

TEHCROSS NEWS

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Providing Right Solutions For Your Ships

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News 01. 2015 Exhibitions End in Great Success

The last exhibition in 2015, Marintec China 2015 was held from December 1st to 4th at SNIEC (Shanghai New International Expo Centre), China. This time TECHCROSS exhibited together with Chinese sales agent, Winkong Marine Engineering Co., Ltd.. As TECHCROSS and Winkong exhibited together, both had opportunities to meet more clients and built up reputable position at the exhibition.

TEHCROSS hosted a seminar with the theme of 'Installation of BWMS in the retrofit market' on December 2nd at the separated seminar room in the SNIEC. Many delegates from shipowners and shipyard have shown big interest in ECS (Electro-Cleen™ System) during presentation. Also, live presentation at TECHCROSS' stand was conducted 2 times a day for the clients who could not attend the seminar. Clients had an opportunity to win a prize after the presentation.

In spite of maritime industry's recession, Marintec China 2015 recorded the most number of 60,000 visitors in the exhibition's history.



▲ TECHCROSS' stand at Marintec China 2015



▲ TECHCROSS' "Installation of BWMS in the retrofit market" Seminar



**Merry Christmas &
Happy New Year**

We would like to thank for the opportunities
you have given to us in 2015.
Best wishes for the holidays and health & happiness
throughout the coming year.

Sincerely yours,
TEHCROSS

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News 02. ECS' HMI Innovation

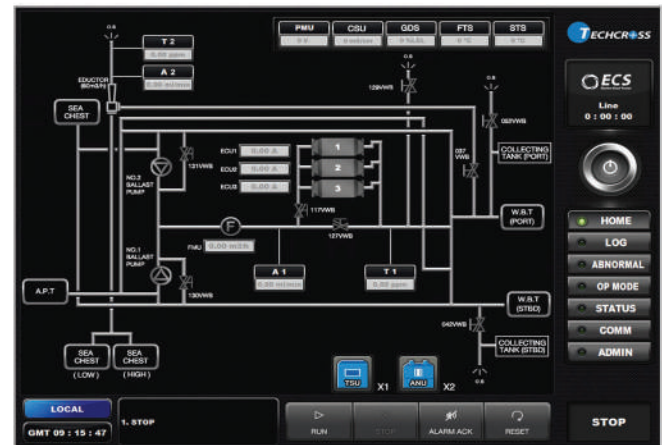
TECHCROSS' ballast water management system, ECS (Electro-Clean™ System) consists of ECU (Electro Chamber Unit), PDE (Power Distributor Equipment), ANU (Auto Neutralization Unit), TSU (TRO Sensor Unit) and CPC (Control PC). HMI (Human Machine Interface) installed on CPC to control and operate ECS and now HMI V2 is released to update the software user friendly.

Project of "development of HMI V2" has been launched from August, 2014 aiming for upgrading operation model in accordance with PNID. HMI V2 focuses user-centered ; not only performance improvement but convenience to operate monitor screen which applied PNID to assist the operator and ship crew. Also, HMI V2 integrated separate APT control system to main BWMS which made it possible to eliminate the additional CPC for APT.

Upon completion of this development, HMI V2 has been tested and passed FAT (Factory Acceptance Test) for Japanese owner's vessel on May 20th and on board

tested during commissioning at the Chinese shipyard at the end of October. As of December, 2 vessels completed application of HMI V2, 2 vessels are now processing.

HMI V2 was well appreciated with simple and more convenient UI design. So far 37 vessels are planned to install with HMI V2 in 2016.



News 03. ECS Granted Korean World Class Product Award 2015

ECS (Electro-Clean™ System), ballast water management system developed by TECHCROSS, was granted as a Korean World Class Product Award. MOTIE (Ministry of Trade, Industry and Energy) awarded this certification to excellent companies who achieve more than 5% of global market share with exports of minimum USD 5 million annually, ranked within the top 5 manufacturers in the international market size worth over USD 50 million.

TECHCROSS' ECS was selected in recognition of outstanding technology and expertise, also their commitment to Korea's exports and national competitiveness. Ceremony was held on December 16th at COEX with over 300 participants including governmental agencies and the delegates of selected companies.

ECS, the ballast water management system using electrolysis technology, takes no. 1 position in the ballast water management system industry after achieving of Korean Administration type approval in 2008. On November 24th, 2015, Indonesia ratified IMO BWM Convention and as entering into force is imminent, shipowners look for more reliable BWMS and ECS will be highly appreciated as a valuable product.



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News 04. TECHCROSS' Partners are Invited to New Factory

After relocation of factory facilities, TECHCROSS invited all manufacturing partners to Busan factory on November 26th, 2015.

Big support from various partners has been imperative to manufacture ECS (Electro-Clean™ System). TECHCROSS had the event to share the company's vision with gratitude and also wish to grow together with the long-term partnership.

At this event, over 60 delegates from 33 companies visited Busan factory and resolved to win over the recession of maritime and shipbuilding industry with mutual trust and cooperation.



News 05. Open Day of TECHCROSS' Busan Factory

TECHCROSS' employees' family were invited to TECHCROSS' Busan factory on December 12th, 2015. This event was kind of "open house" for celebrating the factory' establishment and relocation from Asan to Busan.

Families were watching the video which was broadcast by TV program first, Kyu-Won Park, CEO of TECHCROSS made welcome speech and James Lee, executive director of sales department introduced company profile with explanation of technology and industry market and introduction of factory facility was followed by Seong-Tae Kim, executive director of production department. Also recreation area for balloon art and face painting was popular for children of families. After presentation, all guests had a lunch buffet with pleasant event program with games and lucky draw.

There are many favorable comments from attendees ; "It was good time to know what he/she does in company" "I feel relieved and proud that my son/daughter worked at such a good company with vision", and employees ; "I'm so proud to work at TECHCROSS to see my family enjoyed the event and feel happy".



Electro-Clean™ System keeps our marine ecosystem safe and clean.

Visit us on Stand 3D39



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Regulation 01. Status of BWM Convention Ratification

Indonesia signed the IMO Ballast Water Management Convention on November 24th, one day after Morocco signed. Finland is also expected to sign the same Convention in the near future, too. Morocco's ratification on November 23rd brought the tonnage 32.93 percent.

Industry opinion is divided on whether Indonesia has sufficient tonnage, but if Finland ratified, it is most likely that the convention will finally enter into force.

Meanwhile, IMO secretary general Koji Sekimizu raised the possibility that its tonnage might over the 35 percent of the world tonnage that have ratified the convention, but stressed that this was subject to verification.

The BWM Convention shall enter into force 12 months after the date on which not less than 30 states and the combined merchant fleets of which constitute not less than 35% of the gross tonnages of the world's merchant fleets have ratified.

“TECHCROSS Reborn in 2016!”

