

ALLIED MARITIME COMMAND AND THE CENTRE FOR
SEAPOWER AND STRATEGY

SEA POWER CONFERENCE 2021

27-28 September, 2021

University of Plymouth, Devon, UK
Rolle Building 605



UNIVERSITY OF
PLYMOUTH



MARCOM-CSS SEA POWER CONFERENCE 2021

OPERATING IN AN ALL-DOMAIN GREY ZONE

NATO Allied Maritime Command and the Centre for Seapower and Strategy at the University of Plymouth (formerly the Dartmouth Centre for Seapower and Strategy) will co-host their Fourth Sea Power Conference at the University of Plymouth on 27-28 September 2021.

The inaugural 2018 Sea Power Conference explored the relevance of sea power to 21st century conditions and examined its application in the strategic seas on the NATO Alliance. Our 2019 Conference focused on the Allied maritime dimension of deterrence: the actions that underpin a deterrent posture, the effective management of that posture and the integration of strategic messaging. Following the establishment of a NATO Military Strategy – the first in decades – the third Conference took forward our discussion of deterrence by exploring the operational dilemmas central to presenting an effective deterrent and defence posture, and the role of effective joint force integration in achieving this. This fourth conference, and the first since the COVID-19 pandemic, explores the application of sea power to countering and conducting Grey Zone activity: uses aspects of the Military Instrument of Power, combined with other instruments, in ways that avoid, deny or manage the risks of major conflict, circumvent deterrent strategies, yet achieve geo-strategic objectives more usually associated with the successful use of military force.

Competition in the Grey Zone involves more than conventional military posture, although that remains a central element. It also involves the leveraging or manipulation of all military and related domains: space systems, the electromagnetic environment, information networks, the use of legal arguments to chill maritime access, public affairs, strategic communications and (dis)information operations.

This Conference will seek to test out hypotheses about what the critical operational dilemmas in delivering Allied deterrence and deference in a Grey Zone context are in the 2020s, how they relate to all-domain campaign strategies, the challenges NATO has in implementing those strategies (structurally and culturally) and in giving an indication of the capability and all-domain connectivity gaps that need to be addressed. A significant emphasis is placed on cross-component integration and on the new cyber, space and increasingly lawfare-related operational domains of conflict. An overarching theme, as with last year, is communication: how the Alliance should signal its efforts for deterrent effect and have an ear to the signalling of others.

Once again, the SPC seeks to bring together a select group of academics, government officials, media practitioners and military leaders to brainstorm the dynamics of sea power to contemporary deterrence and its contemporary application. A key element of SPC 2021 is that its outputs are intended to inform discussions in MARCOM's classified Maritime Operations Centre Directors Conference and Maritime Operational Commanders Conference in Spring of 2022 which will speak to the maritime dimension of NATO's new Strategic Concept. We will seek to infuse our policy and operational discussions with the insights gained from this collaboration.

In addition, the organisers will seek to publish the proceedings of the Conference in 2022. Further details will be available prior to the Conference.

The Conference will be held in a hybrid format, with up to 40 participants in person at the University of Plymouth and others participating virtually. To facilitate virtual participation and various time zones, the Conference will be held over two afternoons on Monday and Tuesday, 27 and 28 September. The link will be provided to registered participants in early September.

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PROGRAMME: (ALL TIMES UTC+1)

26 SEPTEMBER 2021

Time	Event
CHECK IN AT ACCOMMODATION. The recommended conference hotel is Jurys Inn Plymouth, 50 Exeter Street, Plymouth PL4 0AZ www.jurysinns.com/hotels/plymouth Tel +44 (0)1752 631 000	
19.00	INFORMAL DINNER FOR IN-PERSON PARTICIPANTS, DETAILS TO BE PROVIDED IN LATE-SEPTEMBER

27 SEPTEMBER 2021

Time	Event
11.30-12.00	REGISTRATION AND COFFEE (Meeting room and walking directions on campus will be provided in early September)
12.00-13.00	LUNCH AT UNIVERSITY OF PLYMOUTH, ROLLE BUILDING.
13.00-13.10	WELCOME Professor James Henry Bergeron , Political Advisor, Allied Maritime Command Dr Fotios Moustakis , Associate Professor of Strategic Studies, Director of the Centre for Sea Power and Strategy
13.10-14.00	KEYNOTE SESSION Vice Admiral Keith Blount CB OBE Royal Navy , Commander Allied Maritime Command Professor Annika Bautz , Head of the School of Society and Culture Keynote: David van Weel , Assistant Secretary General for Emerging Security Challenges (Virtual)
14.00-15.15	SESSION 1: DETERRENCE POSTURE MANAGEMENT IN AN ALL-DOMAIN WORLD This first session will lay the foundations for discussion with discussions on operating in the grey zone by addressing current dilemmas and issues in NATO deterrence posture management. How large and how active should Alliance naval forces be in areas where political and strategic tensions are high? Is there a balance to be struck between deterrence and escalation, and the signalling of Alliance resolve that can implicate both? Does the emergence of new destructive technologies and autonomy alter our understanding of the deterrence effect of presence? Chair: Cdre Jeanette Morang , Commander Allied Surface Forces NATO and Deputy Chief of Staff for Operations, Allied Maritime Command <ul style="list-style-type: none"> • Ambassador Catherine Royle, Political Advisor, Joint Force Command Brunssum • Dr Andrew Monaghan, Senior Associate Fellow, Royal United Services Institute for Defence and Security Studies • Major General Karl Ford CBE British Army, Director Policy and Capabilities, NATO International Military Staff, Brussels • Prof Dr Wolff Heintschel Von Heinegg, Chair of Public Law at Europa-Universitat Viadrina, Frankfurt (Oder)
15.15-15.30	TEA AND SANDWICHES (In-person attendees)
15.30-16.30	SESSION 2: THE USE AND ABUSE OF SPACE SYSTEMS FOR BLUE WATER EFFECT This session will address the use of space by competitors and the vulnerabilities of space systems. How can the correct linkages be made across government to leverage sovereign national capabilities in service to a joint military campaign? How far advanced are the Allies in doing this? How are the competitors faring? What is the nature of 'grey zone' operations in the space domain? Where is the greatest impact on maritime operations? Chair: Allen Antrobus , Director, Military Space, Airbus Defence and Space <ul style="list-style-type: none"> • Air Commodore Mark Flewin CBE Royal Air Force, Head Space Operations, Plans and Training, United Kingdom Space Command • Commander Alan Brechbill, USN, Director, Space Integration/Maritime Operations, US Pacific Fleet • Dr Markos Trichas, Head of UK National Eyes Only Bids and Studies, Airbus Space Systems (ENS)

