

CONS.A.R. NEWSLETTER

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FOR CONTACTS AND DEEPENINGS:

CONS.A.R.

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INTRODUCTION

This newsletter aims at disseminating in the shipping sector an updated contribution on the advances in the field of scientific research and technological development. The point of view of this newsletter is from Consar, a shipping body involved in the main European and national research programmes. Other news about training, services to the companies and about specialistic support to Confitarma are inserted in a synergic context complementary to research activities. This newsletter is a small contribution to raise awareness about the role and the weight that shipowners are able and have to play as active subjects in the process of technology evolution, environmental protection, safety and human resources development, to maintain high the competitive qualities of the national fleet. You can ask for deepening and information to the addresses you can find in the headline.

Giuseppe Balzano

EUROPEAN RESEARCH

EUROPEAN PROJECTS IN PROGRESS



FLAGSHIP

EUROPEAN FRAMEWORK FOR SAFE, EFFICIENT AND
ENVIRONMENTALLY-FRIENDLY SHIP OPERATIONS

For general information over the project: www.consar.net - www.flagship.be

Advancement: Mese 11 di 48 previsti

Cons.A.R. main activities: (S.P.D2 Task D.2.1. – S.P. C1 Task C.1.1):

T.D.2.1. SURVEY OVER THE RESISTANCE OF MARITIME STAFF TO THE INTRODUCTION OF ICT

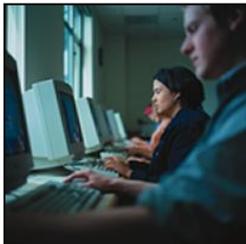
A survey relative to the potency of board technologies and over the resistances of the maritime staff to their introduction is in progress. This survey is developed in collaboration with european partners, among which:

Cardiff University (prestigious organization, expert in the work psychology), **ECSA** (European Community Shipowners Association), **KVNR**, **NSA**, **EMEC**, **CESA**, **SEMA2**, **NTUA** (Athens University) and some important shipping companies.



The study involves about 3000 seafarers with different parameters, and concerns the following topics:

- General informatics knowledge;
- Resistance to ICT introduction;
- Utility and potency of some on-board technologies;
- Perception of the on-board technological level and personal training;
- Ability using computer services (ex. Internet, e-mail...).



Useful data for the survey develop have been collected using a questionnaire, translated in different languages to allow a large diffusion. Now BMT (British Maritime Technology Ltd) is analyzing this data. This process will come to an end on January 2008. Confitarma has given its support during the step of questionnaires delviery.

You can find preliminary examination data, relative to a part of the survey developed over one of the italian companies taking part in the study, on our website www.consar.net

T.C.1.1 EMERGENCY MANAGEMENT

Proposal of this study is the identification and classification of the emergencies, and to define an operational standard for their management able to give an helpful decision-making support to the maritime staff. The research activity is coordinated by Marintek and BMT, with the involvement of Cons.A.R., Autronica Fire and Security AS, Minoan Lines. This study will give inputs to IMO and to the European Union normative system.



SAFETOW

STRATEGIC AID FOR ESCORT AND SALVAGE TUGS AT WORK

For general information over the project: www.consar.net - www.bmtproject.net

Advancement: Ended on 30th September 2007

Cons.A.R. main activities: The Safetow project has ended on 30th September 2007. The final meeting has been made on 28th September in Bruxelles, to evaluate the obtained results and program the practice utilization and their diffusion.

Objectives: Main objective was to give to the breakdown ships and rescue boats/puller commandants, a support tool for adopting real-time the opportune decisions, having on tap the information over the consequences of their actions, for optimize the rescue operations and minimize the risks deriving from the accident (environmental and pollution damage).

The project involves a manoeuvre data collect observational program. This data have been analyzed and used to realize the simulation software. The software has been installed and integrated with on-board systems, to give a real-time help and decision support.



Achieved Results:

- Definition of a full set of requirements for SAFETOW systems
- Definition of a full set of specifications for SAFETOW systems
- Implementation of a first set of prototypes
- Evaluation of a first set of prototypes
- Revised set of specifications for SAFETOW system
- Final implementation of the revised SAFETOW system

The objective of SAFETOW is to create a solution for effective and safe towing and manoeuvring solutions. The exploitation of such solution will be approached through direct exploitation of results by the end users and of the consortium of the system created in SAFETOW. The testing steps of the prototype have been conducted thanks to the MARNABI (a Naples company), who made available the M/n "LIA IEVOLI"

RESEARCH PROPOSAL

In the period between January/July 2007, Cons.A.R. has take part to the preparation of many research proposal, in collaboration with the scientific and research european community. Here you can see the set-off proposals:

AZIPILOT – BIOMARINE – BIOSHIP – CANALTRAIN – CRIBMAS – DIVEST – ECOSHIP – FILM – RAMSES – RISPECT – SAFEFISHING - SAIL BY WIRE – SOSVIEW – STIMUTECH - VESSELCON

The result of the proposal evaluation will be available on December 2007 / January 2008.

