WEDNESDAY, NOVEMBER 17, 2021 PANEL ONE

Dr. Bo Cerup-Simonsen, Chief Executive Officer at Mærsk Mc-Kinney Møller Center for Zero Carbon Shipping



Dr. Bo Cerup-Simonsen graduated as an MSc in Naval Architecture and Offshore Engineering form the Technical University of Denmark (DTU) in 1993. In 1997 he got his PhD degree, also in Naval Architecture and Offshore Engineering from DTU where he worked as an Associate Professor until 2003. He earned an MBA degree in Shipping and Logistics from Copenhagen Business School in 2008.

In 2003 Bo joined Det Norske Veritas where he was heading Maritime Technical Consultancy until 2007. From 2008, Bo was Vice President, Head of Maersk Maritime Technology in AP Moller Maersk A/S, where he was responsible for Ship Innovation, Newbuilding, Technical Consultancy, Vessel Performance Monitoring and Regulatory Affairs. In this position his responsibility covered numerous technical matters of the ships ranging from the very initial

design and specification of new and advanced ships to be built, to optimizing the sailing performance from a technical point of view of the ships already in operation. His responsibilities also included development and testing of new and innovative equipment and designs for ships.

Bo came back to DTU as director of The Danish Hydrocarbon Research and Technology Centre, which was opened at DTU in September 2014. In October 2018 Bo left DTU for the position of Vice President of Newbuild Strategy and Portfolio at Royal Caribbean Cruises. In February 2020 Bo returned to Denmark and to Maersk. He is now CEO in the Mærsk Mc-Kinney Møller Center for Zero Carbon Shipping.

MR. BUD DARR, EXECUTIVE VICE PRESIDENT, MARITIME POLICY AND GOVERNMENT AFFAIRS AT MSC GROUP



An experienced global maritime leader in the areas of policy, government, and related law, Bud Darr is Executive Vice President, Maritime Policy and Government Affairs of MSC Group.

Bud began his education in Submarine Nuclear Engineering and later obtained his formal undergraduate education at the US Merchant Marine Academy, where he was trained as a Deck Officer. During his subsequent career with the US Coast Guard, he studied law at the George Washington University Law School. He most recently led the Maritime Policy efforts of the Cruise Lines International Association prior to joining the MSC Group in 2017.

Today, Bud is engaged across MSC's Cargo and Passenger divisions, developing the company's central Government Affairs function, based at the Group's headquarters in Geneva.

He serves on the Boards for the UK Chamber of Shipping, BIMCO, International Chamber of Shipping, Liberian Shipowners' Council, and Society for Gas as a Marine Fuel

HEATHER WOOD, US DIRECTOR OF SUSTAINABILITY, CMA CGM



Heather Wood joined CMA CGM as the U.S. Director, Sustainability in April 2021. With over 25 years' experience, Heather leads the Group's Sustainability strategy for People, Planet, and Responsible Trade in the U.S. and Canada. Prior to joining CMA CGM, Ms. Wood provided management consulting services on sustainability to Norfolk Southern Railroad, and the ports of Los Angeles, Long Beach, Houston, North Carolina, Massachusetts, and Virginia.

Ms. Wood's career in maritime sustainability evolved at The Port of Virginia, the third largest container port complex on the U.S. East Coast. As Vice President of Sustainability,

Ms. Wood developed and directed sustainability strategy, policy, and programming for the Port and was responsible for environmental performance, public outreach, and regulatory affairs related to port operations. She served as the Port's representative and consultant on international and national issues and policies related to sustainability, transportation, navigation, and environment.

In 2019, she was re-appointed by Governor Ralph Northam to a third four-year term and elected chairman of the Commonwealth of Virginia's State Water Control Board. Ms. Wood is a McDonnell CPE, Certified Port Executive and has served as Chairman of the Environment Committees for the American Association of Port Authorities and the Virginia Maritime Association.