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PROGRAMME: (ALL TIMES UTC+1)

27 SEPTEMBER 2021 (Cont)

Time	Event
16.30-17.00	CLOSING KEYNOTE: Rear Admiral James Morley, Royal Navy, Deputy Commander, Naval Striking and Support Forces NATO (Virtual)
17.00	PHOTO
TRANSPORT TO BORINGDON HALL PROVIDED BY UNIVERSITY OF PLYMOUTH	
18.30	PRE-DINNER DRINKS Boringdon Hall, Plymouth, Devon PL7 4DP www.boringdonhall.co.uk
19.00-21.30	CONFERENCE DINNER
SPONSOR REMARKS: Allen Antrobus, Director, Military Space, Airbus Defence and Space	
DINNER SPEAKER: Air Marshall Andrew Mark Turner, CB CBE CCMI Royal Air Force, Deputy Commander Capability, Royal Air Force	
Return to Plymouth by coach provided by University of Plymouth	

MARCOM-CSS SEA POWER CONFERENCE 2021

PROGRAMME: (ALL TIMES UTC+1)

28 SEPTEMBER 2021

Time	Event
11.45-12.45	CONFERENCE BRUNCH, Rolle Building, University of Plymouth
12.45-13.05	WELCOME by Professor Judith Petts CBE , Vice-Chancellor, University of Plymouth
13.05-13.10	OPENING REMARKS FOR DAY 2 Vice Admiral Keith Blount CB OBE Royal Navy , Commander Allied Maritime Command
13.15-14.15	SESSION 3: LAWFARE AS A WEAPON IN THE MARITIME GREY ZONE The Grey Zone tends to thrive in legal ambiguity, areas of law that are unresolved or contentious, or where governmental claims can have strategic effects, such as chilling the freedom of navigation. We see this in the problem in the attribution of Crimea's 'Little Green Men', in the use of maritime conventions to declare overboard exercise warning areas or exclusion zones; and to prohibit transit passage in arguable violation of the Law of the Sea. In the area of underwater cables, questions of ownership, state interest and the scope of legal activity present challenges to the effective protection of the global IT infrastructure. Arguments over Exclusive Economic Zones have led to forceful confrontations. This Panel will explore the current trends and stratagems in maritime lawfare and consider how NATO and Allies can best respond. Chair: Vice Admiral Didier Piaton , French Navy, Deputy Commander, Allied Maritime Command <ul style="list-style-type: none"> • Commander Xavier Maurange, French Navy, Legal Advisor, Allied Maritime Command • James Kraska, Chair and Charles Stockton Professor of International Maritime Law, US Naval War College Newport (Virtual) • Dr Douglas Guilfoyle, Associate Professor of International and Security Law, University of New South Wales, Canberra (Virtual)
14.15-14.30	TEA
14.30-15.45	SESSION 4: LEVERAGING CYBERSPACE IN GREY ZONE TACTICS NATO now considers cyberspace to be operational domain in conflict. This session focuses on the emerging nature of cyber warfare and cyber threats to maritime operations, both military and commercial. For NATO, the challenge is to engage with and be complimentary to national cyber capabilities while ensuring cyber resilience of deployed forces and headquarters. Cyber has been extensively used in the Grey Zone, from GPS jamming and spoofing, cyber-driven physical damage to complex systems, to disinformation and political influence. This panel explores those experiences and discusses the lessons identified from them. Chair: Dr Fotios Moustakis , Director, Centre for Seapower and Strategy, University of Plymouth <ul style="list-style-type: none"> • Commander Mike Widmann, Defensive Cyber Lead, MARCOM, former Strategy Branch Head, NATO Cooperative Cyber Defence Centre of Excellence, Tallinn • Professor Peter Dombrowski, US Naval War College, Newport RI (Virtual) • Commander Stefan Lundqvist PhD, Royal Swedish Navy (Virtual) • Professor Kevin Jones, Executive Dean, Faculty of Science and Engineering, University of Plymouth • Chronis Kapalidis, Principal, Information Security Forum
15.45-16.00	TEA
16.00-17.10	SESSION 5: HIGH LEVEL ROUNDTABLE ON HOW TO RESPOND - THE NEXT STEPS IN ALLIANCE ALL-DOMAIN INTEGRATION Much has been said recently on the need for all-domain integration in military operations, usually in discussing high-end warfighting. But how does all-domain integration play in the Grey Zone. Is this possible given current organisational and command/control structures? Is it something that is already being used against us? This final session will bring together a number of senior NATO commanders to consider how all operational domains can better support each other in addressing Grey Zone competition. Chair: Lieutenant General Sir Edward Smith-Osbourne , KCVO CBE British Army, Commander, Allied Rapid Reaction Corps <ul style="list-style-type: none"> • Vice Admiral Keith Blount CB CBE Royal Navy, Commander Allied Maritime Command • Lieutenant General Sławomir Wojciechowski PhD, Commander, NATO Multinational Corps North East • Vice Admiral Marc Aussedat, French Navy Sous chef programme, Etat major des armées • Brigadier General Joel L. Carey, USAF, Deputy Chief of Staff for Operations, Allied Air Command • Brigadier General Richard Cantrill, UK Royal Marines, Commander, 3 Commando Brigade • Professor Alessio Patalano, Department of War Studies, Kings College London (Virtual)
17.10-17.15	CLOSING REMARKS: Vice Admiral Keith Blount CB CBE Royal Navy , Commander Allied Maritime Command

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SENIOR OFFICERS IN ATTENDANCE

ORGANISERS



Professor Judith Petts CBE, Vice Chancellor University of Plymouth

Professor Judith Petts is the Vice-Chancellor and Chief Executive of the University of Plymouth, a post she has held since February 2016. She joined Plymouth from the University of Southampton where she had been Pro-Vice-Chancellor Research and Enterprise and previously the inaugural Dean of the Faculty of Social and Human Sciences (2010-13). Prior to this, she had spent 12 years at the University of Birmingham completing as Pro-Vice-Chancellor Research and Knowledge Transfer (2007-10). Over some 30 years, her research has particularly examined the interface between science and policy-making, and the effective use of evidence in decision-making. Currently she is a member of the Council of BBSRC, a trustee of the Sir Alister Hardy Foundation for Ocean Science, and a Director of the Heart of the South-West LEP. Previous appointments include as a member of NERC's Innovation Board (2011-16), the Science Advisory Council of Defra (2011-16); Royal Commission on Environmental Pollution (2006-11), the Council of NERC (2000-6), of EPSRC's Societal Issues Panel and Strategic Advisory Network, the Royal Society's Science in Society Consultative Committee, and the Advisory Board of Veolia Environmental Services. She was appointed Commander of the Order of the British Empire in the Queen's New Year Honours, 2012, for services to Scientific Research.



