment there simply isn't enough demand."

Feadship have also been taking a keen interest on reducing emissions and are currently testing synthetic fuel. "An almost

complete total reduction of environmental impact is possible", said Ronno Schouten Design Manager of Studio De Voogt, "but it's not currently economically feasible. For example we foresee the use of more solar panels on yachts although they will only be able to deliver a small percentage of the total energy consumption on board due to the limited space available".

Luca Bassani, Founder and CEO of Wally takes a similar view believing that "the costs involved in R&D coupled with the conservative mentality of the yachting industry is a real obstacle for change. Yachting just can't afford these costs as the production numbers are too small. The commercial shipping industry however can and our industry will be highly influenced by their innovations, such as the use of sails."

Another key aspect to reducing fuel consumption is of course hull design as a huge amount of energy is lost due to the drag as they move through the water. Numerous innovations in marine paint technology have also sought to address this issue such as The Mitsubishi Air Lubrication System which pumps air bubbles onto the bottom of a ship's hull to reduce friction.

With subsidies increasingly being injected into energy innovation, we can expect major technological advances to continue to astound us. "All other mechanised transport industries recognise the need for greater efficiency so it is natural that Superyachts will follow the same route and embrace new technologies offering this" concluded Rob Williamson, Project Manager at Nakhimov.

V20 Solar Racer

The V20 is the World's first One Design Solar Racer which is solely driven by the energy created from the sun. Capable of speeds up to 30 km/h, the V20 is a Hydro Foiling WIG vessel that creates such lift that the pilot literally flies across the water. Guaranteed sensations from 60,000 EUR.



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VRIPACK

a shining example.....

The official jury boat for the 2014 Solar1 Monte Carlo Cup is the breath-taking, award winning & world-record breaking MS Tūranor PlanetSolar.

On 4 May 2012, after 584 days of sailing more than 60,000km, the impressive island of solar panels completed the first trip around the world powered by solar energy alone.



AN INTERVIEW WITH GÉRARD D'ABOVILLE, CAPTAIN OF MS TURNAOR PLANETSOLAR.

Q Your 2010-2012 world tour was a resounding success, what have you been doing since then?

PlanetSolar was never meant to be "just a world tour". The owner of the vessel wanted to breathe a second life into her in order to illustrate its practical application and promote solar energy. In 2013 we teamed up with the University of Geneva to convert the boat into a unique non-pollutant scientific platform to carry out research along the Gulf Stream. The success was so huge that we decided to plan another one in 2014. Before arriving in Monaco for the Solar1 race, we will have stopped in Boulogne-sur-Mer (France) where we had over 1500 visitors in ten days and Attalayoun (Morocco) at the heart of the Marchica Lagoon. The local authorities look upon the boat's arrival in this region as a means of encouraging the use of renewable energy as part of a substantial revitalisation project of the area.

Q What impact do you feel you have on the promotion of sustainable energy?

The MS Tūranor PlanetSolar is the perfect tool for promoting solar energy. She is a great mobile ambassador. The world tour proved to the world that solar energy is capable of moving a 100T boat across oceans. With the 2013 campaign, the boat demonstrated that she can be useful to society and be used for concrete projects like we did with University of Geneva. The impressive boat design attracts media and public curiosity at every stopover and increases interest around solar energy.

Q As captain of Planet Solar; how would you define your role?

This is a very exciting role indeed and so different from anything I have done before! Not only do I have to consider the currents and the wind but I also need to include the "sun" factor, which is of course our fuel. On top of this, the communication aspect is very important, I have to spread the good news about solar power to the public and to the press. I write blogs, take photos... these tasks give another dimension to my work. Commanding this vessel is an unusual role for a sailor; but so exciting! I feel very lucky to be part of this adventure.

Armed with an internationally recognised brand, the company has today decided to broaden its sphere of activities and put its knowledge, skills and experience in renewable and clean mobility energy at the service of clients and partners. The Swiss company PlanetSolar S.A. behind the venture is fuelling the ambition to carve out a place (in the sun) in the photovoltaic (PV) market in Switzerland and abroad. Solar1 would like to thank the captain and crew for their role as Official Jury Boat and wish them the best of luck in their next adventure: After the race, the MS Tūranor PlanetSolar will leave Monaco for Greece where it is scheduled to resume its role alongside the University of Geneva as a scientific platform for the purpose of studying submerged prehistoric landscapes.