Heather holds a Master of Business Administration from the College of William and Mary, and Master of Arts in Marine Affairs from the University of Virginia. She is an avid college basketball fan, and she welcomes any opportunity to get out on the water whether it be a containership, sailboat, or a paddle board. Heather resides in Norfolk, VA with a charismatic English Springer Spaniel, named Albert.

JENNIFER CARPENTER, PRESIDENT AND CEO, AMERICAN WATERWAYS OPERATORS



Jennifer A. Carpenter serves as President & CEO of The American Waterways Operators (AWO), the national trade association representing the inland and coastal tugboat, towboat and barge industry. Carpenter joined AWO in August 1990 and became President & CEO in January 2020. Before assuming her current position, she worked her way up the hawsepipe from Government Affairs Assistant to Executive Vice President & Chief Operating Officer, holding a series of progressively responsible positions including Manager-Regulatory Issues, Director-Government Affairs, Vice President-Government Affairs, Senior Vice President-Government Affairs & Policy Analysis, Senior Vice President-National Advocacy, and Executive Vice President. She served for 13 years as a member of the congressionally authorized Towing Safety Advisory Committee. She has received two Meritorious Public

Service Awards and a Public Service Commendation from the U.S. Coast Guard for her contributions to the Towing Safety Advisory Committee and the Coast Guard-AWO Safety Partnership.

PANEL TWO

PATRICK VERHOEVEN, MANAGING DIRECTOR, INTERNATIONAL ASSOCIATION OF PORTS AND HARBORS (IAPH)



Patrick Verhoeven is managing director of the International Association of Ports and Harbors (IAPH), responsible for policy and strategy. The organisation represents about 170 ports and some 140 port-related businesses in 90 countries worldwide. Prior to joining IAPH in 2017, Patrick spent twenty-four years in Brussels representing the interests of shipowners, port authorities, terminal operators and ship agents at EU level. He started his career in 1991 with the Antwerp-based ship agent Grisar & Velge.

In 2019, Patrick joined the supervisory board of the Ukrainian Sea Ports Authority as deputy chairman. Patrick holds a PhD in applied economics and a bachelor's in law from the

University of Antwerp. He is assistant professor at the university's Centre for Maritime and Air Transport Management (C-MAT). Patrick lives in Antwerp with his wife and three children

ALISA PRASKOVICH, VICE PRESIDANT OF SUSTAINABILITY, CRAWLEY MARITIME CORPORATION



Alisa Praskovich orchestrates Crowley's environmental, social responsibility and governance (ESG) activities across its diverse business offerings and operations globally. This includes working with the company's industry partners and customers to develop innovative solutions and actions that reduce emissions and carbon impacts associated with greenhouse gases.

Alisa previously served as senior director for safety, quality, and sustainability and joined Crowley in 2016 as a manager of operations integrity. She completed a 20-year U.S. Coast Guard career – predominately in maritime safety – and earned a bachelor's degree in biology from Eckerd College, as well as a master's degree in marine affairs from the University of Washington. Praskovich also has an executive leadership development certificate from the University of North Florida.

STERGIOS STAMOPOULOS, MANAGER, AMERICAN BUREAU OF SHIPPING



Stergios Stamopoulos is an experienced professional in the maritime industry with an in-depth knowledge relating to ship structures, statutory requirements, human factors, and energy efficiency of ships.

He joined ABS in 2009 as an engineer, and has worked in Greece, South Korea, and the USA on a variety of different roles including engineering approval, human factors, and sustainability.

He was recently promoted to Manager of the ABS Houston Sustainability Center leading the efforts in the USA related to sustainability related activities.

Prior to joining ABS, he was worked for another Classification Society as well as a Ship Design firm.

Stergios graduated from the University of Glasgow in the UK with a Bachelor's degree in Naval Architecture and Ocean Engineering. He also earned a Master of Science degree in Marine Engineering and a Master of Philosophy degree in Marine Technology from the University of Newcastle in the UK.