Vice Admiral Keith E. Blount, CB OBE, Royal Navy, Commander, Allied Maritime Command

Keith Blount is the Commander of NATO's Allied Maritime Command. He is NATO's principal maritime adviser and has operational Command of NATO's Standing Naval Forces.

He joined the Royal Navy in 1984 as a helicopter pilot. He received his wings in 1986 and was a front line aviator at the age of 20. Through a varied flying career, he qualified as an instructor and flew in the Royal Navy Helicopter Display Team.

Blount has blended his aviation experience with a broad span

of Command. He has commanded three warships, including the helicopter carrier HMS OCEAN and sailed in NATO Task Groups during Operation Sharpguard and Operation Active Endeavour. He was

the Iraqi Maritime Task Group Commander during Operation TELIC and, more recently, was the United Kingdom's Maritime Component Commander, based in Bahrain, spanning Operations in Syria and Iraq.

His staff appointments have included three periods in the Ministry of Defence and his last London assignment was as Military Assistant to the Vice Chief of the Defence Staff. He holds a Master of Arts degree in Defence Studies and is a Fellow of the Royal Aeronautical Society. Appointed Officer of the Order of the British Empire in 2012, he was awarded an operational Legion of Merit by the President of the United States in 2016. Blount was appointed Companion of the Order of the Bath in 2018.

Between 2015 and 2019 he was the Head of the Fleet Air Arm and the officer accountable for the Queen Elizabeth Class aircraft carriers.

Having previously been Chief of Staff to the European Union Naval Force and Deputy Commander of the Combined Maritime Forces, he was appointed as the Commander of NATO's Maritime Command in May 2019.



Dr Fotios Moustakis, Director, Centre for Sea Power and Strategy, University of Plymouth

As an Associate Professor in Strategic and Security Studies, I have more than twenty years of experience designing courses and teaching military officers, civil servants and university students on subjects pertaining to international and maritime security, strategy and transnational security threats with emphasis on terrorism.

I was a Visiting Professor in Terrorism at the NATO School in Oberammergau for five years and Senior Associate Member at St Antony's College, Oxford University. In 2009, I set up the first ever blended learning International MA programme in Applied Strategy and International Security to command-level staff at the Hellenic National Defence College (HNDC) -equivalent to the Royal College of Defence Studies- in Athens. I have supervised more than two hundred MA dissertations and a number of Doctoral students on strategic and security issues. I have published three monographs as well as a number of academic papers in a number of refereed and policy practitioner journals such as Defence Studies, Defence and Security Analysis, European Security, Mediterranean Quarterly, Central Asian Survey, Contemporary Security Policy, Mediterranean Politics, Jane's Intelligence Review, Conflict Security Research Series-Sandhurst, and Contemporary Review.

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Professor James Henry Bergeron, Political Advisor to the Commander, Allied Maritime Command

Jim Bergeron assumed duties as Political Advisor to the Commander, Allied Maritime Command in Northwood, United Kingdom on 1 September 2013. Previously the POLAD to Naval Striking and Support Forces NATO from July 2005 as a member of the US Government Service, he has served as foreign policy advisors to ten senior US and NATO Commanders in the fields of maritime and joint expeditionary operations. He served as POLAD to Commander Striking Force NATO and Allied Maritime Command Northwood UK during several NATO maritime and joint-level exercises; as POLAD to the NATO Response Force exercise Steadfast Jaguar in Cape Verde and NATO Riga Summit mission in 2006; and in a national capacity as POLAD to EUCOM Commander Joint Task Force Lebanon during the 2006 Israel-Hezbollah Conflict. From March until July 2011 he served as the Political Advisor to Commander NATO Operation Unified Protector in support of UNSCR 1973 operations in Libya. He is regularly consulted on NATO maritime strategy, NATO-EU relations, and was one of the drafters of the Alliance Maritime Strategy. Prior to his appointment in Naples, Professor Bergeron was EU/NATO Policy Advisor on the Staff of Commander, US Naval Forces Europe, London.

Professor Bergeron entered government service following a career in academia. He holds a BA in History and English Literature from the University of the State of New York, MA in Political Science from the Maxwell School of Citizenship and Public Affairs at Syracuse University, Juris Doctor magna cum laude from the College of Law at Syracuse University and Master of Laws in European Union Law from the London School of Economics and Political Science, University of London. Following completion of the LL.M. in 1991, he joined the Faculty of Law at University College Dublin, Ireland, where he specialized in European Union law, European affairs, comparative antitrust, international law and jurisprudence. From 1991-2000 he held visiting appointments at the Nicolas Copernicus University, Torun, Jagiellonian University, Krakow, Riga Graduate School of Law; Onati International Institute for the Sociology of Law, Spain and St. John's University College of Law, New York. In 1993 he developed the draft Estonian Code of Military Justice under the US European Command's military-to-military contacts program. Under the auspices of the European Commission he assisted in the revision of the Latvian Constitution from 1998-9 and training of Hungarian public prosecutors in EU law from 1999-2000. He served briefly on the Forward Studies Unit of the President of the European Commission. He has taught comparative US and EU antitrust in the University of London's inter-collegiate LLM programme as well as the Economics Department at City University, and was a fellow at the Lauterpacht Research Centre for International Law, Cambridge University from 2002-03. In 2020 he was made Honorary Professor of Law, Government and Criminology at the University of Plymouth.

His connections to the naval life are of long standing. Seaman Recruit Bergeron entered the United States Navy in 1976. After two years of nuclear propulsion training, he served as a reactor operator onboard USS ULYSSES S. GRANT (SSBN 631) and USS HOUSTON (SSN 713) in Newport News, Virginia. In July 1982 he reported to Officer Candidate School in Newport, Rhode Island. Upon commissioning as an officer and completion of submarine and Poseidon missile schools, he served on USS GEORGE C. MARSHALL (SSBN 654) as Assistant Weapons Officer. This was followed by twenty-one years in the US Navy Reserve, supporting US Naval Forces Europe, US Embassy Dublin and Allied Forces Southern Command in the areas of politico-military analysis and advice, partnership engagement and security cooperation. Commander Bergeron retired from the Navy Reserve in October 2007.

