



University of the Aegean

RISK MANAGEMENT ACROSS SECTORS

The Business School Amphitheater
Wednesday, 12 December 2018 @ 18:00

Risk and Uncertainty is present in all our activities. The goal is to turn uncertainty into risk and, then, manage risk so as to render it as low as reasonably possible. Nine speakers share their approaches on nine different issues.

Join them!



Successful Risk Management for major Projects,: Hamburg Harbour Authority “Westerweiterung” and Mittlerer Freihafen”

Risk identification, mitigation and finally risk allocation are actually the biggest challenge for major projects. With tens of thousands of tasks to organize, manage and build minor tasks, on the first view should bring the entire project to a standstill. Nowadays, the top risks are not related to construction and planning anymore. Top risks are the permit and approval processes, the interfaces with third parties, financing the project, stakeholders, the public and the own workforce. The presentation will show examples and methods on how risks could be identified and mitigated in detail.



Risk Assessment in Manufacturing Aeronautical Structures: The Case of Laser Beam Welding (LBW) of Stiffened Panels

Several technical risks regarding a possible production line at Hellenic Aerospace Industry (HAI) to manufacture aeronautical Laser Beam Welded (LBW) stiffened panels are presented along with the selected risk assessment methods. The risk cubes as well as contingency mitigation plans when manufacturing the B1 demonstrator (a typical 4-stringer stiffened flat panel) of the EU-Clean Sky funded within the ECO-Design framework “EXTRA-Laser” project are discussed..



Methodologies to assess the reliability & efficiency of RES exploitation offshore structures

New technologies for Renewable Energy Sources (RES) contribute to the reservation of the environment and, therefore, are of international interest. A framework applying methodologies that consider the multi-criteria nature for the development of offshore structures is presented focusing on issues of reliability and efficiency.



Oil Spill Risk Management

Risk can be defined as the possibility of an event occurring and the likely adverse effects on the people, facilities and the environment. Understanding the factors that increase the frequency and consequences of oil spills will lead to more effective allocation of resources for improved oil spill preparedness. In this presentation, the risk assessment and management framework of marine oil spills is discussed. High risk areas for marine biodiversity regarding tanker shipping routes in the Greek seas and especially Marine Protected Areas are estimated and visualized using GIS techniques.



The **E-S.A.V.E (ELECTRONIC SHORE AWARENESS OF VESSEL EMERGENCIES)** is a novel approach for managing risk during evolving shipping incidents; it uses the potential for direct real time communication that social networks provide, in combination with modern electronic tools and vessel traffic monitoring systems in order to minimize the probability of incidents evolving to accidents with a large environmental impact through any lack of information of stakeholder island/coastal populations.



Digital Innovation in Shipping: a New Strategic Orientation?

Digital transformation is one of the most topical issues in the shipping industry today. Academics and practitioners are exploring how digitization affects strategies and the operational practices of shipping companies, the way in which digital technologies allow for new value creation models and lead to changes in organizations. Which factors affect the adoption of digital technologies in shipping and what management practices make them effective? Is digital innovation a new strategic orientation in shipping associated with new risks and new forms of uncertainty?



A risk framework for cybersecurity in the maritime domain

As maritime industry increasingly depends on information and communications technology systems, ports, vessels and maritime facilities are eventually using cyber systems to lower costs, increase productivity and improve physical security. In doing so, new vulnerabilities are introduced, exploitable by new threats. These threats are active within cyberspace to gain intelligence, facilitate illegal activities and cause economic loss and physical damage. Attacks within or through cyberspace, which appeared in the last decade, increasingly gather momentum and at same time present the potential to develop to the primary threat for the maritime industry. An overall risk management system should be adopted, which will be coordinated with the existing security documents (ISPS) for an all hazards approach to this new maritime security problem.



