

2009 Activities Report



Otokar Centro®

METRIX®
c o m p o s i t e s

STRENGTH. SUPPORT. SOLUTIONS.



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Executive Letter

Dear friends and colleagues:

Although 2009 presented a challenging economic environment for most of us, at METYX Composites® we also succeeded in making great headway on a number of fronts.

Focus on Fundamentals

We experienced a relatively difficult start to the year followed by a gradual increase in business volume as the year progressed. Several of our strategic end markets enjoyed noteworthy growth in 2009, including wind energy and infrastructure. This helped to offset decline in some of the other industries we serve. As a result of our steadfast focus on the basic fundamentals of our business and our customers, we are happy to report that we closed 2009 with the most profitable quarter in our company's history.

Preparing for the Future

As we work to best serve our customers and deliver innovative solutions to their composites challenges, we rely on our core values to guide and shape our future. Keeping those high standards top of mind, 2009 was filled with productive activity, including new investments, product launches, and a significant expansion of our distributor network.

Carefully selected investment in state-of-the-art machinery and equipment has always been one of our top line business strategies. Holding true to that commitment, we made two sizeable investments in the second and third quarters to strengthen our position in the RTM market. In the fourth quarter, we also invested in a technologically advanced carbon reinforcement production line, which we view as a milestone in our effort to boost METYX Composites' presence in the specialty reinforcement market.

In terms of new product launches, we recently introduced to the marketplace an all-new version of METYCORE™ – METYCORE MAX™ – and already have several success stories from elite customers across industries and continents. We will continue to expand our METYCORE range of RTM reinforcements in 2010 and will begin sharing new product information with customers at the JEC Show in Paris. All of our products aim to enhance productivity and quality while delivering unique technological solutions to a wide variety of industry sectors including marine, automotive, construction, and wind energy, among others.

In 2009 we also continued to expand our distributor network to 10 new countries, including France, The United Kingdom, and Ireland. Our team is thrilled with the support and expertise of these new distributors. We look forward to developing their local markets and to attracting exciting projects from around the world.

Attitude of Gratitude

We hope you will take a moment to explore this report and learn more about our latest ventures. Addressing new and interesting challenges helps us to maintain a leading edge in our fast-paced, ever evolving industry. We welcome the opportunity to speak with you about your upcoming projects and are committed to contributing to your success. As always, we thank you, our valued customers and partners, for your ongoing support.

Best regards,



Ugur Ustunel
 VP, New Business Development
 METYX Composites



Tunc S. Ustunel
 Sales and Marketing Director
 METYX Composites

New Investments

METYX Composites continued to invest in state-of-the-art machinery in 2009 in order to strengthen the company's position in the RTM and specialty reinforcement markets. "We made four major investments that are all well aligned with our top line business strategies. This will enable us to offer more customized solutions across various industries," explained Ugur Ustunel, VP, New Business Development, METYX Composites.

RTM Technology

The first RTM investment was an advanced production line that produces custom non-woven products which complement METYCORE™, a leading RTM and L-RTM reinforcement range that has proven to be a tremendous success for METYX Composites' customers.

Mr. Ustunel continued, "This production line was a significant investment towards our future. Its capacity and capabilities exceed our current needs. However, since every growing sector increases its demands for customized products of consistent and high quality, we are taking a proactive approach so that we are ready in advance. As new players enter the global RTM market, the competition



MAX 4 Production Line

is getting fierce. The need to be vertically integrated has become necessary in order to stay ahead of the competition and achieve cost savings. This investment ensures that we can continue to provide our elite customer base with the high quality products and cost values to which they have become accustomed in working with us."

The second RTM investment was a production line that produces a unique three-dimensional fabric tailored to enriching METYX Composites' RTM and infusion product offerings. "METYX Composites is

dedicated to offering more customized products by pushing the envelope in the RTM technology. A true 3D fabric production line is very rare in our industry. We believe that revolutionary products like this are the result of our in-depth industry expertise and extensive experience. We are confident that these products will be of great benefit to our customers and will attract new projects from around the world," added Mr. Ustunel.

More information on new products will be available at the JEC Show in Paris, April 2010.