Jim Bergeron has published seventeen articles on legal, political and international security topics, and is the editor, with Peter Fitzpatrick, of *Europe's Other: European Law from Modernity to Post-Modernity* (Ashgate 1998). He is a member of the Council on Foreign Relations and has spoken at numerous institutions, defense colleges, universities and think tanks including the NATO Parliamentary Assembly, Cambridge University, the Center for Naval Analyses, Naval Postgraduate School Monterey, Chatham House, NATO Defense College, Britannia Royal Naval College Dartmouth, Institute for International Affairs (IAI) Rome, US National Defense University, Royal United Services Institute, Wilton Park and the Maritime Warfare School Halifax. He has had a long involvement with the American Bar Association, and currently serves as the Vice Chair of the European Law Committee of the American Bar Association and for three years was the ABA liaison to NATO. Personal decorations include the Meritorious and Superior Civilian Service Medals, Navy Commendation Medal, Joint Service Achievement Medal, Navy Achievement Medal, NATO Libya Medal, NATO Meritorious Service Medal and Golden Badge of the Ministry of Defence of Estonia. Interests include naval history, art, early music, jurisprudence, political theory, and military strategy.

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KEYNOTE SPEAKERS



Professor Annika Bautz, Head of the School of Society and Culture

Professor Annika Bautz joined the English and Creative Writing team at the University of Plymouth in 2010. Since then she has developed a number of new modules, including 'Gothic Fictions: Villains, Virgins, Vampires', and 'Reading Jane Austen: then and now'. Annika supervises undergraduate and postgraduate dissertations as well as ResM and PhD theses on a range of topics relating to Romantic and Victorian literature. She welcomes PhD and ResM applications in the areas of nineteenth-century literature and book history in particular.

Annika's research focuses on Romantic and Victorian fiction, principally the history of the book, library history and reception studies. Her publications include books and essays on the afterlives of Jane Austen, Walter Scott, George Eliot, Edward Bulwer-Lytton.

Annika is now Head of the School of Society and Culture. The school consist of over 30 programmes across the areas of Criminology, Creative Writing, English, Politics, International Relations, History, Art History, Anthropology, Sociology, Law, Acting, Drama, and Music, and is home to 2000 UG, PGT and research students.



David van Weel, Assistant Secretary General for Emerging Security Challenges, NATO

David van Weel is NATO's Assistant Secretary General for Emerging Security Challenges. He is the Secretary General's primary advisor on emerging security challenges and their implications for the security of the Alliance and a member of the Secretary General's senior management team.

The Emerging Security Challenges Division, which he directs and manages, aims to provide a coordinated approach by the Alliance to all new and emerging challenges. These include cyber and hybrid threats, terrorism, as well as emerging and disruptive technologies (such as AI and quantum computing), energy security challenges, including those posed by environmental changes, and data policy. The division also runs the Science for Peace and Security Programme, which promotes dialogue and practical cooperation between NATO and partner nations through scientific research, technological innovation and knowledge exchange.

The Division aims to provide innovative policy solutions for countering and defending the Alliance and Allies against these challenges and to maintain the innovative and technological advantage of the Alliance in conjunction with partners, industry and other multilateral organisations.

Prior to joining NATO, David van Weel was the Foreign Policy and Defense Advisor for the Prime Minister of The Netherlands (2016-2020). This position followed a long career in The Netherlands Ministry of Defence, where he ended as Director for International Affairs and Operations/ Policy Director (2014-2016) after serving as the Chief of Cabinet for the Minister of Defence and the Permanent Secretary (2012-2014) and as the senior policy officer for amongst others operations in Afghanistan and Libya, NATO, nuclear policy and disarmament, special operations and the preparation of the Defence Budget.

David started his career in the Royal Netherlands Navy, where, upon completion of the Naval Academy (1994-1999), he served on different frigates, served in the British Royal Navy as an exchange officer, worked as a Staff Officer for Middle and Eastern European countries in the Defence Staff and ended as a Primary Warfare officer and Navigation Officer.

David is married to Iris and has two daughters, Felice and Alix.



Rear Admiral James Morley, Royal Navy, Deputy Commander, Naval Striking and Support Forces NATO

James Morley joined the Royal Navy as a Warfare Officer in 1988. Initially specialising as a Fighter Controller and later qualifying as a Principal Warfare Officer, he undertook a range of junior seagoing appointments deploying several times to the Middle East and Far East, and contributing to operations closer to home including former Yugoslavia and Northern Ireland. He was Executive Officer of HMS STARLING (a Hong Kong Patrol Craft) in the lead up to the transfer of sovereignty of Hong Kong in 1997 and went on to command 3 ships: HMS DULVERTON (a Hunt Class Mine Countermeasures Vessel) on operations in Northern Ireland from 1997 to 1999; HMS LANCASTER (a Type 23 Frigate) from 2004 to 2006 deployed to the Middle East as part of a French Carrier Strike Group; and HMS ALBION (an Amphibious Assault Ship and the Fleet Flagship) from 2010 to 2011 deployed to the Mediterranean and

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Middle East in the wake of the Arab Spring. In 2017 he commanded Standing NATO Maritime Group 2 for operations in the Eastern Mediterranean and Black Sea – a period that also involved oversight of counter-migration and life-saving operations in the Aegean Sea.

Ashore he has worked in the Ministry of Defence (as a Desk Officer in the Directorate of Navy Resources and Plans, and as Naval Assistant to First Sea Lord), at the Joint Services Command and Staff College (as Assistant Director Strategy for the Higher Command and Staff Course), and in Navy Command Headquarters (as Assistant Chief of Staff for Maritime Capability) where he was responsible for developing the Royal Navy's future equipment programme. On promotion to Rear Admiral in 2018, he served as Director Capability in UK Strategic Command, responsible for joint enabling capability including Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR), Special Projects, Joint Medical capability and Support capability – roughly two thirds of the future Defence Equipment programme. He is a graduate of the Advanced and Higher Command and Staff Course, and United States Capstone.

James lives in a small rural village in West Sussex. A boat owner and offshore Yachtmaster, his interests also include road and mountain cycling. He is a freeman of the City of London, a Younger Brother of Trinity House, an honorary member of the Worshipful Company of Feltmakers, and President of Royal Navy and Royal Marines Cycling.



Air Marshal Andrew Turner CB CBE, Deputy Commander Capability, Royal Air Force

As Deputy Commander Capability of the Royal Air Force, Air Marshal Turner is responsible for delivering the RAF Strategy through people, equipment, digital, training, infrastructure and support to ensure the Service can deliver air and space power for the nation and project power and influence around the World.