CAPT CHAD CARY, OFFICE OF MARINE AND AVIATION OPERATIONS, NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA)



CAPT Chad M. Cary has proudly served NOAA and the Nation for over 20 years. He is currently supporting the duties of the Deputy Director, OMAO Operations and NOAA Corps where he believes great culture leads to great operations. CAPT Cary's command philosophy is to foster a safe work environment, form an inclusive charge, empower the experts, have each other's backs and to have a little fun along the way.

CAPT Cary's balanced career includes nine years of sea time and eleven years of shore time. He has previous underway command experience aboard NOAA Ships Reuben Lasker, Henry B. Bigelow, Nancy Foster and John N. Cobb. As the Commanding Officer of Reuben Lasker he led

the team to conduct operations from Mexico to Canada utilizing a modern suite of instrumentation to better understand the Eastern North Pacific ecosystem. Additional diverse career experiences stem from serving as the Director, Commissioned Personnel Center and assignments in NOAA Fisheries, National Weather Service, and NOAA Headquarters.

He is an Alaska native, born in Cordova and raised in Juneau. He earned a B.S. in Environmental Science with an emphasis in marine sciences from the University of North Carolina at Chapel Hill before joining the NOAA Corps. Committed to continuous learning, CAPT Cary has since earned a M.S. in Geography from Portland State University and a Graduate Certificate in Legislative Studies from Georgetown University. CAPT Cary is a graduate of NOAA's Leadership Competencies Development Program where he completed a detail with the U.S.C.G. Office of Cutter Forces that advanced a key NOAA facility initiative and built a partnership alliance with the U.S.C.G and U.S. Navy that continues today. He is also committed to NOAA's future leaders where he serves formally and informally as a mentor.

Captain Cary is accompanied on this adventure by his wife, Dayna, and their three children. They are active in their community where they engage in school activities and sports where CAPT Cary volunteers as a coach whenever possible. In his spare time he enjoys almost any outdoor pursuit especially exploring new trails.

Notable citations include one Department of Commerce Gold Medal for Hurricane Support, two Department of Commerce Bronze Medals for river forecasting during a record flood event in the Pacific Northwest and for NOAA Ship John N. Cobb's outstanding safety record and one NOAA Corps Meritorious Service Medal.

PANEL THREE

JEFFREY LANTZ, DIRECTOR OF COMMERCIAL REGULATIONS AND STANDARDS, U.S. COAST GUARD



Jeff Lantz is Director, Commercial Regulations and Standards for the Coast Guard's Assistant Commandant for Marine Safety, Security and Stewardship. His responsibilities include the development of U.S. national maritime safety and environmental protection regulations and policies and overseeing U.S. initiatives in the development of international maritime safety, security and environmental protection standards.

In addition, Mr. Lantz serves as the U.S. Head of Delegation to the International Maritime Organization (IMO)'s Maritime Safety Committee, Marine Environment Protection Committee, and various sub-committees. In this position, he represents the US position on numerous regulatory issues within the international commercial maritime industry including piracy and maritime

security, green house gas emissions, human element, ballast water management, and passenger vessel safety.

Mr. Lantz retired from active duty with the Coast Guard at the rank of Captain in 2003 after numerous assignments in marine safety, including Chief of the Office of Design and Engineering Standards and Commanding Officer of the Marine Safety Center. He graduated from the Coast Guard Academy in 1974 and the University of Michigan in 1978, where he obtained advanced degrees in Naval Architecture and Marine Engineering and in Mechanical Engineering.

MICHAEL CARTER, ASSOCIATE ADMINISTRATOR FOR ENVIRONMENT AND COMPLIANCE, U.S. MARITIME ADMINISTRATION



Michael Carter is the Associate Administrator for Environment and Compliance at the Department of Transportation, Maritime Administration (MARAD). In that capacity he provides oversight to the Office of Environment, Office of Safety and the Office of Maritime Security.