MAX 4 and Carbon Technology

METYX Composites also invested in the industry's first MAX 4 50-inch multi-axial reinforcement production line, produced by LIBA. "Our technical team was very impressed with the capabilities of the new and more robust LIBA machinery during a recent visit to Germany. A strategic investment decision followed a month later," stated Emre Batuhan, Director of Operations, METYX Composites.

METYX Composites additionally invested in carbon fabric production. "Increased demand for carbon reinforcements and a more widely available supply of raw materials were good indicators that our timing was right to invest in carbon reinforcement capacity. The investment in carbon reinforcement production capacity will shorten our response time to customers and also enable our sales team to offer more customized solutions to our distinguished customer base," concluded Mr. Batuhan.



Rendering of Carbon Production Hall

METYX Composites Second Biennial Composites Summit



Duratec® Presentation at the Composites Conference

METYX Composites organized and hosted its Second Biennial Composites Summit in Istanbul, Turkey June 1-6, 2009. The six-day summit is the most comprehensive event for high-performance composites in Turkey and amasses industry leaders from across the globe. This year a total of 140 participants and presenters represented 18 different countries.

Based on demand for more industry knowledge and expertise, the Second Biennial Composites Summit was expanded to include a three-day composites conference followed by a three-day RTM school, and participants were welcome to attend one or both parts. The presenters were

world-renowned companies and institutions, including 3B®, AKSA®, Alcan Airex®, Amorim®, Axel Plastics®, Cam Elyaf®, Composite Integration®, CTP-Sander®, Duratec®, Gaugler & Lutz®, High Modulus®, Huntsman®, KompoTek®, Kreysler and Associates, Inc., Lightweight Structures BV®, METYX Composites, Mulasan®, Nord Composites®, Polyworx®, Richmond Aerovac®, RMK Marine®, Roctool®, Scott Bader®, and Turkish Carbon Society/Istanbul Technical University. These experts demonstrated the latest composites techniques and discussed how to benefit from advancements in this rapidly evolving industry.

Composites Conference

Event Highlights:

- Vacuum infusion and bagging materials; technology and consultancy
- Carbon fiber production, carbon technology, and end-uses
- Advancements in sandwich materials
- Mold release and process aid additives
- Specialty resins and adhesives
- Rapid RTM, RTM technology, tooling, and equipment
- Core materials and kitting
- Structural engineering
- Composites in architecture and infrastructure
- Software aided composite production
- Benefits of ERP systems in composite workshops



Event Program



Composite Integration® Demonstration at the RTM School

RTM School

Event Highlights:

- Theoretical training on L-RTM technologies
- Mold construction and the benefits of closed molding
- Case studies detailing industrial applications of the technology
- Pattern design and preparation
- VRTM and RTM mold building
- Mold building materials (resins, gel coats, core materials, etc.)

All trainings and workshops were videotaped and offered to attendees as a set of DVDs to help facilitate learning and retention long after the event. There were also no restrictions on attendees photographing and videotaping the event.

METYX Composites Third Biennial Composites Summit will take place in Istanbul, Turkey June 2011.



Richmond Aerovac® Demonstration at the Composites Conference

Seminars Abroad

METYX Composites is committed to disseminating composites know-how in the form of formal and practical training both in Turkey and abroad. In addition to METYX Composites Second Biennial Composites held in June 2009 in Istanbul, Turkey, the METYX Composites team also presented at several prominent seminars abroad this year. These events were held by METYX Composites' distributors and their partners in various geographic regions. Presenters included industry leaders from across the globe.

C-L Sp.Z o.o.

Rzeszow, Poland
June 16, 2009

Seminar and demonstrations on RTM and infusion • 50 attendees

Polychem Group

Markt Allhau, Austria
September 14, 2009

Seminar on RTM and multiaxial fabrics; technical training of the group's European sales network • 10 attendees

C-L Sp.Z o.o. and Laminopol

Postomino, Poland
September 29-30, 2009

Seminar and demonstrations on RTM and infusion • 100 attendees

C-L Sp.Z o.o.