Air Marshal Turner was born in 1967 and commissioned into the RAF in 1985. He was educated at Kingswood School in Bath, the RAF College Cranwell and Bracknell, the Indian Staff College, the UK Higher Command and Staff College, the Royal College of Defence Studies and the UK Pinnacle and US Capstone courses. He has studied at Oxford, Exeter, Kings College London, Chennai and the Open Universities earning a master's degree in international Relations, a master's degree in Strategic Studies and a first degree in Oceanography and Cosmology.

A helicopter pilot with 5100 flying hours, on 87 types of aircraft, 1850 of those on 22 operational tours in Northern Ireland, Central America, Saudi Arabia, Iraq, Kuwait, Bosnia, Kosovo, India, Albania, Pakistan and Afghanistan. He has commanded 28 (AC) Squadron, RAF Odiham, the UK Merlin and UK Chinook Forces, the Special Forces Aviation Wing, the Puma Force in Kosovo, Merlin Force in Iraq, the Chinook, Apache, Lynx and Sea King Forces in Afghanistan and No 22 Group. He has completed staff appointments in the UK MoD as the Director of Operations, strategic planning and media, Permanent Joint Headquarters as the head of military planning, Washington as CDS' Liaison Officer and in brigade, division and corps headquarters.

He holds Presidencies of No 1827 (Odiham) ATC Squadron, RAF Sports Parachute Association RAF Polo Association and UK Armed Forces Rowing Association; Vice Presidencies of the RAF Charitable Trust, RAF Rugby Union and RAF Club in Piccadilly; is an Upper Freeman of the Honorary Company of Air Pilots, Fellow of the Royal Aeronautical Society, Companion of the Chartered Management Institute; and an oarsman in the Upper Thames and RAF Rowing Clubs and a member of the mounted Light Cavalry in Windsor Great Park.

He was appointed as an Officer in the Most Excellent Order of the British Empire (OBE) in the 2003 Birthday Honours and was promoted to Commander (CBE) in the 2010 Birthday Honours. He was appointed a Companion in the Most Honourable Order of the Bath (CB) in the 2019 New Year Honours.

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SESSION SPEAKERS AND CHAIRS

SESSION 1



Commodore Jeanette Morang, Commander Surface Forces NATO

Commodore Jeanette Morang (1965) joined the Royal Netherlands Navy via the Royal Naval College in Den Helder in 1983 and was commissioned as a naval officer in 1986. After her traineeship on board the supply vessel HNLMS Zuiderkruis and the frigate HNLMS Callenburgh, she completed the Advanced Officers Training at the University in Groningen (business administration faculty in 1988).

In her second tour as a watch keeping officer on board HNLMS Callenburgh, she participated in a 6 month deployment with the Standing Naval Force Atlantic (STANAVFORLANT). Upon completion of the Principle Warfare Officers Course, she served as an Air Defence Officer (ADO) on board of the frigate HNLMS Witte de With (1995-1997). In 1997 Witte de With was the flagship of the STANAVFORLANT and she was responsible for the air defence of the force for a period of six months. Previous operational appointments before 1995 include ADO in HNLMS Tromp (1992-1994) and HNLMS van Kinsbergen (1991-1992). From 1997 to 1999 she assumed her first command on board of the minehunter HNLMS Alkmaar.

From 1999 to 2003 Morang was head of intelligence and operations with the Coastguard for the Netherlands Antilles and Aruba (CG NA&A). In this position she was, in cooperation with the intelligence and operations department of the Flag Officer Netherlands Forces in the Caribbean, responsible for the collection and validation of information regarding criminal maritime activities, like smuggling of people and drugs, in the area of interest of the CG NA&A. She was also involved in the actual deployment of forces (ships, aeroplanes and helicopters) in investigating, monitoring and interdiction activities in close cooperation with local law enforcement entities and international partners in the region like UK Customs, the DEA and the US Coastguard.

Following her posting in the Caribbean, she was stationed at the Naval Staff in The Hague for two years. Among other things, she was an adviser on coastguard issues. After completing the Advanced Staff Course (2006-2007), she served as an Executive Officer on board the Air Defence and Command Frigate HNLMS De Zeven Provinciën. In January 2007 she assumed command of the sister ship, HNLMS De Ruyter until July 2008. In this period De Ruyter participated in the maritime task group of UNIFIL off the coast of Lebanon for five months.

On completion of her command, she returned to The Hague and served on the CHOD's staff, as the account manager for the Navy in the Directorate of Operational Readiness until 2012. After one year of mentoring and teaching at de Advanced Staff Course, she was promoted to Captain and stationed with the Operations and Plans Division of the International Military Staff in NATO HQ as staff officer maritime plans and operations and chairman of the Military Committee Working Group Operations Maritime.

After returning home in 2016, she worked as a Branch Head in the Directorate of Operational Readiness at the MoD in The Hague. In 2017, she completed the Senior Executive Course. On 14 June 2019, she was promoted to Commodore and subsequently assumed the position of DCOS OPS/COM SURF at NATO's Maritime Command in Northwood.

Jeanette Morang has a 17 year old son Filip, who just finished high school.



Ambassador Catherine Royle, Political Advisor to the Commander Allied Joint Force Command Brunssum

Political Advisor to the Commander Catherine Royle joined NATO in January 2015 as Political Adviser to the Commander at Joint Force Command Brunssum after a long career as a British diplomat. She joined the Foreign and Commonwealth Office in 1986 following studies at the Universities of Oxford (BA in Philosophy, Politics and Economics) and Wales (MSc Econ in Strategic Studies). After an initial stint in London, Catherine's first post was in Chile. She returned to the UK at the end of 1991 where she worked on various aspects of UK policy in Iraq until 1997. Catherine then served in Dublin as First Secretary for EU and Economic Affairs. From 2001-2003 she served as Head of the Policy Unit on the Convention for the Future of Europe. She acted as policy advisor to Peter Hain – the UK's ministerial representative at the Convention on the Future of Europe - during the drafting of the proposed European Constitution (which eventually became the Lisbon Treaty). Catherine spent seven years in Latin America where she served as Deputy Head of Mission in Buenos Aires, and then as British Ambassador to Venezuela where she worked closely with UK business to protect and promote investment in a politically volatile environment, and to build a partnership with Venezuela on tackling

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narcotrafficking. Catherine was posted to Kabul in September 2010 as Deputy Ambassador at the British Embassy. In August 2012 she took up the role as Head of the Secretariat of the International Police Co-ordination Board. In that role she reinvigorated the organisation and partnered Mol in developing a 10 Year Vision for the ANP/Mol and initiating work on a series of 2 year rolling plans to promote implementation of the vision. Catherine also commissioned a consultancy to design a roadmap for the reform of the Ministry. Catherine was then seconded to work directly for Interior Minister Daudzai as Senior Advisor. In this role she delivered a final version of the 2 year plans, and developed plans for implementation of reform plans. She also focused on a blueprint for integration of international support for the Mol.