Mr. Carter also continues to serve as the Director of the Office of Environment where, for over 24 years, he has provided leadership for the Agency's environmental compliance responsibilities and has shaped MARAD's program to assist maritime transportation stakeholders in addressing key environmental challenges and support maritime transportation innovation. Mr. Carter is

responsible for implementing the Agency's Maritime Environmental and Technical Assistance (META) Program, which focuses on collaborative research and technology testing, evaluation, and demonstration specific to addressing the unique characteristic of maritime operations. He and his staff maintain a strong international presence on these same issues serving in various capacities on the US Delegation to the IMO Marine Environment Protection Committee (MEPC) and the International Organization of Standardization (ISO).

Before joining the Maritime Administration in August 1995, Mr. Carter was in a private environmental law practice. He received his law degree from Catholic University in 1985 and his undergraduate degree in Forestry and Wildlife Management from Virginia Polytechnic Institute and State University in 1982.

In 2014, Mike was appointed by President Obama to the role of Deputy Administrator at the Maritime Administration until early in 2017 when he took the position of Superintendent at the Texas A&M Maritime Academy. Mike served there until 2019 when he also retired from Navy service at the rank of Captain.

Most recently, Mike served as the maritime subject matter expert to the Biden Administration's transition team. He was responsible for assessing activities at the Maritime Administration and the Federal Maritime Commission. Mike is a proud graduate of the USMMA (1979), the University of Baltimore (1995), and Dowling College (1999).

MICHAEL BERUBE, DEPUTY ASSISTANT SECRETARY FOR SUSTAINABLE TRANSPORTATION, U.S. DEPARTMENT OF ENERGY



Michael Berube is the Deputy Assistant Secretary for Sustainable Transportation in the Office of Energy Efficiency and Renewable Energy. In this role, he oversees EERE's Sustainable Transportation sector, which includes the Vehicle, Hydrogen and Fuel Cell, and Bioenergy Technologies offices. This portfolio focuses on research and development to increase access to domestic, clean transportation fuels and improve the energy efficiency, convenience, and affordability of transporting people and goods to support U.S. energy security, economic productivity and competitiveness.

Previously, he led the Vehicle Technologies Office. In this post, he led an array of activities that help reduce America's dependence on foreign oil and secure a clean energy future. The

Vehicle Technologies Office supports about \$300 million in annual research funding for hybrid drivetrains, advanced batteries, lightweight materials, advanced combustion and fuels, vehicle systems integration, and Clean Cities deployment activities.

He brings more than 25 years of experience in the automotive industry to his new EERE post, specifically in the areas of environmental compliance, energy and safety policy, product development and marketing. He has worked on a broad range of electric vehicle, connected car and advanced powertrain initiatives. Berube also led multiple environmental and energy initiatives within the Chrysler Corporation.

Berube has a Bachelor of Science degree in civil engineering from MIT. He later returned to MIT as both a graduate student and researcher where he received a master's degree in the Technology and Policy Program and a master's degree from the Sloan School of Management. He was recognized for his early work on corporate sustainability and led research for the MIT International Motor Vehicle Program. In May of 2020, Berube briefly served as the Acting Director of the Bioenergy Technologies Office.

H. Scott Coombe, Program Officer, Power & Energy Science and Technology, Office of Naval Research



H. Scott Coombe is a program officer and the core competency lead for Naval Power Systems at the Office of Naval Research. His research interests include Naval Energy Resilience, Naval Superconducting Science & Technology, and Subsea & Seabed Power. He is the Navy Steering Group representative to the Interagency Advanced Power Group (IAPG), he leads a TTCP Naval Power & Energy Key Technology Area, and he serves as chair of a NATO Applied Vehicle Technology (AVT) Mechanical Systems, Structures, and Materials (TCMSM) Technical Committee. He is a member of the American Society of Mechanical Engineers, a licensed professional engineer in Virginia with B.S. and M.E. degrees from Virginia Tech and a doctorate in mechanical engineering from The Catholic University of America.

