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ABSTRACT FRAME / CADRE DE RESUME

Topic No. / Sujet n°		Proposed topic / Sujet proposé	Autonomous shipping
Abstract Title	Human Factors and Autonomous Ships: Interaction between Manned and Unmanned Ships; and the role of VTS		
Authors' Details	Thomas Porathe, NTNU, Norwegian University of Science and Technology		
Abstract Text	<p>Recently there has been a growing interest in autonomous, and potentially unmanned, shipping. In some countries, a substantial amount of research and development has gone into this area. Norway is one of them. The hypothesis has been a cheaper, safer and more efficient shipping. The focus has been on technological development and the automatic ship and there has been a tendency to forget that although the vessel potentially might become unmanned, there will be plenty of humans in such a future unmanned system: in shore based monitoring centers, in maintenance, and in manned ships and crafts in the maritime environment. Is there a risk that the safety gains potentially achieved by removing "human error" together with the traditional bridge, might be lost in new types of "human error" in the interaction between manned and unmanned ships?</p> <p>Because of the great asset value in a ship, no one expects ships to be fully autonomous like cars, but the expectation is that there will some form of Shore Control Centers (SCC) that monitors and has the ability to intervene if technology fails. Will these Shore Control Centers fall within the IALA realm, and how will they interact with the traditional VTS? Or will the VTS develop into a SCC?</p> <p>These and other human factor aspects will be discussed in this paper with a background in some passed and ongoing autonomous ship projects in Norway.</p>		

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