Autonomous Ships, Vehicles, and Shipping

MODERATOR

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MARINE BOARD VICE CHAIR

Autonomous Ships, Vehicles, and Shipping

- Emerging technology, economic factors causing maritime community to consider autonomous ships and vehicles
 - Primarily guided by automated on-board decision systems
 - Controlled by remote operator
- Potential to reduce overall acquisition cost and operating overhead, reduce environmental impacts, address mariner shortages, create more competitive freight rates or enhance mission effectiveness
- Unlike Europe, U.S. has no integrated strategy and implementation plans representing a consensus of industry, society, public authorities

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Automotive Autonomy State-of-the-Art

Dr. James R. Sayer, University of Michigan Transportation Research Institute

Technologist's Perspective

Dr. Thomas Porathe, Norwegian Technical University of Science

Ship Operator's Perspective

Captain George A. Quick, International Organization of Masters, Mates & Pilots

Ship Regulator's Perspective

Captain Scott Smith, U.S. Coast Guard

Legal Perspective

Mr. Sean T. Pribyl, Blank Rome LLP

Autonomous Ships, Vehicles, and Shipping

Framing Questions

Technical

Operational

Regulatory

Ethical, Economic, and Social

Legal

Marine Insurance

Security

Navigation and Positional Assurance

Traffic Management

Human factors

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Framing Questions

	Technical	Operational	Regulatory	Ethical, Economic, and Social	Legal	Marine Insurance	Security	Navigation and Positional Assurance	Traffic Manage ment	Human Factors
Automotive	Topics related to autonomy in the automotive industry to be selected by speaker.									
Perspective										
Technologist's	Х		Х					Х		Х
Perspective										
Ship Operator's		х					Х		Х	v
Perspective							^		^	^
Ship Regulator's			Х	Х	Х					
Perspective										
Legal				Х	v	Х				
Perspective				^	^	^				

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Marine Board could assist sponsor agencies by:

- Focusing attention on issues associated with autonomy as relate to public and private entities in maritime space, developing priorities
- 2. Hosting workshop with broad participation by maritime and offshore industry, government agencies, and academia to:
 - Identify current research and development programs
 - Discuss contribution to larger autonomy effort
 - Identify gaps or needs unique or particularly relevant to maritime community
 - Address how such needs can be achieved