Warsaw, Poland
November 26, 2009

Seminars on RTM and infusion • 30 attendees



LRTM Demonstration



Foam Infusion Demonstration

Trade Shows

METYX Composites was an exhibitor at the following trade shows in 2009:

- **JEC Composites Show**
Paris, France – March 24-26, 2009
- **JEC Asia**
Singapore – October 14-16, 2009
- **METS**
Amsterdam, Holland – November 17-19, 2009



JEC 2009

The METYX Composites team looks forward to meeting you at the following trade shows in 2010:

- **JEC Composites Show**
Paris, France – April 13-15, 2010
- **KompoIST**
Istanbul, Turkey – June 10-13, 2010
- **HUSUM WindEnergy**
Husum, Germany – September 21-25, 2010
- **JEC Asia**
Singapore – October 12-14, 2010
- **Feiplar**
São Paulo, Brazil – November 10-12, 2010
- **METS**
Amsterdam, Holland – November 17-19, 2010
- **Polymeric Composites Symposium**
Izmir, Turkey – November 2010



JEC Asia 2009



METS 2009

New Distribution Product



Did you know?

Although cork is the bark of a living tree, it is actually a conglomeration of dead cells that are filled with a gas almost identical to the normal atmosphere.

Cork is made up of more gas (90 percent) than solid material, making its density very low.

Cork floats and does not rot. It is also fire resistant, compressible, and has low conductivity of heat and sound.

Cork Oak Tree with Stripped Cork Layers

CORECORK

CORECORK®, an Amorim Cork Composites® brand, is a range of core materials used in sandwich construction.

Rounding out METYX Composites' portfolio of core materials offerings is CORECORK. The CORECORK product range provides solutions for the most demanding composites applications, namely for the energy and marine industries, as well as for construction and sports and leisure products. It allows industries to build strong, light, and highly durable structures with lightweight core materials. The unique advantage of this product is that it is a 100 percent green core material that is both sustainable and recyclable,

bringing natural solutions to the composites industry. CORECORK is made from cork oak, a slow growing tree that lives for 200 years. The tree can be stripped of its cork 16 times during its lifetime. Within three months after each stripping, growth of the cork layer resumes.

Cork's unique characteristics:

- Lightness
- Elasticity
- Impermeability
- Low conductivity of heat, sound, and vibration
- Durability

Although the visual look of CORECORK is identical to some other cork products, its composition is completely different. Other cork products are agglomerated with polyurethane based binders (among others) and are made for applications that require only basic mechanical properties with no chemical compatibility. In contrast, with CORECORK, the agglomeration of the selected cork grains is produced under strict control in order to guarantee the total compatibility of CORECORK with all the resins used in this industry (polyester, vinylester, epoxy, phenolics, etc.). Cork granules are ground and sifted in various dimensions, and the density is carefully chosen for each application.



End Products Made with CORECORK



Our Partners

METYX Composites is proud to collaborate with the following world-renowned companies in order to provide customers with an outstanding selection of premium composites distribution products.

 <p>Continuous Filament Mat (Belgium)</p>	 <p>PVC Foams and PET Foams (Switzerland) Balsa Core Materials (USA)</p>	 <p>Amorim Cork Composites (Portugal)</p>
 <p>Mold Releases and Process Additives (USA)</p>	 <p>RTM Equipment and Tooling Materials (UK)</p>	 <p>Plug and Mold Repair and Surfacing Materials (USA)</p>
 <p>Resin/Chopper Systems and Gel Coat Systems (USA)</p>	 <p>Epoxy Systems (USA)</p>	 <p>Epoxy Systems (Switzerland)</p>
 <p>Tooling Resins and Gel Coats (France)</p>	 <p>Vacuum Infusion Materials and Technology Consulting (UK)</p>	 <p>Cleaners/Resin Separation Technology (Holland)</p>
 <p>Gel Coats, Resins, and Structural Adhesives (UK and UAE)</p>	 <p>PP Honeycomb Materials (Germany)</p>	

Our Distributors

Due to high demand for METYX Composites products worldwide, in 2009 METYX announced distribution in 10 new countries, increasing the global network of distributors to 21 countries.



Scott Bader is now the exclusive distributor of METYX Composites products in France, The United Kingdom, and Ireland. This new distribution agreement will provide essential infrastructure for the needs of these new markets, including improved access to METYX Composites prod-

ucts, streamlined logistics, and a wide range of customer services.