NATIONAL RESEARCH



ECOMOS PROJECT

ECOLOGIC COMPATIBILITY OF SHIPS TRADING THE MOTORWAYS OF THE SEA

In range of a better ecological protection, the new international laws who has taken effect, impose stricter restrictions over the oil fuel quality. In particular, the attention is dedicated to the maritime transportation effect over the marine environment, and over the opportune safeguard to reduce the funnel damaging emissions effects.

To this purpose, there are two action methods: structural (optimizing plant configuration) and systematic (working over the operating fluids).

ECOMOS propose to study the problems linked to the second method, acting in this two following directions:

- Upstream the combustion, through an adequate treatment of the used oil fuel
- Downstream the combustion process and the energetic recover, through an exhaust gas cleaning, before their emission

In particular, the project is dedicated to the short-range transportations, like the situation of the Motorways of the Sea, to minimize the impact of similar transportations over the ecosystem, transforming this ships exercise in something environmental-friendly.



The planning proposal aims to the realization of an integrated fall system: actually, on any ships, are installed (experimentally), some devices able to the reduction of nocive emissions (relative to just one pollutant). An integrated system will be able to knock down the three main pollutants (SO_x, NO_x and particulate).

The research aspires to the develop of a prototype of this integrated system, with perspective of an easy installation on new construction ships and on older ships, already in exercise over the Motorways of the sea.

This studies will be the first step to orientate the training toward the sector of the naval emissions knock down.

“INDUSTRIA 2015” INITIATIVE

Started on July 2007. Confitarma has taken part to the announcement for the “planning ideas”, launched by the “Economic Develop Ministry”. “GRIMALDI GROUP” has coordinated the part regarding the operators. The topics cover a wide set of priority in the maritime security areas, operating potency increase, security, logistics, new management support technologies. Cons.A.R. joins in and takes active part to the initiative.

The 2007 financial law, has created the “Fund for competitiveness and develop”. Through this fund, the industrial innovation project (PII) are financed, in range of five technological areas. One of this areas is relative to sustainable mobility.

During the first semester of 2007, the Minister of the economic develop has launched the process for elaborating the project proposal of industrial innovation in the technological area of the sustainable mobility. The first step was to start a consultation with this objective: define the contents, starting from the fixed technological-productive objectives in range of the technological area of the sustainable mobility. The elaborated proposal will be submitted to an examination by the Minister of the economic develop, who, with the other interested Ministers, and in accord with the Nation-Regions Conference, will adopt the industrial innovation project.

Afterwards the project will pass to the accomplishment of the actions detected in the project.

Among the priority topics detected for the consultation step, the most interesting one for the maritime transportation operators, is the topic nr.5: **Last sea mile, first land mile**. Over this topic has been activated the “**maritime technological platform**”, detecting the following priority (subprojects):

- **Info-mobility system**
- **Port/Ship interface system**
- **Port and Ship vehicle interface system**
- **Bureaucratic system**

Cons.A.R. has taken part of the team, together with Confitarm, “Grimaldi Group”, RINA, Fincantieri and other elements.



“RITMARE” INITIATIVE

RICERCA ITALIANA PER IL MARE

The maritime sector, in the actual national context of limitate increasing, is recording a big vivacity, demonstrating the ability of sustain the transformations imposed by the worldwide economy, through the realization of a companies network system and very flexible trading, and becoming the pivot of the national economic increasing



On the level of the European Union, the maritime sector, has developed a lot-year sinergies experience. Recently has been developed the Waterborne Technology Platform, a body gathering needs of all the involved stakeholders and the formulation of the technical synthesis necessary for support the strategic choices of the European Board. In 2006, in this context, has been elaborated the Waterborne Strategic Research Agenda (SRA), reference document for the accomplishment of the European Research Area (ERA). On the national level, it is increasing the need to systematize the resources used by the maritime sector in research, development and innovation.

With this intent, some operating objectives have been shared, like benchmark for the parallel interventions of the “Research and University Ministry”, “Economic

Develop Ministry”, “Environmental Ministry” and “Transportational Ministry”, qualified in the fields of research, develop and innovation for their specific sector.

The RITMARE initiative is arranged benchmarking this five technological areas (with intervention lines), resultant from a deep examination of the national maritime sector peculiarities:

1. Safety, security, survivability
2. Environmental sustainability
3. Comfort
4. Potency
5. Materials, processes and innovative components innovativi

In relation to the aforementioned topics, the RITMARE initiative proposal to activate a three-year investment.

CONSORTIUM SERVICES

ADVANCED MANAGEMENT SYSTEMS FOR THE SHIPPING



ISO 9001

QUALITY MANAGEMENT SYSTEM

Cons.A.R. continues the work of bringing a primary shipping company associated to the consortium to the implementation of the ISO 9001 system. Cons.a.r. will bring the process until the achievement of the certification.

