

YACHT DESIGN MASTER COURSE



The Master is targeted at graduates in architecture, engineering and design and/or professionals in the sector who wish to acquire or further their specific skills in the field of yacht design.

Duration: 1 year

Language: English

Start: January 23rd, 2008

Attendance: Monday thru Friday, full time

Didactic Program

This master programme is tailored to train a professional able to govern the process of designing and building a boat, from concept to shipyard construction, mastering every step of the implementation phase.

Since the course aims to function as a dynamic workshop, training is not focused solely on providing a solid technical and cultural background in the yacht area, but is also closely related to the design process itself and to experimenting both with design and materials.

Intended for graduates in architecture, design and engineering, as well as for those who are already actively engaged in the sector, the course curriculum is designed so as to provide not only the theoretical and technical tools, but also and primarily the conceptual stimuli and hands-on experience that are essential to managing the complexity of yacht design. The course contemplates diverse thematic areas that will be tackled during the year. Such areas will also provide opportunities of confrontation with the real requirements of the yachting industry, moments of further in-depth studies and design experiences.

The thematic areas, intended to cover the various disciplines implicated in yacht design and marine lifestyle, include Materials and Technologies, Construction Methods and Systems, Environment and Sustainability, Regulations and Certification, Computer Aided Design and most important Design.

Granted the theme and interlocutors, which will include designers, companies, exponents and representatives of the yachting world, important space will be given to seminars, lectures, visits and workshops, whose aim is to complement and complete the course curriculum, as well as offer opportunities of discussion.

Didactic Areas

- Tools
 - Technical Drawign
 - Tracing and Fairing Techniques
 - AutoCAD
 - Rhino
 - Max Surf
 - Model Making
- History and Culture
 - Yacht Design and Construction History
- Management
 - Project Management and Management System
- Design
 - Construction Plans
 - Hydrodynamic and Stability
 - Structural Design
 - Deck Plans
 - Interior Design
- Construction Materials and Technologies
 - Wood; Metal; GRP; Composite
 - Hull, Deck and Appendages
- Fit-Out
 - Propulsion
 - Electric and electronic systems
 - Water and Hydraulic Systems
 - Deck Gears and On-Board Hardware
- Masts and Poles
 - Poles
 - Booms
 - Masts
 - Rigging Design and Analysis
- Q.C.
 - Quality
 - Construction Rules and Classification
 - Tests and Trials
- Projects
- Workshops



Coordinator

Sebastiano Rech Morassutti – www.trimarine.com

Born in Milan in 1956, he now resides in Belluno. He has been sailing since age 14 and has studied, alongside Geological Sciences at the Università Statale of Milan, naval drawing and design. In 1984 he became a freelance journalist and a professional photographer. He is a member of S.A.M.P.E. (Society for the Advancement of Material and Process Engineering) and of S.N.A.M.E. (Society of Naval Architect and Marine Engineer). Since the end of the Seventies he has been involved in the construction of racing and cruising yachts; in 1995 he founded, with Fernando Borges de Sena and Antoine Le Villain, Trimarine Advanced Marine

Projects - with offices in Italy and the United Kingdom – specialised in engineering, study, planning and production of yachts and marine structures. Among the projects he has been involved are seven America's Cup Yachts, the Vallicelli/Starck design Maxi "Virtuelle" and many other important yachts.

Consultants

Giovanni Soldini – *Single-handed Yachtsman* - www.soldini.it

He started sailing when he was a child. Aged 16 he made his first Atlantic crossing and in 1989 he won the A.R.C (Atlantic Rally for Cruisers) aboard the 16-metre Sangermani Valentina. His first experience as a single-handed yachtsman came in 1991 in the La Baule-Dakar aboard Looping (ex Servant4), a design by Jean Berret. He placed third overall and second in his class. In 1998 1st Atlantic Alone (60' class) single-handed, overall winner and new race record; 1999 1st Around Alone (60' class) single-handed round-the-world, new race record; 2000 5th Europe 1 New Man Star single-handed, 60' class; 2nd Québec-Saint Malo 50' and 60' classes; 2001 with trimaran Open 60' took part in the Cap d'Agde Grand Prix, Cagliari GP and Fécam GP, 7th in Transat Jacques Vabre; 2002 Season 1st place in Roma x 2; 2003 Italian GP (7th), Marseilles GP (8th); 2004 TheTransat (7th), Québec-Saint Malo (5th); 2005 Corse GP (6°), Giraglia Rolex Cup (6°), Marseilles GP (6°).