“We see France and The United Kingdom as very important markets for reinforced plastics. It is very exciting for the METYX Composites team to start working with some of the prestigious customers in these geographies through our longtime partner Scott Bader,” said Ugur Ustunel, VP, New Business Development, METYX Composites.

“Our cooperation began in 2005 when we worked with the Scott Bader teams in the United Kingdom and Dubai to develop the specialties market in Turkey. We shared common goals and business practices

as well as an excellent synergy from the start, all of which helped evolve our business relationship over time.

We are now thrilled about this new level of partnership with Scott Bader for some of the most dynamic composites markets in Europe,” stated Mr. Ustunel.

“There is no doubt that these new markets encompass several fierce competitors, but we are working on a distinct niche for the METYX Composites range with the local support from Scott Bader France” added Mr. Ustunel.

METYX Composites also partnered with several new distributors in Eastern Europe this year.

 <p>C-L Sp.Z o.o. • Poland</p>	 <p>Modest Marketing • United Arab Emirates</p>	 <p>Polyfiber • Iran</p>
 <p>Decatlo • Portugal</p>	 <p>Novia Kft. • Hungary</p>	 <p>Scott Bader • France, Ireland, and UK</p>
 <p>Lavender • Australia</p>	 <p>POLYchem Handelsges. m. b. H. • Austria POLYchem BG Ltd. • Bulgaria POLYchem d.o.o. • Bosnia, Croatia, Montenegro, Serbia, and Slovenia POLYchem composite CS s.r.o. • Czech Republic and Slovak Republic Polychem Chemicals srl • Romania</p>	 <p>Группа компаний «Единая Торговая Система» UTS • Russia</p>
 <p>LEDA • Italy</p>		

Water Tank Repair

Industrial Catalyst Composites®

A typical problem of many concrete structures built in the 1970's and early 1980's is concrete cancer. Due to different mechanisms and chemical reactions, the internal steel reinforcement can start to corrode and expand. In doing this, cracks and delaminations are created in the

concrete. It is important to fix these problems as early as possible, as it is a self accelerating process that eventually leads to steel reinforcement failure.

In many mining processes, thickeners are one of the fundamental items of equipment that can cause a mine-wide shutdown. Attached to a thickener is a clarified water tank that

acts as a collection point for clean water before it returns into the wash plant. When a clarified water tank or a thickener is off-line, large and extremely costly production losses are the result.

Industrial Catalyst Composites (ICC) of Australia had a client who at their coal mine identified extensive corrosion within the clarified wa-

ter tank and thickener. An independent engineering report confirmed that the thickener and clarified water tank had both reached end of design life. According to the report most traditional methods of repair would exceed the cost of replacement.

ICC selected their Sitefusion process combined with METYX Composites reinforcements (supplied locally by Lavender CE) to replace the corroded steel. Using ICC's Sitefusion process, an epoxy resin was infused under vacuum into the con-

crete structure. This method binds and seals all cracks and voids present in the concrete.

Once onsite, four personnel executed all required repairs to the clarified water tank in seven days. Since all work on the inside of the tank was performed during a scheduled shutdown and all repairs on the outside were executed while the plant was running, the plant was back up and running two days earlier than expected. This makes ICC's Sitefusion solution using METYX Composites mul-

ti-axial reinforcements truly unique as traditional methods had indicated demolition or rebuild times in excess of eight weeks.

Dr. Laurence Walker, Chief Operating Officer, ICC commented, "METYX Composites provided us with the high-performance glass fiber solution we needed for this challenging job. The knitted fiber stays together after cutting with minimal tow pullout which is necessary when working in an outdoor mining environment."



SiteFusion Process



Repaired Tank in Use

New Generation Minibus

Otokar®

METYX Composites is proud to have collaborated with Otokar, one of the top commercial and military automotive manufacturers in Turkey, in operation since 1963. As a Koc Group company, Otokar employs nearly 1,200 in its 552,000 square meter plant in Sakarya, Turkey.

The project was Otokar's Centro, a new generation minibus that is compact in design and highly maneuverable. It is the ideal solution for busy city centers and narrow streets. A spacious interior, durability, performance, efficiency, and low cost of ownership also add to its appeal as a modern, urban vehicle.