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monaco...

The birthplace of nautical innovation.

Inaugurated just a few weeks ago and designed by the illustrious British architect Lord Norman Foster and Monaco-born architect Alexandre Giraldi, the spectacular new Yacht Club de Monaco is a celebration of the Principality's nautical heritage.

The club has been cleverly designed to resemble a transatlantic cruise liner of the early 20th century (the building could almost be mistaken for one of the vessels moored in its port!) with a series of deck-like terraces that step up along the harbour to offer unrivalled views out to races at sea or inland over the course of the renowned Formula 1 Grand Prix circuit.

NOT JUST A PRETTY FACE

But the Yacht Club de Monaco is not just a pretty face. From its inception, HSH Prince Albert took a keen interest in helping ensure the project had the least environmental impact possible by making use of the very latest technology and design innovations. As a result the building has been built to HQE® (Haute Qualité Environnementale) standards with efficient water, waste and energy management systems, photovoltaic solar panels and a hydro-cooling system that recycles water from the port.

The Principality of Monaco is aiming to become irrefragable in environmental protection. As part of these endeavours, HSH Prince Albert II of Monaco has established a foundation dedicated to the protection of the environment and the promotion of sustainable development. The Foundation supports initiatives of public and private organizations, in the fields of research and studies, technological innovation and socially aware practices. The foundation is not only active in the Mediterranean basin but also in the Polar Regions and developing countries.



'With its new building, Yacht Club de Monaco is set to become the hub for all nautical activities in Monaco, so an event like Solar1 will be a great addition to our existing calendar of events. One hundred years on and history is repeating itself! It's a very exciting project as it involves a major shift and a very practical innovation to take the yachting industry forward, something Monaco has always been aware of in order to support Yachting evolution.'

Bernard d'Allesandri, YCM General Secretary



3 questions with Marco Casiraghi

Q You have been instrumental in assisting Solar1 in the organization of the first solar boat race in Monaco, what motivated your decision to become involved?

My background is engineering and I am involved in several academic associations here in Monaco that promote engineering, science and renewable energy. HSH Prince Albert II and Bernard Alessandri are also aware of my passion for powerboat racing, so it was quite natural that they should ask me to lend Solar1 my support.

Monaco is the ideal setting for such an event: the sun is always shining, the sea is beautiful and we have the World's most exclusive Yacht Club. We are capable of attracting media attention and support from the local authorities.

Q Why do you feel it is important to attract media attention to this event?

I am a firm believer in renewable energy and that we must apply new technologies in energy saving to our day-to-day lives. There has been much innovation in energy saving but they are not used enough by the general public and decision makers. I hope that the Solar1 race will draw attention to the capabilities of solar power and improve consumer knowledge.



Q How do you see the future of solar power?

Some projections expect new Solar PV installations worldwide in 2014 representing 49GW, which is three times more than in 2010. Enough energy to supply electricity to 50 or 60 million homes.

Solar power is increasingly efficient and its cost is dropping. These key factors contribute to its growing popularity and competitive edge on conventional sources.

As an engineer, I have spent much of my business career in energy intensive activities such as air conditioning, paper manufacturing and construction, so I have seen first-hand how much energy is wasted and how emissions can be reduced through proper attention and knowledge. Solar PV can and will contribute to a better world for us and for the next generation.



a rich racing & yachting heritage

The Société des Régates de Monaco was formed in 1888 by a group passionate about sailing and rowing, which in the late 19th century attracted sailors from across the region to race in Monaco.

At the beginning of the 20th century, some 25 years before the creation of the first Monaco Grand Prix, Monaco set the scene for powerboat racing with the organisation of a revolutionary race.




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SOLAR 1 technology conference

Solar1 proudly present an innovative and engaging conference program for the first edition of the Monte-Carlo Cup. We hope you will enjoy listening to some of the key players of this historic race and discover solar industry experts as they present the latest in innovation and market trends. The conference will kick off with an introduction by racing and renewable energy enthusiast, Marco Casiraghi.



JORIS MELKERT 12.05PM
Technical Director TU Delft

Joris Melkert is senior lecturer at the Faculty of Aerospace Engineering of TU Delft in the Netherlands and is chairman of the technical committee of the Dong Energy Solar Challenge. He has been involved in the development of Nuna Solar cars as well as the Superbus project.