Alberto Sonino - *Polo Nautico Vento di Venezia* - www.ventodivenezia.it

Skipper of Hobie Cat, F18 Olympic Class 49r and Tornado, and powerboats. In 1997 he is world and European vicechampion; Italian Champion in 2001, 2003, 2004. Takes part in two Oceanic crossings, 60" TIM trimaran placed fourth at Quebec-St.Malo. From 2002 he is author of the project Vento di Venezia on Isola della Certosa of which he became Managing Director in 2004.

Professors such as

German Frers Jr - www.germanfrers.com

Born in New York in 1969, graduated in Yacht Design at Southampton Institute, UK, he took part of Prada America's Cup 2000 team for 2002-2003 challenge. He worked for several project as Stealth, Boomerang, Wally 77, Genie of the Lamp, Ten PF, Este 24 e 3, Volvo 60 "Amer One" of the Nautor Challenge shipyard and for many other projects. From 1992 he is manager of Frers Studio in Milan.

Lucia Fuzzati

After graduating in architecture followed by a master in yacht design in Florence, Lucia began working for Vismara Yacht Design in Viareggio, a liaison that was to last for more than 7 years. During this time she worked on interior design, later taking on the role of new projects and styling manager, whilst supervising the project management for many of the boats, in particular those made in the Marine Services boatyard in Viareggio, providing support and acting as a technical interface between the boatyard, the design office and the shipowner. After a brief experience working in the design office of the Southern Wind Shipyard, Cape Town in South Africa, where she was in charge of developing new projects and the executive design of sailing yacht interiors, she continued working in Italy as an external consultant for the same company and with the Pegaso Yacht Division, supervising communications between the boatyard and the designer related to development of the boats' interiors.

Gianni Pelucchini

After attending courses in architecture in the faculty of Rome, moved to Viareggio in 1996 where he joined forces with the architect A.Vismara in creating and developing Vismara Yacht Design, where he remained a partner until 2006. He held various positions over the years at VYD, handling the studio's planning and executive activities, and eventually managing the whole studio, coordinating the development of sailing yacht projects, many of which were for custom-built yachts. He acted as project manager for many of these, following the shipowner right from



the initial idea and during the whole construction period, providing support and acting as a technical interface between the boatyard, the design studio and the shipowner. Lately he works as a design consultant and he has worked with the architect M.Paperini on the project for the Sailing Yacht O.R.111' in construction at the Ta Chiao Chou Yacht Building boatyard in Taiwan.

Davide Tagliapietra - www.styacht.com

After graduating in Aerospace Engineering in 1999 with a thesis on canting keels, he worked for a year at the Polytechnic in Milan under an Agusta scholarship using software for advanced structural calculations. From 2000 to 2004 he worked for the Frers studio dealing with the design of various racing boats including: Volvo 60' (amer sport one), America's Cup (Victory Challenge, Orm, Orn), Volvo 70'. From 2004-2007 he was responsible for structural calculations for the +39 Challenge challenger team in the 32nd America's Cup.

In August 2007, together with a former colleague, he set up a design company called Schickler Tagliapietra Yacht Engineering.

Marta Pizzarello - www.3sconsulting.it - www.ydesign.it

She is graduated in 1999 in Architecture at Venice University with a yacht design thesis. She started immediately working in naval field as employee in Fincantieri technical department. As a project engineer, she was responsible for design development of cabin and public areas on several vessels of the most prestigious cruise companies. As a project leader, she managed interior design of Tirrenia fast passenger ferries. She founded in 2001 her design studio together with a naval engineer, based in Rome, where she completed several designs for recreational and work vessels. In April 2007 she was one of the founders of Y-Design studio, addressed mainly to recreational and Superyacht sector. Together with Y-Design colleagues, she quarterly publish some articles about yacht design and technology on the italian magazine Nautica Superyacht.

Marc Van Peteghem – www.vplp.fr

Studied naval architecture at Southampton Institute where he met his partner Vincent Lauriot Prévost. Together they created Van Peteghem Lauriot Prévost Yacht Design (VPLP) in 1983. VPLP specialise in multihull design and are responsible for some of the most powerful and luxurious multihull on the market. Some of VPLP's noteworthy projects are 60' Pierre 1ere for Florence Arthaud, 110' Geronimo for Olivier de Kersauson (the largest racing trimaran ever built) and 148' Douce France (the largest luxury catamaran ever launched). VPLP are also proud to be responsible for half of the existing ORMA fleet of Formula I racing trimarans and the Lagoon series of catamarans built by Benétéau. They are very active in promoting the benefits of multihull design to the global market.



For further information:

www.iedmaster.it

www.trimarine.com