90 percent of the Centro's outer body parts are produced by RTM. Some of these parts are the driver door and its frame, the front and rear mask and bumpers, the roof cor-



Yusuf Fettahlioglu, Vehicle Body Design and Development Manager, Otokar

ner sections, the side walls, and the fenders, among others.

Erdogan Senkaya, Senior Engineer, Otokar explained, "We chose RTM as the manufacturing method for the new Centro because it was the best means by which to achieve our goals of improved surface quality and aesthetics; even thickness throughout the part geometry; increased throughput; and a repeatable process yielding high quality components."

"The driver door and driver door frame were certainly the most challenging components. We selected Polkima® for prototyping these demanding parts and METYX Composites as the high-performance reinforcement materials supplier. We could not be happier with the outcome. The vehicle was well received in the local market, and we look forward to working with METYX Composites products in our next generation vehicles," commented Yusuf Fettahlioglu, Vehicle Body Design and Development Manager, Otokar.

Sadik Asliturk, Operations Manager, Polkima stated, "It was rewarding work to prototype the components for this exciting new vehicle and to supply parts for series pro-

duction. RTM was the logical choice for Otokar since the tooling cost for the metal components far exceeded the R&D budget for this vehicle."

Mr. Asliturk also explained the benefits of RTM stating, "Similar components were never produced by RTM in Turkey. The process yielded measurable results and advantages. For example, the com-



Driver Door and Door Frame

posite tooling strategy and high-performance reinforcement materials resulted in an RTM door and door frame that were 40 percent lighter in weight and cost several million dollars less to produce than they would with metal tooling and metal materials. The anti-corrosive and rust-resistant properties of the RTM parts are another benefit. Additionally, the composite components have a superior surface finish, which allows Otokar to save on costs at the workshop level by eliminating the need for a second-

ary prime and paint operation after door assembly. The vehicle endured a 1,500,000 kilometer road test with no damage to the doors or any other composite components."

Tunc Ustunel, Sales and Marketing Director, METYX Composites added, "The Centro project was a good challenge for our team as well. A combination of our multiaxial reinforcements and the METYCORE

range were utilized for the door and other RTM components. The multifaceted tooling strategy for the door and door frame resulted in flawless parts and cost savings, which serve as proof that demanding components with complex geometries can be produced with great success using RTM. We look forward to working with Otokar on their future projects."



Otokar Centro

Modern Racing Yacht

One Design Yachting Ltd.®

The idea behind the Farr 25 OD was to create a modern racer – one that impresses advanced sailors with its excellent performance yet is easy enough to handle and operate for the intermediate, weekend sailor. This unique concept is very much in line with the core values of One Design Yachting Ltd., an Istanbul-based company that is dedicated to striking a balance between versatility and simplicity in all its yachts.



Model for Farr 25



Launch of Farr 25

At 25 feet, Farr 25 is spacious enough to fit two berths with sitting headroom and all required gear. Its low vertical center of gravity and proportional sail area relative to weight make it exceptionally well balanced compared to similar sized boats. The vessel's VPP analysis shows that its performance even matches bigger boats.

To ensure a light yet strong structure, Farr 25 is built with foam core and METYX Composites e-glass skins in an epoxy resin matrix. Each layer is vacuum-bagged separately. METYX Composites was chosen as the sole custom and standard e-glass reinforcement supplier at Design One Yachting. Dr. Sukru Sanus, President, One Design Yachting Ltd. commented, "Our designer, Farr Yacht Design®, frequently consulted with METYX Composites at the design stage of Farr 25 to make certain the e-glass was at the optimum level from a performance, cost, and availability perspective. METYX Composites also played an integral role in helping us select the right vacuum bagging supplies. They consulted on application of the materials as well, which made the production seamless for us."



Revolutionary Design

Numarine®

Istanbul-based performance motor yacht builder, Numarine, continues to impress the yachting world with its innovative designs, cutting-edge technology, and high production quality. This year Numarine delivered two new models to the marketplace: 78 Fly and 78 HT.

The 78's are exciting new additions to the Numarine range that cater to the European and Middle Eastern markets. They provide customers with a choice of two very different vessels with the same hull design, which has been crafted to glide pas-

sengers in comfort at high speed.