MARTTI KEMPPINEN (DR. TECH.) 10.10AM
Research Director, Materials Technology
Finnish solarboat pioneers and their achievements

Dr. Kemppinen gives the presentation on the behalf of Mr. Ponkala. Dr. Kemppinen has graduated from Helsinki University of Technology and has been the last 12 years the Materials Technology Research Director in Mikkeli University of Applied Sciences.



JEAN-NOËL LE TOULOUZAN 1.25PM
Association CONCEPT HELIOS PROPULSION, Secretary
Solar boat power and Planet Solar

Sailing on 470 dinghy, Fédération Française de Voile sailing instructor, the author sails on solar boats as soon as 1999.



DAVID M. SNIR 10.30AM
CEO: WeWi Telecommunications, Inc.
The power of sun-powered open source technologies

Inventor, author, and novelist David M. Snir is a serial entrepreneur who has dedicated his life to advancing technology. His core research is in applied sciences and adaptive learning systems. David is a UWV alumni (where he majored in mechanical engineering, music, and minored in philosophy) and continued his graduate studies in strategic management at Harvard.



GÉRARD D'ABOVILLE 1.40PM
Captain: MS Türanor PlanetSolar
Presentation of the MS Türanor PlanetSolar and her expeditions.

D'Aboville is the first man to have rowed across two oceans solo: the Atlantic Ocean (1980) and the Pacific Ocean (1991). In 2006, he takes part in the launch of PlanetSolar as a key patron. In 2012 the first world tour only powered with solar energy is achieved. Since then, Gérard d'Aboville commands the vessel for her second life as scientific platform and an ambassador for solar energy.



JEAN-CHRISTOPHE OBERTO 11.10AM
Executive Director of Novatio Capital Limited, administrator of The Renewable Financing Company
Financing solar energy projects

Jean-Christophe is an Executive Director of Novatio Capital Limited acting as Administrator of The Renewable Financing Company, providing debt financing to renewable energy assets. He is also a Partner of Independent Debt Capital Markets LLP, an advisory debt boutique which excels at structuring and arranging bespoke and innovative debt financing solutions.



JURIAN RADEMAKER / SJOERD TIMMERMANS 2.00PM
Owner of Q Concepts / Lecturer at the HAN University of Science
Interdisciplinary development / development in multidisciplinary teams

Jurian is the founder of QConcepts, which specialises in product development, aiming for the application of composite materials and flow analyses. Jurian, educated in the field of marine engineering, has a lot of experience in boat design and construction.

Sjoerd, MSc., is a keen sailor and senior lecturer at HAN University of Applied Sciences where he specializes in product development and multidisciplinary teams. Previously, he worked in multinational corporations like Heineken and Unilever.



ERIC JOHNSON 11.25AM
AP Physics and Career Technical Education Instructor
Students providing portable solar power to recipients in Third World/Developing nations

Eric Johnson is from Sacramento, California and has taught college level Physics and Chemistry in high school for 22 years and Career Technical Education courses for the past six years. His high school solar boat racing team is competing in the Solar1 Monte-Carlo Cup. To date, his high school students back in the U.S. have built and shipped 70 solar suitcases to 19 different nations.



ALEKSI TUKIANEN 2.15PM
Programme Director of Cambridge University Eco Racing
The Challenges of solar car racing

After graduation, Aleksi worked for the Federation of Finnish Technology Industries and was a part of the Innovation Networks group. He co-founded a company to help spur technical projects from within the Cambridge engineering and science student body. Aleksi has been recognised by the Royal Academy of Engineering as a future engineering leader.



BART BOUWHUIS AND MARNIX J. HOEKSTRA 11.45AM
Directors of Vripack
Engineering fantasies: The whys and hows of the V20

Vripack is a third generation Studio that is lead by designer and naval architect Bart Bouwhuis and Marnix J. Hoekstra. Bart and Marnix are the third generation owners of Vripack, the Dutch Naval Architecture, Design, Engineering and Brokers firm which was founded in 1961 by Dick Boon. According to Bart and Marnix: "The quality of our work is the sum of experience and enthusiasm".

