Bonus-SWERA
Sunken wreck environmental risk assessment

Chalmers University of Technology, Sweden;
Marine Systems Institute of the Tallinn University of Technology, Estonia;
Alfons Håkans Ltd, Finland;
Finnish Environment Institute, Finland
There are more than 8 500 sunken wrecks around the world with certain amount oil onboard. Also Baltic Sea waters hide numerous wrecks with oil onboard. Alone in the Finnish coastline exists hundreds of wrecks with oil onboard. Similarly Swedish government has carried out a study with Swedish Coast Guard and Chalmers University of Technology and mapped significant amount of wrecks with oil onboard. Sunken ships pose also environmental risk close to the Estonian coastline. Significant amount of these ships are already in such age, where corroded steel plates will let oil penetrate through the hull, thus causing a continuous source for pollution. Moreover, all wrecks have their own environmental characteristics which jointly with the wrecks own condition will cause confusion when evaluation risk of pollution.

SWERA, Sunken Wreck Environmental Risk Assessment is a new approach towards better understanding of the pollution threat of sunken ships. The new and innovative approach combines the theoretical risk assessment method developed at Chalmers University of Technology, Sweden with an oil removal risk tool by SYKE and Alfons Håkans Ltd. Preparing a joint wreck register will be coordinated by Tallinn Technical University. The novel salvage support tool will further advice technicians and salvage operators to design the safe and economically feasible way to work close to the sunken wreck, and to execute successful operations.
Hylkysukellus  2016  Wreck Diving

13.2.2016 seminaaritila 101, Helsingin Messuhalli

11:00  Seminaarin avaus
        Opening remarks, Immi Wallin, SubZone

11:05  Ajankohtaisia asiota hylkysuojelusta
        Topical issues on the wreck protection
        Maija Matikka, curator, National Board of Antiquities
        Riikka Alvik, researcher, National Board of Antiquities

11:30  SWERA – Sunken Wreck Environmental Risk Assessment (BONUS project, EU)
        Ship Wreck Classifications and case MS Volare
        Tarmo Käuts, PhD, Tallinn University of Technology, Marine Systems Institute
        VRAKA - Ship Wreck Risk Analysis
        Hanna Landquist, PhD Student, Chalmers University of Technology, Shipping and Marine
        Technology/GeoEngineering
        Innovative Salvage Tool Box for Oil Removal Operations
        Kari Rinne, Project Manager, Alfons Hakans
        SWERA Project related to HELCOM’s Submerged Working Group
        Jorma Rytkönen, LiTech., Marine Pollution Response Board R&D Manager, Finnish Environment Institute
        Discussion, SWERA Project Group Members

12:45  Mihin meriarkeologiaan kenttäyööt pyrkivät ja miten ja entä sitten?
        Harry Alopaeus

13:15  Kahvitauko – Coffee break

14:00  Lefort, battleship of the Imperial Russian Baltic Fleet
        Konstantin Bogdanov and
        Ivan Borovikov, Regards to ships of Great Victory -Project

15:15  Viimeisinä hylkylöytöijä Pohjoisella Itämerellä ja Suomenlahdella
        Latest wreck findings in the Northern Baltic Sea and Gulf of Finland
        Immi Wallin, SubZone

16:00  Seminaarin päätäminen
        Closing of the seminar
BONUS SWERA had a joint international seminar with WOW III (World of Wrecks) international Conference in Gothenburg Sweden in 12.-13 October 2015. You can find all the presentations of the WOW III from: http://www.lighthouse.nu/node/1142

- SWERA project’s webb page:
  - http://www.syke.fi/projects/swera
- Cover photos: Jouni Polkko/BADEWANNE