The 78 Fly is a luxurious yacht that is powerful in performance while sleek and sophisticated in design. The 78 HT features strength and agility, which is reflected in its revolutionary design echoing reptilian water creatures. The progressive design work for both motor yachts was the combined effort of Can Yalman, Tommaso Spadolini, and Numarine's in-house design team. The structural engineering was carried out by High Modulus.

METYX Composites is the supplier of all carbon, aramid and e-glass high-performance non-crimp reinforcements used throughout these yachts. All structural areas of the 78's are produced with the vacuum infusion method.

Omer Malaz, CEO, Numarine commented on collaborating with the METYX Composites team stating, "Over the past six years, METYX Composites has contributed to our success. They have been one of our key partners, providing us with top of the line service and superior technical support. Their efforts factor into the quality and performance of our yachts as well as our reputation and our bottom line."



78 Fly

Luxury and Performance

ARES Shipyard®

ARES Shipyard of Antalya, Turkey is dedicated to building advanced composite and metal boats that set trends in their classes. With high-tech production facilities, a highly skilled workforce, and extensive experience, the shipyard specializes in high quality custom-built yachts, series production, and refit projects.

Recently ARES Shipyard added a new model, ARES 53 Coupe, to their fleet under the brand ARES Yachts®. Designed by Italian design

firm GLOSS Design®, the 16.2 meter ARES 53 Coupe is an innovative yacht that balances performance, quality, safety and efficiency with an alluring aesthetic, spaciousness, and a wide range of amenities that deliver high comfort and true yachting pleasure.

In order to achieve weight savings without compromising structural integrity, ARES Shipyard chose to use METYX Composites multi-axial reinforcements combined with a foam core. The result is a lightweight

and simultaneously strong structure that is not only fuel efficient but also makes it one of the best performing boats in its class.

Kerim Kalafatoglu, President of ARES Shipyard remarked, "I am very happy with the products, service, and technical support from the METYX team. ARES 53 Coupe has been well received in the marketplace, and we thank METYX Composites and all our partners for their roles in the successful launch of our new model."



ARES 53 Coupe has 2 Volvo Penta D11 (670 HP x 2) and is able to cruise at 36 knots/hour.

Landing Craft



ADSB Landing Craft



Abu Dhabi Ship Building®

Abu Dhabi Ship Building (ADSB) specializes in the construction of highly complex naval ships that are primarily designed for defense operations, patrol tasks, and search missions by the coast guard, law enforcement, and fisheries.

Among the ADSB range are landing crafts used for amphibious support operations, vehicle transportation (tanks, trucks, APVs), accommodation for troops, and general supply missions.

ADSB recently added a 16 meter landing craft to this fleet. This new model was built for the Abu Dhabi Coast Guard using exclusively METYX Composites reinforced fabrics. The fast and highly maneuverable vessel features a ramp on each side of the bow that can be lowered to permit debarking after beaching.

"We are proud of contributing to a prestigious class of vehicles that serve to protect people and enforce law," commented Ugur Ustunel, VP, New Business Development, METYX Composites.



Turkish Water Polo Federation

Embracing the spirit of teamwork, sportsmanship, and competition, METYX Composites is a proud sponsor of the Turkish Water Polo Federation.

Ugur Ustunel, VP, New Business Development at METYX Composites is also the Director of National Teams for the Turkish Water Polo Federation and a former water polo player

himself. Describing his work with the Federation, Mr. Ustunel explained, "I have been working with the Youth, Junior, and Senior National Water Polo Teams for about one year, and it has been a very enjoyable experience. Turkish water polo teams are faced with a challenge beyond competition because water polo is not played at the professional level in

Turkey. Our teams not only strive to do well in competition, but they also aim to generate enthusiasm for water polo. With greater popularity comes more funding, further development of the sport within the country, and more potential for Turkish water polo players to be able to play this sport at the professional level in the future."



Senior Team Player at a World League Game in Istanbul

Turkish National Water Polo Teams recorded one of the best years in the federation's history by achieving the following successes in 2009 and early 2010:

Senior Team

June 2009:
Mithat Hantal
Tournament – 2nd Place

August 2009:
Ispolito Tournament – 1st Place

August 2009:
Tristar – 1st Place

September 2009:
Lugano, European B
Championship – 1st Place

January 2010:
Barkalow Cup – 1st Place

Junior Team

July 2009:
Diana Cup, Sofia – 1st Place

August 2009:
Umit Oguzoglu Cup – 2nd Place

March 2010:
Slowianka Cup – 1st Place



Recent Victory in Lugano, Switzerland

Another 2009 milestone was that the Senior Team was accepted to the World League organized by FINA, where the most accomplished international teams compete every year.