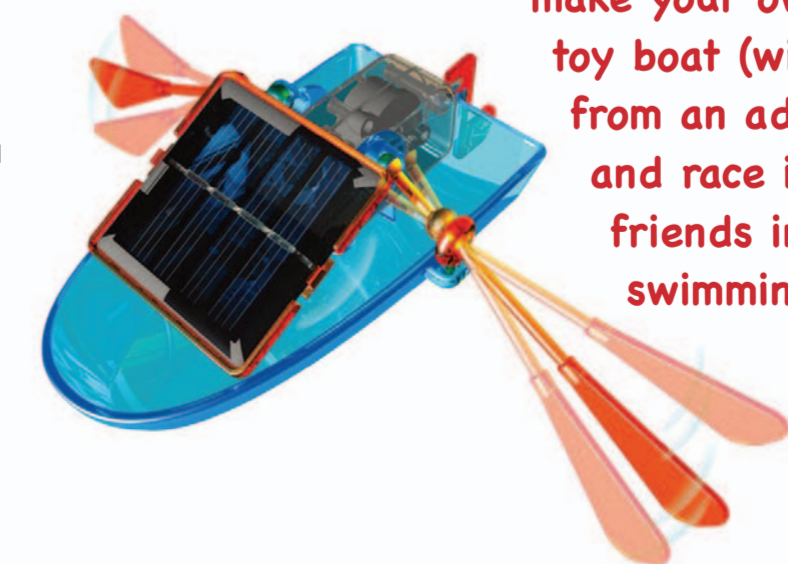


VITTORIO CHIESA 2.35PM
Professor: Politecnico di Milano
The photovoltaic industry: Trends and perspectives

Vittorio Chiesa is Professor at Politecnico di Milano Business School where he teaches Business Administration and Management of energy companies and renewable sources. He is author of six books and more than 200 international publications. He was ranked in the Top 60 World's Innovation Management Scholars in the period 1991-2010.

YCM kid's competition

SATURDAY 12 JULY FROM 11AM TO 1PM



make your own solar powered toy boat (with a bit of help from an adult of course!) and race it against your friends in the new YCM swimming pool.

Who can enter? YCM members children only
Up to 50 participants

Age restrictions? 3-14

How to enter? Members only

What is it? The solar-powered toy boats will be first assembled by kids with help of their parents and then will cross the swimming pool. Jury will determine the winner.

The race will be followed by prizes and light refreshments.

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www.orsto.com



PLANET SOLAR
Built in Kiel (Germany), the M5 Türanor PlanetSolar is the world's largest solar boat. On 4 May 2012, after 584 days of sailing it completed the first trip around the world powered only by solar energy.

www.planetsolar.org



PRINCE ALBERT II OF MONACO FOUNDATION

Founded in 2006 by HSH Prince Albert II of Monaco, the Foundation works for the protection of the environment and the promotion of sustainable development.

www.fpa2.com



SUPERYACHT TIMES
Published by SuperYacht Company and launched in 2007, SYT is one of the industry's most influential online information outlets. Every year they record over 8 million page views for 1.6 million unique visitors.

www.superyachtimes.com



UIM
The Union Internationale Motonautique (UIM) is the international governing body of power boating. It governs all power boating disciplines including Aqua bike, Circuit, Offshore, Pleasure Navigation & Radio-controlled.

www.uim.com



WAJER & WAJER
Wajer & Wajer Yachts is a Dutch shipyard that has made history with five elegant and durable models – the Captain's Launch, the Zeelander and the Wajer Osprey 38, 37 and 34.

www.wajer.nl



VRIPACK
Established in 1961, Vripack is a leading full service design, naval architecture, engineering and brokerage organisation.

www.vripack.com



WEWI
WeWi Telecommunications is a Canadian software, hardware and systems integration R&D corporation. In 2013 they introduced SOL, the world's first laptop that runs entirely by the power of the sun.

www.wewicorp.com



YACHT CLUB DE MONACO
The Yacht Club de Monaco brings together more than 1300 members from 60 nationalities. Its philosophy is based on the desire to foster a respect for naval etiquette and preservation of the environment.

www.yacht-club-monaco.mc



BELUGA
Beluga is a noble Russian vodka produced at the renowned Mariinski Distillery in Siberia. Its refined taste results from its unique composition of malt spirit and the purest water of the Siberian artesian wells.