KARL SIMON, DIRECTOR, TRANSPORTATION AND CLIMATE DIVISION, U.S. ENVIRONMENTAL PROTECTION AGENCY



Mr. Simon is the Director of the Transportation and Climate Division of the Office of Transportation and Air Quality at the U.S. Environmental Protection Agency. His portfolio includes work with voluntary programs like Smartway, international trade issues, renewable fuels, and modeling and forecasting of mobile source emissions trends. Hepreviously served as Director of the Compliance and Innovative Strategies Division. Previously, he was the Assistant Director for the Office, worked in the mobile source recall branch, and the submarine construction and design division at Newport News Ship building and Dry Dock Company. Mr. Simon holds a Bachelor of Science in Aerospace Engineering from the University of Notre Dame, a law degree from the George Mason University School of Law, and a Masters in Environmental Law from George Washington University.

ANDREW RAKESTRAW, OFFICE OF SPECIAL PRESIDENTIAL ENVOY FOR CLIMATE



Andrew Rakestraw serves in the Office of Special Presidential Envoy for Climate. He was previously a Foreign Affairs Officer in the Office of Global Change at the U.S. Department of State. He joined the Department of State in 2013. He is the lead U.S. negotiator on transparency issues at the UN Framework Convention on Climate Change and also leads negotiations at the International Maritime Organization related to greenhouse gas emissions. He received a BA in international studies at the University of Washington and a JD from University of California, Hastings College of Law.

THURSDAY, NOVEMBER 18, 2021

SPONSOR-LIASION REPORT OUT

CDR Laura Springer, U.S. Coast Guard



Commander Laura Springer serves as the Waterways Policy Division Chief at Coast Guard Headquarters. She is an experienced officer with a demonstrated history of working with public and private sector maritime stakeholders. CDR Springer is skilled in government, operational planning, risk assessment, leadership, and data analysis. She is a strong operations professional with a Master of Science - MS focused in Logistics, Materials, and Supply Chain Management from University of Southern California.

KEVIN KNIGHT, U.S. ARMY CORPS OF ENGINEERS



Kevin Knight is an Economist with the US Army Corps of Engineers, Institute for Water Resources (IWR). Some of Kevin's responsibilities include developing software, handbooks and tools for evaluating water resource projects. In addition, Kevin instructs several planning courses throughout the Corps and provides support to the National Academies' Transportation Research Board and the interagency Committee on the Maritime Transportation System.

Prior to joining IWR in 2008, Kevin worked for the Corps' San Francisco District for nearly 13 years, serving as Team Leader for the District's Economics Branch as well as a specialist on deep draft navigation matters. Kevin received his undergraduate degree in Economics

and a Master's in Public Administration from the State University of New York.

In his spare time, Kevin enjoys politics, trivia, playing volleyball, weightlifting, video games, theater and reality television shows. Kevin and his wife Tricia live in Alexandria, Virginia along with their sons Christopher and Max.

Dr. Thomas Fu, Office of Naval Research



Dr. Thomas Fu is the head of the Mission Capable, Persistent and Survivable Naval Platforms Department of the Office of Naval Research (ONR). As department head, Dr. Fu oversees a broad range of S&T programs for Navy and Marine Corps platforms and undersea weapons, with an annual budget of over \$500 million per year.

Dr. Fu is also the acting director of the Advanced Naval Platforms Division within the Mission Capable, Persistent and Survivable Naval Platforms Department. The division provides technologically superior capabilities for naval platforms through investments in basic and applied research and advanced technology development programs for advanced power systems, acoustic and non-acoustic signatures, structural reliability and lifecycle

management, hydrodynamic performance, advanced propulsors, metamaterials, thermal system management, and platform autonomy and control, as well as the National Naval Responsibility for Naval Engineering.