Dr Andrew Monaghan

Dr. Andrew Monaghan is a researcher and analyst in the field of international politics. He is a Russianist in the area studies style, with a preference for old-fashioned Kremlinology. His particular interests are Russian domestic politics, strategy and biography, and he has written extensively on Russian Grand Strategy, UK-Russia Relations, and the Euro-Atlantic community's relationship with Russia, particularly modern deterrence.

He founded the Russia Research Network in 2006, and continues as its Director. He is a Non-Resident Associate Fellow at the NATO Defence College (NDC), and commissioning editor of the NDC's Russian Studies Series. He is also an Honorary Senior Research Fellow at the University of Birmingham. Previously, he has held positions as Director of Research on Russia at the Oxford Changing Character of War Centre at Pembroke College, a Senior Research Fellow at Chatham House, and an Academic Visitor at St Antony's College, Oxford. NATO, the Defence Academy of the UK and King's College, London have also all employed him at different times over the last decade.

He is the author of the books *Dealing with the Russians* (Polity, 2019), *Power in Modern Russia* (MUP, 2017), and *The New Politics of Russia* (MUP, 2016). NATO and the EU have published his research and writing, as have many prominent international think tanks and academic journals, including Carnegie Europe, Chatham House and International Affairs, and other periodicals such as the Times Literary Supplement and Literary Review. He is a regular speaker at international conferences, literary festivals, and

He began his education as an historian at the University of Edinburgh, before graduating from the Department of War Studies, King's College, London, first from the MA programme with Distinction and the Simon O'Dwyer Russell prize in 2001, and then with a PhD in 2005.

He lives in London and regularly travels to Russia.



Major General Karl Ford

Following a cadetship to Bath University, Karl Ford commissioned into the Royal Artillery in 1989. Service in his first close support regiment (40 Regt RA) included the liberation of Kuwait (Op GRANBY/ DESERT STORM - 1991), before joining the Allied Commander Europe's Mobile Force (Land) or AMF(L), which included a Balkans deployment (1993). In 1995, he took command of a close support headquarter battery (O Battery/1RHA), before commanding a company of peshmerga in northern Iraq (Op WARDEN - 1996). He then spent 6 months with the Australian Army before returning as an SO3 Plans at the UK's HQ Land Command, which was punctuated by a tour in HQ SFOR, Sarajevo (1997). He then spent 6 months on the British Military Advisory and Training Team (BMATT) South Africa, followed by penance in the UK's Ministry of Defence, prior to attending the Advanced Command and Staff Course 4 in 1999/2001.

As SO2 J5 in the UK's deployable Joint Force Headquarters (JFHQ), he served in Cote D'Ivoire, Indonesia, Afghanistan (CJTF-180 - 2002), and the Gulf (Op TELIC 1/IRAQI FREEDOM - 2003) as an operational level/campaign planner. In 2003, he assumed subunit command (137 Bty/40 Regt RA), returning to Iraq as the brigade operations company (Op TELIC 2 - 2003) and deploying to Cyprus with UNFICYP (2004). On promotion to OF4, he was appointed to HQ ARRC and deployed to Afghanistan through the period of NATO expansion (ISAF IX – 2006).

He commanded a close support artillery regiment (26 Regt RA), including a tour to Iraq (Op TELIC 13 - 2008), before moving to the Permanent Joint Headquarters (PJHQ) as Military Assistant to the Chief of Joint Operations (MA/CJO). As an OF5, he was the Chief of Staff of the Army 2020 Study, which delivered a root and branch re-design of the British Army. On promotion to OF6 in 2012, he took command of 3(UK) Division's field artillery brigade, as the last Commander Royal Artillery (CRA).

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In September 2014, he took up post as ACOS J5 (Plans & Policy), SHAPE, which included the staff lead for NATO's Readiness Action Plan to adapt the Alliance in response to a resurgent Russia and dynamic threats from the Middle East and North Africa. After a short return to the UK as Brigadier Army Staff in the Army Headquarters, he was promoted to Major General and, in September 2017, assumed the post of DCOS Plans at JFC-BS where he was responsible for establishing the operational-level management of Deterrence, Continuous Adaptation, operations planning, Training & Exercises, and Military Partnerships. He joined the International Military Staff as the Director of the Policy and Capabilities Division, and the Deputy DGIMS, in February 2020. He was appointed MBE in 2003, QCVS in 2009 and CBE in 2017.



Professor Dr Wolff Heintschel von Heinegg, Chair of Public Law at Europa-Universität Viadrina in Frankfurt (Oder), Germany.

Professor Dr. Wolff Heintschel von Heinegg holds the Chair of Public Law, especially Public International law, European Law and Foreign Constitutional Law at the Europa-Universität Viadrina in Frankfurt (Oder), Germany.

In the academic years 2003/2004 and 2012/2013 he was the Charles H. Stockton Professor of International Law at the U.S. Naval War College. From October 2004 until October 2008 he was the Dean of the Law Faculty of the Europa-Universität. From October 2008 until November 2012 he was the Vice-President of that university. Previously, he served as Professor of Public International Law at the University of Augsburg. He had been a Visiting Professor at the Universities of Kaliningrad (Russia), Almaty (Kazakhstan), Santiago de Cuba (Cuba) and Nice (France).

He was the Rapporteur of the International Law Association Committee on Maritime Neutrality and was the Vice-President of the German Society of Military Law and the Law of War. Since 2007 he is a member of the Council of the International Institute of Humanitarian Law in San Remo, Italy. Since May 2012 he is the Vice-President of the International Society for Military Law and the Law of War and since May 2013 he is a Senior Fellow of the Cooperative Cyber Defence Centre of Excellence in Tallinn, Estonia.

Professor Heintschel von Heinegg was among a group of international lawyers and naval experts who produced the San Remo Manual on International Law Applicable to Armed Conflicts at Sea. In 2002 he published the German Navy's Commander's Handbook on the Law of Naval Operations. Professor Heintschel von Heinegg has been a member of several groups of experts working on the current state and progressive development of international humanitarian law, including the Manual on Air and Missile Warfare (2010) and the Tallinn Manual on the International Law Applicable to Cyber Warfare (2013). He is a widely published author of articles and books on public international law, in particular international humanitarian law, European and German constitutional law.