Last but not least, the Senior Team will have the opportunity to compete in the European A Cham-



Junior National Team

pionship for the first time in Turkey's history (provided that the team passes the qualification round in Istanbul April 30 – May 2, 2010). "Europe is well known as the motherland of water polo. Currently the top 10 out of 12 teams in the world are European. For this reason, many consider the European Championship to be the World Championship. This is also why our teams have worked so hard to enter the European A Championship organized by LEN (The European chapter of FINA), which only accepts 12 country teams," stated Mr. Ustunel.

Dokuz Eylul University Solar Powered Boat

Students at Dokuz Eylul University's Maritime School in Istanbul had the dream of creating a fully functional boat that runs on environmentally friendly energy sources. They wanted to build a vessel that met the technical specifications for competing in Solar Splash, a world championship of intercollegiate solar/electric boating. Their first goal, however, was to test their boat in a race in Izmir, Turkey as Dokuz Eylul University's Solar Boat Team.

The team consisted of 12 stu-

dents and equally as many advisors from Dokuz Eylul University's Maritime School, Istanbul Technical University Faculty of Naval Architecture, and Ege University Solar Energy Institute. The project was supported locally by boat builder M.A.T.[®], and METYX Composites was the supplier of the high-performance multi-axial reinforcements for the project. Together the team designed a boat that first converted solar energy into electricity with photovoltaic batteries. Energy accumulated in the bat-

teries then went to a DC motor to power the boat.

The team's vision came to fruition in July 2009 when their completed solar powered boat set sail in Izmir in front of a distinguished audience including the governor, the town mayor, as well as several university and maritime officials. The team now aspires to compete in the Solar Splash competition in the United States, the original inspiration for their inventive vessel.



Dokuz Eylul University Solar Powered Boat Team



Dokuz Eylul University's Solar Powered Boat

Marmara University Hydrogen Powered Vehicle



Marmara University Hydrogen Powered Vehicle

METYX Composites sponsored a student team from Marmara University and supplied them with reinforcement materials to build a hydrogen powered car with a composite body. The students built the vehicle for competition in the Shell Eco-marathon, an international competition that challenges participants to explore clean energy alternatives and sustainable forms of transportation. Hydrogen, Marmara University's hydrogen vehicle, has an optimized aerodynamic structure and lightweight composite body, which allow it to achieve minimum fuel consumption.

Sakarya University Solar Powered Vehicle



Sakarya University Solar Powered Vehicle

METYX Composites also sponsored Sakarya University Application of Advanced Technologies Society with reinforcement materials for the lightweight structure of a solar powered vehicle. The student team competed with their vehicle, Saguar, in Australia's Global Green Challenge 2009, the world's leading, cross continental showcase of the latest advances in solar, electric, hybrid, and alternative energy low emission vehicles. Dynamic teams from 38 universities representing 18 countries competed in the pioneering competition.

Offshore Boat Racing Team

METYX Composites was proud to sponsor for the third year the husband and wife team of Joseph and Berna Muhlbauer in the Turkish Offshore Championship and the World Offshore Championship.

The Muhlbauers compete as Team Miele in the U.I.M. Class 3 - 225 Offshore Powerboat Class. The ultimate aim of this class is to create a highly competitive racing dynamic by the use of similarly powered, strictly standard engines that are mounted on boats of the same weight but with different designs. The selection of propellers, the design differences of the boats, and the materials used, along with the abilities of the drivers are the determining factors in winning. All boats have the necessary safety features available today.

Team Miele had a spectacular 2009 racing season with their METYX Composites reinforced offshore boat, finishing second place in both the Turkish Offshore Championship and the World Championship. METYX Composites commends them on their performance and plans to continue to support their future racing endeavors.



Muhlbauers at Award Ceremony

Istanbul Race, August 2009



Team Miele Victory Lap



METYX Composites

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