Dr. Fu entered the Senior Executive Service in September 2015. He began his federal civilian service in 1988 at the Naval Surface Warfare Center, Carderock Division, working part-time as a mechanical engineer while in graduate school. After receiving his doctorate in mechanical engineering in 1993, he became a full-time research engineer. In 2001, Dr. Fu was promoted to senior research engineer and was named Head of the Resistance & Propulsion Division in 2008. In 2010, he became Deputy Head of the Hydromechanics Department, which became the Naval Architecture & Engineering Department in 2012. The department—then comprised of approximately 650 engineers, scientists and other personnel—served as the Navy's technical capability for surface- and undersea-vehicle hull forms and propulsors. Dr. Fu provided day-to-day operational and technical management, as well as served as the department's director of Science & Technology and Naval Engineering Education Center program manager. In October 2014, Dr. Fu became a program officer in the Sea Warfare and Weapons Department at ONR.

Dr. Fu has authored over 140 technical publications. He earned a Bachelor of Science degree in ocean engineering from Purdue University in 1984; a Master of Science degree in physical oceanography from the Scripps Institution of Oceanography, University of California, San Diego in 1988; and a doctorate in mechanical engineering from Johns Hopkins University in 1993. Dr. Fu was a George Washington University Visiting Scholar in 2013 and adjunct faculty member in 2014. He has also been an adjunct faculty member at the University of Maryland and Oregon State University.

Dr. Fu was named the Asian-American Engineer of the Year by the Chinese Institute of Engineers-USA in 2012 and a Fellow of the American Society of Mechanical Engineers in 2018. His other awards include a Meritorious Unit Commendation (2013) and the David Packard Excellence in Acquisition Award (1998). Dr. Fu also currently serves as the Navy's NATO-Applied Vehicle Technology Panel member, and as the Editor-in-Chief of the Society of Naval Architects & Marine Engineering (SNAME), Journal of Ship Research.

HEATHER GILBERT, NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION



Ms. Heather Gilbert has worked for the National Oceanic and Atmospheric Administration (NOAA) for over 15 years. She currently serves as the NOAA Senior Advisor to the U.S. Committee on the Marine Transportation System (CMTS).

Prior to her role in the CMTS, Ms. Gilbert began her career at NOAA as a nautical cartographer with the National Ocean Service, Office of Coast Survey. From there she moved to NOAA's Homeland Security Program Office, where she served as the project manager for the internal Geographic Information System (GIS) and managed the agencywide notification system. In her current role at the CMTS she works with the Future of Navigation Integrated Action Team (IAT) and leads task teams on Maritime Security and

Maritime Transportation Extreme Weather.

Ms. Gilbert earned a Masters of Geographic and Cartographic Science from George Mason University and a Bachelor of Science in Environmental Geography from Ohio University. She also holds a Master's Certificate in Project Management. Ms. Gilbert, when not traveling or skiing, lives in Alexandria, VA.

JOHN CUSHING, BUREAU OF SAFETY AND ENVIRONMENTAL ENFORCEMENT



John Cushing is a Senior Technical Advisor and Structural Engineer for the U.S. Department of the Interior's Bureau of Safety and Environmental Enforcement (BSEE). He has been with the agency since 2008 and is currently the Chief of the Inspection Policy Branch at the BSEE Headquarters office in Sterling, Virginia. Previously, he served for 24 years as a U.S. Coast Guard officer where he had extensive experience developing and enforcing safety regulations and performing duties as a Commercial Vessel Safety Inspector and a Marine Engineer. He has three engineering degrees – a B.S. in Civil Engineering from the U.S. Coast Guard Academy and two M.S. degrees from the Massachusetts Institute of Technology, one in Mechanical Engineering and one in Naval Architecture & Marine Engineering.

MICHAEL CARTER, MARITIME ADMINISTRATION



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