SESSION 2



Mr Allen Antrobus, Airbus Defence and Security

Allen joined Airbus as the UK's Key Account Manager for Military Space in August 2017. He is responsible for supporting the development of Airbus Defence and Space's long term space strategy within the UK and NATO. Allen was an officer in the Royal Air Force (RAF) for over 20 years. He initially trained as an Intercept Controller and undertook both UK and overseas tours before being selected to undertake an exchange with the US Marine Corps. Following this tour, Allen then represented the RAF in a variety of tours with the British Army, primarily involved in the delivery of Air Power in support of land operations. In 2007, Allen commanded the Solid State Phased Array Radar in North Yorkshire which is central to the US Space Surveillance Network. His MA Thesis, whilst at the Defence Academy, was on Space Security and this ensured he was selected to be the Chief of the Air Staff's Senior Advisor for Space in 2012. Here he drafted policy for Ministers on Space Situational Awareness and transformed the working relationships with other nations, government departments (specifically the UK Space Agency), commercial companies and academia. Allen retired from RAF regular service in 2014 and took up roles within the UK Space Agency and the RAF's Headquarters as a Reservist Officer. For the UK Space Agency, Allen was responsible for leading the UK's input into the EU Space Surveillance and Tracking initiative and undertook the role of deputy-chair for the international steering board comprising of representatives from the European Commission, France, Germany, Italy, Spain and the UK. In addition, Allen led the UK's technical committee which comprised of UK military, commercial, scientific and academic participants. In his role as a Reservist Officer, Allen was responsible for the long term capability development for the RAF's space-based requirements which included Global Navigation Satellite Systems, SatCom and Intelligence, Surveillance and Reconnaissance. This

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involved initiating and overseeing research projects, drafting capability plans and securing funding to develop and deliver new military programmes. Allen spent 3 years working as both an independent consultant to the UK's Space Agency and as a reservist with the Royal Air Force, where he remains active with 600 (City of London) Squadron. UK Key Account Manager – Military Space



Air Commodore Mark Flewin, Head of Operations, Plans and Training, UK Space Command

Air Commodore Mark Flewin CBE is a Fast Jet pilot and Qualified Weapons Instructor, who has completed several frontline tours and operational deployments on the Jaguar and Typhoon. He joined the nascent Typhoon Force in 2005, taking on instructional and standardisation roles to support capability growth, alongside operational deployments to the Combined Air and Space Operations Centre in Qatar and to command 903 Expeditionary Air Wing in support of Op SHADER. In addition to Front-Line command appointments, joint roles have included: Chief of Staff within the Air Staff at the Ministry of Defence and Chief of Staff, Joint Effects at the UK Permanent Joint Headquarters, where he was appointed CBE in 2018 for his operational contribution. He assumed command of RAF Coningsby in 2018, supporting a multitude of operational commitments in the UK and overseas, as well as the key commemorative role of the Battle of Britain Memorial Flight. A short tour as Typhoon Force Commander followed with oversight of RAF Leeming, the Hawk T1 fleet and the Royal Air Force Aerobatic Team, in addition to the Typhoon Force at RAF Coningsby and Lossiemouth. Upon completion of the Higher Command and Staff Course, Air Commodore Flewin was appointed to the newly formed UK Space Command, with an exciting portfolio including oversight of UK space operations, planning and training.



Commander Alan Brechbill

Commander Alan Brechbill is Director, Space Integration, Maritime Operations at US Pacific Fleet. He was previously Chief ISR Readiness and Talent Management at US Space Force, where he was a plankowner, and Deputy Naval Attache at the US Embassy in London. He holds a BA from the University of California Riverside, and an MS from the US Naval Postgraduate School.



Dr Markos Trichas, Head of UK National Eyes Only Bids and Studies Airbus Space Systems (ENS)

Prior to joining Airbus Defence and Space, Markos was a researcher at Harvard University, Rutherford Appleton Laboratory and Imperial. Since joining the Space Future Programmes for Earth Observation, Navigation and Science team at Airbus he has led the Space Weather and Near Earth Objects detection and mitigation programmes. He is also part of Airbus' Innovations team, responsible for identifying, researching and promoting future technologies. He has authored and co-authored more than sixty papers, with almost 4000 citations. Markos holds a PhD in astrophysics from Imperial.

SESSION 3



Vice Admiral Didier Piaton, French Navy, Deputy Commander, Allied Maritime Command

Having joined the Naval Academy in Brest in 1983, Didier Piaton entered the realm of naval aviation at the beginning of his career. As a junior officer, he qualified as a helicopter pilot and specialized in anti-submarine warfare. He then was deployed in many operations notably in the Gulf, Horn of Africa and the Balkans. He concluded his first operational experience by commanding the newly created helicopter 36th squadron based in Toulon.

Graduated from Joint War College in 2000, he was then assigned to the Joint Military Head-quarters in Paris where he carried out strategic level planning duties, dealing in particular with NATO and EU-led operations in the Balkans.

Between 2004 and 2010, he served mainly at sea assuming command of a surveillance frigate based in the French West Indies (FS Ventôse 2004-2006), and the recently commissioned LHD Mistral based in Toulon (2008-2010).

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After this operational period, where he contributed mainly to counter-narcotics trafficking operations, crisis prevention in the Gulf of Guinea, and emergency interventions operations, he attended the 117th session of the NATO Defence College Senior Course in Rome (2010-2011).

He started this senior level part of his career with shore appointments including Human Resources management (2011-2014) as well as Public Affairs Officer and spokesman for the Chief of Staff of the French Navy (2014-2016).

Promoted Rear-Admiral (LH) in 2016, he assumed command of French Naval Forces deployed in the Indian Ocean and of the French forces based in Abu Dhabi, acting also as French National contingent Commander of Operation for Inherent Resolve (Iraq) until 2018. He served as deputy to the Chief of Staff/Operations at the Joint Staff in Paris (2018-2020), supervising the COVID-19 ministerial crisis cell from the Joint Staff.

Upon promotion to his present rank in June 2020, Vice-Admiral Piaton has been the Deputy Commander at the Allied Maritime Command (MARCOM) in Northwood (UK).

He holds various decorations and awards, including Commander of the Legion of Honour, Commander of the National Merit, the Military Valour Cross, the Overseas Medal (Middle East and Somalia clasps), and the Aeronautical Medal.

Married to Dominique, they raised five beloved children.



Commander Xavier Maurange

Commander Xavier Maurange is graduated in political sciences and management and is also PHD in History. He has joined the French Navy in 1997 where he has served on several operational units (aircraft carrier, frigate, support unit, and LHD) and has taken part to several national and international operations at sea. After this first operational experience, he qualified as a legal adviser and followed a cursus both operational and international. He has contributed to the process of Yaounde and worked on the concept of maritime security in the Gulf of Guinea for setting solutions to fight and reduce international piracy and robbery. He has also taken part to several joint operations as a joint legal adviser at operational level. He has been the senior legal adviser in MARCOM since 2019.