www.vodka-beluga.com



BOAT INTERNATIONAL
Boat International Media is the world's leading media group serving the superyacht industry, producing over 1.4 million magazines each year that sell in over 57 countries worldwide.

www.boatinternational.com



ENPHASE
Enphase Energy provide microinverter technology to the solar industry. Since its inception in 2006, their semiconductor-based microinverter system has produced more than 1.4TWh of clean energy worldwide.

www.enphase.com



EUROSPORT
Eurosport is a pan-European television sports network of channels available in 54 countries in 20 different languages and provide viewers with international sporting events and news.

www.eurosport.com



FAIRMONT
The Fairmont Monte Carlo is a unique 4-star luxury convention resort located in the heart of Monaco. The hotel is one of Europe's largest and provides its clients with a wide range of services and luxurious amenities.

www.fairmont.com



GREEN.TV
Green.TV is the leading digital network for clean tech and sustainability video content. Green.TV is a media partner with Apple, Yahoo, AOL, Huffington Post, Blinkx and has its own TV channel with Sony.

www.green.tv



HILL DICKINSON
Hill Dickinson is a leading and award-winning international commercial law firm with a renowned superyacht practice.

www.hilldickinson.com



MONACO TOURISM
The Official Government Tourist Office provides news and information on the Principality of Monaco and Monte-Carlo to visitors and travel agents.

www.visitmonaco.com



NAKHIMOV
Founded in 2001, Nakhimov provides a wide range of brokering and management services to the Superyacht industry, including purchase & sales, charter, design & construction, and yacht management services.

www.nakhimov.com

IN MONACO

GREEN ISN'T ONLY AT PLAY AT THE GOLF CLUB

Monaco has always been a dedicated and respected defender of causes in the fields of the environment, ocean protection and sustainable development on a worldwide scale. In this spirit, the Principality's government, its eco-certified Convention Centre (Grimaldi Forum) and its entire tourism industry take increasing initiatives to foster all aspects of sustainable development. Protecting our planet is a real driving force in Monaco. Choose Monaco's expertise to make your event a success.

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www.monacoconventionbureau.com