231 SYSTEM (DLGS 231/01)

COMPANIES CONTROL, GOVERNMENT
AND ORGANIZATION MANAGEMENT
SYSTEM

Cons.A.R., on last October, in collaboration with a consultant company, has started the elaboration of the "231 System" for a prestigious Italian shipping company. This is one of the first times this system is applied to the shipping sector.



Normative notes:

The 231/2001 decree law brings in the organizations' administrative responsibility (on penal level, for crimes committed by someone working for the organization, and that take benefits to the same organization).

In case of crime, in addition of who has committed the same crime, also the organization who has taken benefits can be legally sued.

The organizations can have pecuniary or interdicting sanctions, with and punitive aims. A pecuniary sanction, like the seizure of the profit relative to the committed crime.

In case of absence (or inadequacy) of a suitable managerial system, the company will have certain responsibility over the committed crime.

Adopting the 231 system, the company defines and rules a business responsibility system, through the "risk assessment" methods. The use of the "231 System" does not warrant the company absolution in case of crime. It represents an exempting and, if it is effective, the organization responsibility will be excepted or attenuated.

A "231 System" must have:

- Risk Assessment;
- Procedures to avoiding crimes;
- Internal disciplinary system;
- Internal ethic code;
- Internal vigilance corps;
- Staff training.

In the shipping sector, the normative will be extended to other areas like:

- Working injuries;
- Working hygiene;
- Maritime pollution.

For more information over the law please visit: www.parlamento.it/leggi/deleghe/01231dl.htm
(in Italian language)

OTHER SERVICES



The normal activities for the provision of the following consortium services for the companies is proceeding:

Manuals and Procedures:

- S.O.P.E.P. plan (Shipboard Oil Pollution Emergency Plan)
- Garbage management plan (Amendment Reg. 2 and new Reg.9 – Annex V – Marpol)
- SMS Manual (ISM Code – IMO Resolution)
- Security plan (Art.6 – 271/99 decree law) – *New version – 2007 – With italian and international normative requirements*
- HACCP manual (155/97 decree law). *New version – 2007 – With italian and international normative requirements*
- Procedures for the notification and the ordinance of the on-board garbage in E.U. ports (2000/59/CE directive – 27th November 2000). Bilingual Version (Italian/English)
- Fire Training Manual and Booklets (Solas)

Moreover you can find this new services:

Elaboration and implementation of the management systems:

With the debate of security requirements, environmental normative and needs, security, operating complexity and technological developing, shipping companies needs to be endowed with certified, advanced and rational management tools. Now, the Cons.A.R. is able to offer to all the associated companies, the management systems planning and developing service at easier conditions. The consortium context where the services are developed, assures an optimization and homogenization of the systems and of the procedures, with benefits regarding the implementation costs' containment and the elaboration, auditing and certification steps quickness.



Here you can find all the offered services:

- Elaboration and implementation of Quality Management Systems (**ISO 9001**)
- Elaboration and implementation of Environmental Management System (**ISO 14001 – EMAS**)
- Elaboration and implementation of Company Management Systems for the security (**OHSAS 18001**)
- Elaboration and implementation of Etichs and Societal responsibility systems (**SA 8000 – Societal Balance – Environmental Balance – SCR-SC – Ethical Code**)
- Elaboration and implementation of companies control, government and organization management system (**231/01 decree law**)
- Technical assistance in Company Management Systems' develop and evolution, with the intent to satisfy the improvement objectives expected by TMSA (**Tanker Management & Self Assessment**)
- Elaboration and implementation of informative systems (**Management forms and corporate website**)

PUBLISHING HIGHLIGHTS

HISTORY OF THE NAVIGATION



Cons.A.R. proposes to the associated shipping companies, the purchase (at exclusive conditions) of a unique literary opera:



STORIA DELLA NAVIGAZIONE

HISTORY OF THE NAVIGATION

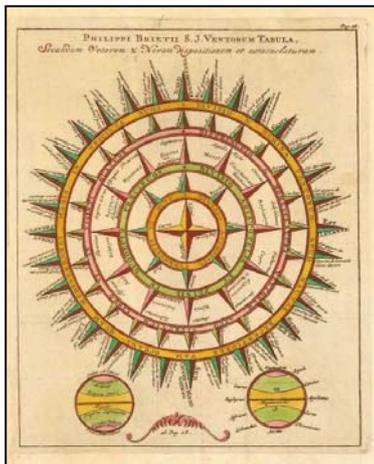
by *Silvestro Sannino*

Literary opera divided in two extensively illustrated books, shipped in an elegant box.

The market price of the opera is of € 100 + VAT + shipment costs.
Purchasing by means of Cons.A.R. you can make use of a 10% discount over the market price.

Moreover:

- For single orders higher than 20 copies, is possible to pick, in the place of the discount, a special copy, in limited edition;
- The books purchased by means of Cons.A.R. could receive, over demand, an autograph dedication made by the writer.



The box purchasing price is of € 90,00 + VAT + shipment costs

Payment via COD (Cash on Delivery)

You can find more information over the opera on our website
www.consar.net