Humanitarian and Disaster Relief logistics

The aim of the presentation is to present initially the various types of physical and man-kind disasters as well as the logistics operations that take place during preparedness and post response phase. Furthermore, a case study from Spain will be presented that deals with the evacuation of population and supply of goods in the shelter. This case study is part of a DG ECHO project where the University of the Aegean participated actively.



Demand Risk Allocation in Transport PPP projects: Theory vs Practice

Stemming from the basics on risk allocation the conditions for demand risk allocation to the private sector is stipulated and compared to practice across EU transport infrastructure projects. The reasons and the impact of misallocation are highlighted.










**The Department of Shipping, Trade and Transport
20 Years!**



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Likelihood	Very High	<p>Research Interests: PM, Risk Mng, Project Rating, Project Financing, Entrepreneurship, Business Models, Strategies. Experience: Over 30 years PM for private and public sectors in over 20 countries.</p>	 Athena Roumboutsos Associate Professor Project Management Dpt. Shipping, Trade and Transport		 Klaus Grewe Project Director, Wivenhoe UK	<p>Klaus have over 30 years experience of managing major projects successfully. He is currently advising as an practioner the OECD for the Suez Canal Economic Zone and Mexico New Airport , as well member of a working group private investment in Infrastructure. He is member of the German Government Comission Major Projects. He work in leading positions at projects like the Hamburg Harbour development, for 7 Years the London 2012 Olympic Games , Gotthard Base Tunnel , New Main Station Berlin, but also advising companies like Roche Diagnostics and Atlas Electronics.</p>
	High	 Maria Lambrou Associate Professor Electronic Entrepreneurship Dpt. Shipping, Trade and Transport	<p>Research interests: digital innovation. Experience: Development & management of digital technologies & applications.</p>	 Helen (Eleni) A. Thanopoulou Professor Operations Management of Shipping Companies Dpt. Shipping, Trade and Transport	<p>Research Interests: maritime crises, shipping competitiveness, uncertainty Posts: Lecturer/Senior Lecturer/ Postgraduate Course Director Chair of the Academic Assembly, member of Senate and of University Court Cardiff University; ex-Vice-Rector University of the Aegean; ex Head of Dpt. Shipping, Trade and Transport; IAME Council member; Honorary Visiting Professor at CASS Business School, City, University of London (2018-21).</p>	
	Average		 Nikitas Nikitakos Professor Shipping Informatics and Communications	<p>Int. patents: 3 on environment and renewable energies at sea. Awards: 2006 Lloyd's List on Maritime Technological Innovation; 2008 EU-DG Region Award for his work on isolated islands. He holds an ISPS, PMP and PMI-RPM certifications</p>		
	Low	 Vassilis Zeimpekis Assistant Professor Dpt. Financial & Management Engineering	<p>Research Interests: Supply Chain Management with emphasis on Transport/Logistics operations & Information Systems. Vice President of Operations at the BoD of the Hellenic Logistics Association (EEL); logistics and transport expert in the Hellenic Committee for Logistics Competitiveness and in the United Nations (UNECE).</p>	 Anna Maria Kotrikla Assistant Professor Environmental Technology and Management for Shipping and Transport Dpt. Shipping, Trade and Transport	<p>Research Interests: the effects of shipping and transport on the marine and atmospheric environment; energy sources and the environmental footprint of transport; design, implementation and evaluation of policies that promote the sustainability of transport systems.</p>	
	Very Low		 Nikolaos Alexopoulos Assistant Professor Dpt. Financial & Management Engineering	<p>Research Interests: Experimental Mechanics Board membership: Directors of the Greek Society of Experimental Mechanics of Materials (GSEMM); EUROpean ASsociation for Experimental Mechanics (EURASEM).</p>	 Ioannis Dagkinis Research & Teaching Assistant Dpt. Shipping, Trade and Transport	<p>Experience: Chief Engineer in merchant marine vessels, employed on seagoing tankers. PhD holder.</p>
		Very Low	Low	Average	High	Very High

Impact

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