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EVENT MAP



SOLAR BOAT WORLD CHAMPIONSHIP

WELCOME COCKTAIL & DINNER

COMPETITORS BOOTHS

MONTE-CARLO CUP
10-12 JULY 2014

SOLAR SHOP

CONFERENCE & SOLAR PARTY

RACING CIRCUIT

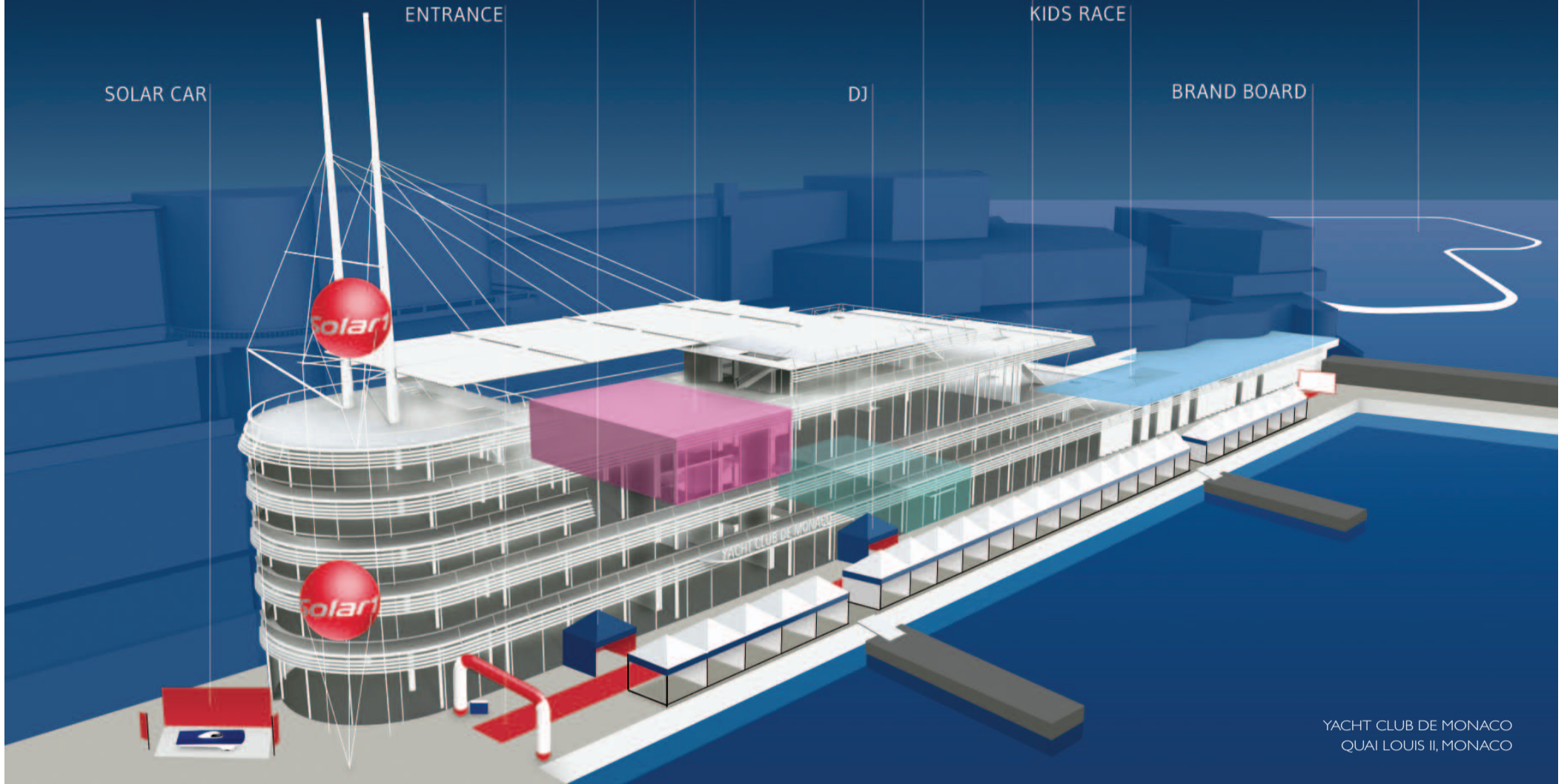
ENTRANCE

KIDS RACE

SOLAR CAR

DJ

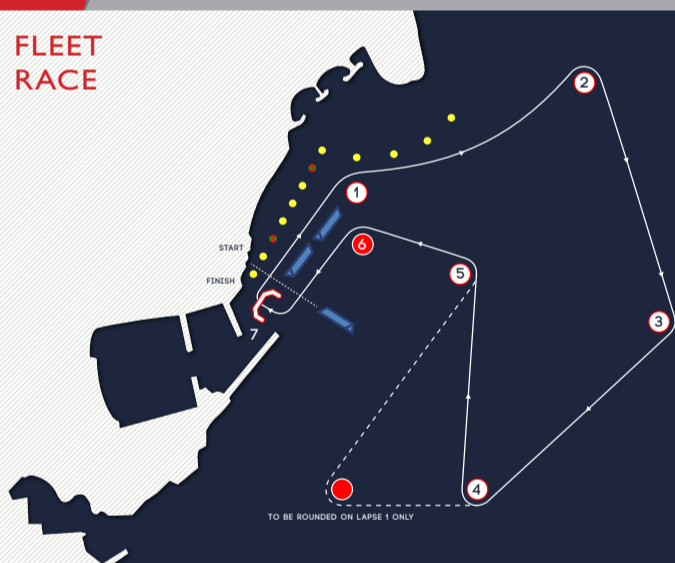
BRAND BOARD



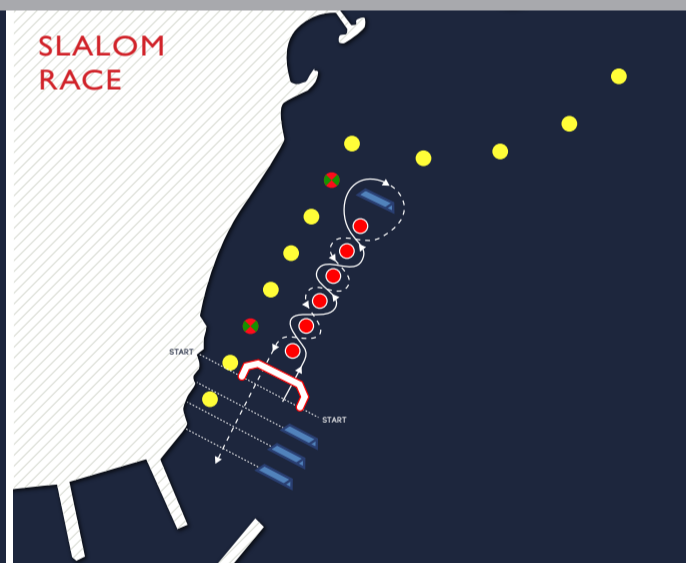
YACHT CLUB DE MONACO
QUAI LOUIS II, MONACO

RACE MAPS

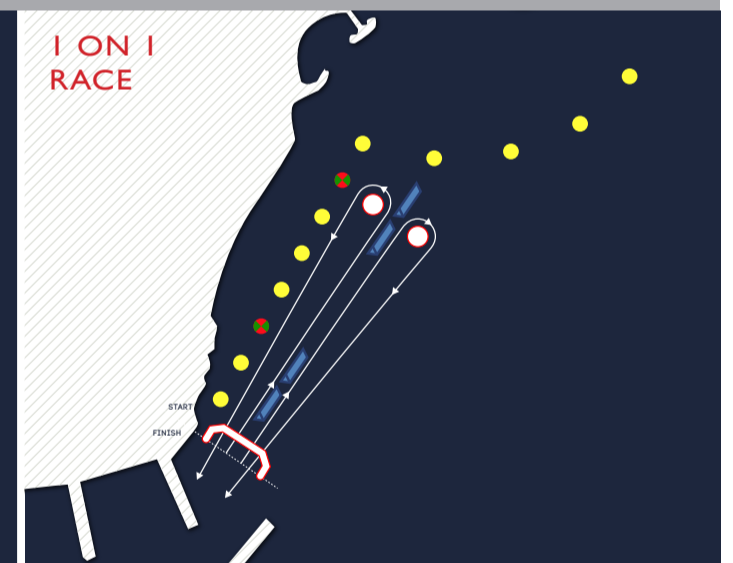
FLEET RACE



SLALOM RACE



1 ON 1 RACE



EVENT SCHEDULE

As competitors and spectators gather to celebrate this unique moment in nautical history, the prestigious Yacht Club de Monaco will be at the centre of an exciting few days of activity.

This 3-day programme will consist of 2 days of racing (11-12th July) complemented by a great range of supporting events and celebrations. Central to the weekend will be a fascinating exhibition, showcasing exciting developments in the field of solar energy.

WEDNESDAY 9 JULY

| | |
|---------|--|
| 9.00am | Team Registration and Technical Inspection |
| 10.00am | Boat Paddock Opens |

THURSDAY 10 JULY

| | |
|------------------|---|
| 9.00am | Boat Paddock Opens |
| 9.15am | Conference Registration |
| 10.00am - 3.00pm | Solar Conference |
| 3.00pm - 4.00pm | Team Parade Lap |
| 5.00pm - 6.00pm | Press Conference |
| 7.00pm - 8.00pm | Welcome Cocktail and Starting Sequence Draw |
| 8.00pm - 11.00pm | Solar1 Inauguration Dinner |

FRIDAY 11 JULY

| | |
|------------------|--|
| 9.00am | Boat Paddock and Solar Village Open |
| 11.00am - 4.00pm | First Warning Signal for the Start of the Fleet Race |
| 9.00pm | Solar Party |

SATURDAY 12 JULY

| | |
|----------------------|---|
| 9.00am | Boat Paddock and Solar Village Open |
| 10.00am - 12.30 Noon | First warning signal for the start of the Slalom Race |
| 11.00am - 1.00pm | Kids Solar Boat Race |
| 1.30pm - 4.30pm | Start of the "One on One" Championship Sprint Race |
| 5.00pm - 5.30pm | Winners Parade Lap |
| 5.45pm - 6.15pm | Winners Podium and Prize Giving |
| 8.00pm - 11.00pm | Gala Dinner |

SUNDAY 13 JULY

| | |
|-----------------|-----------------|
| 9.00am - 4.00pm | Boat Collection |
|-----------------|-----------------|