Professor James Kraska, LL.M, S.J.D, Chair Stockton Center for International Law

James Kraska is chair and Charles H. Stockton Professor of International Maritime Law in the Stockton Center for International Law at the Naval War College, the first-established chair at the institution and visiting professor of law and John Harvey Gregory Lecturer on World Organization at Harvard Law School. He has served as visiting professor of law at the College of Law, University of the Philippines, visiting professor of law at Gujarat National Law University, Mary Derrickson McCurdy Visiting Scholar at Duke University Marine Laboratory and fellow-in-residence at the Marine Policy Center, Woods Hole Oceanographic Institution.



Douglas Guilfoyle, Associate Professor of International and Security Law Associate Professor

Associate Professor Douglas Guilfoyle joined UNSW Canberra in 2018. His principal areas of research are maritime security, the international law of the sea, and international and transnational criminal law. Particular areas of specialism include maritime law-enforcement, the law of naval warfare, international courts and tribunals, and the history of international law.

He is the author of Shipping Interdiction and the Law of the Sea (CUP 2009) and International Criminal Law (OUP 2016); and is the editor of Modern Piracy: Legal Challenges and Responses (Elgar 2013). He has published numerous papers on maritime security and law enforcement, and in particular Somali piracy. His research work is informed by his consultancy to various government and international organisations.

He was previously a Professor of Law at Monash University, Reader in Law at University College London, and has worked as a judicial associate in the Australian Federal Court and the Australian Administrative Appeals Tribunal. He has also practised as a commercial litigation solicitor in Sydney.

He was a Gates Cambridge Trust scholar and Chevening scholar during his graduate study at the University of Cambridge.

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SESSION 4



Peter J. Dombrowski, PhD, US Naval War College, Newport RI

Dombrowski is a professor of strategy in the Strategic and Operational Research Department. Previous positions include chair of the Strategic Research Department, editor of the Naval War College Review, co-editor of International Studies Quarterly, and associate professor of political science at Iowa State University. Dombrowski is the author of over 65 publications. His most recent book is, "The End of Grand Strategy: U.S. Maritime Operations in the 21st Century" (Cornell 2018). He received his B.A. from Williams College and an M.A. and Ph.D. from the University of Maryland.

Commander Michael Widmann USN, Defensive Cyber Lead, MARCOM (formerly NATO Cyber Defence Center of Excellence, Tallinn)

Prior to joining MARCOM in 2021, Commander Michael Widmann was the Strategy Branch head for the NATO Cooperative Cyber Defence Centre of Excellence (CCDCOE) based in Tallinn, Estonia since 2016.

Michael was commissioned in the United States Navy in 2000 as a Surface Warfare Officer. He served forward deployed in Japan as Main Propulsion Division Officer aboard USS JUNEAU (LPD 10) and Auxiliaries Division Officer aboard USS KITTY HAWK (CV 64). In 2005 Michael became an Information Professional Officer specializing in Naval Communications. He continued serving in the following capacities: Information Assurance Officer and Knowledge Manager for Strike Force Training Atlantic in Norfolk, Virginia; Officer in Charge of Afghan National Security Forces Networks and Radios as well as a mentor for the Afghan National Police in Kabul, Afghanistan; Operations Officer at the Naval Computer and Telecommunications Area Master Station Atlantic in Norfolk, Virginia; Service Chief representative at the Defense Advanced Research Projects Agency (DARPA) in Arlington, Virginia; and Staff Officer in the Analysis and Concepts Branch at the NATO Command and Control Centre of Excellence in Utrecht, Netherlands.

Commander Widmann earned a Bachelor's of Science in Economics from the United States Naval Academy as well as a Master's of Science in Space Systems Operations from the United States Naval Postgraduate School.



Commander Stefan Lundqvist, PhD, Royal Swedish Navy, Director of Studies, Swedish National Defence College

CDR Stefan Lundqvist, Ph.D., is a dedicated and detailed researcher/military lecturer in the Department of Military Studies, with more than ten years of experience in undergraduate and graduate research and education. He serves on the War Studies Committee and is an elected member of the Research and Education Board, chairing its Syllabus Committee. Since January 1 2021, he serves as Director of Studies: Advanced Level in War Studies. Stefan Lundqvist is an experienced supervisor, a skilled teacher and a confident presenter, able to explain complex information to audiences at all levels. He has delivered presentations on Grand and Military Strategy at numerous conferences and workshops in Europe and the U.S. His research interests include International Relations, Grand and Military Strategy, Joint Doctrine, Comprehensive Operational Planning and Operations Assessment. His research articles have appeared in the RUSI Journal, Defence Studies and the Journal of Defence Studies, while he has contributed chapters in edited volumes and proceedings. Former assignments in the Swedish Armed Forces include serving on board navy vessels, as well as in sea- and shore-based staff positions at the tactical and operational levels of command.



Professor Kevin Jones, Executive Dean of the Faculty of Science and Engineering, University of Plymouth

I've worked on trustworthiness of complex systems, in one form or another, for most of my professional career.

Originally, formal methods and proof in the context of software development. Then many years in hardware verification, both pragmatic and theoretical, ranging from pre-tapeout verification of high volume silicon designs through to novel approaches to the formal verification of analog circuits. More recently, I've been working in the areas of cyber-security, with an interest in quantitative approaches to security and a very specific focus on security in the maritime domain. I've covered the spectrum from pure academic research through to pragmatic hands on industry deployment in both verification and

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security, and see the benefits of both academic and industrial mindsets. In recent years, I've spent a lot of time working with extraordinary individuals and building and managing some great teams capable of amazing results. Team building, managing, mentoring and teaching with people at various levels of experience has been a very satisfying addition to the technical work and has allowed us collectively to achieve far more than any of us could have managed singularly. Since returning to academia, I have enjoyed teaching students at all levels, from 1st year UG through PhD, and have been very involved in shaping the teaching of Computer Science through academic leadership roles in the University, the BCS and the WCIT.

Specialties: Cyber-security, Hardware verification; Software development; Formal methods; CAD tools; Analog verification; R&D; Leadership; Management.



Choros Kapadilis, Principal, Information Security Forum Associate Lecturer, University of Warwick

Chronis Kapadilis is a Principal at the Information Security Forum.

A former Navy Officer, a senior executive, researcher and experienced consultant with technical and policy-related knowledge of cybersecurity, Chronis has been addressing information security risks for more than 18 years, in complex business environments.

During his Navy career he specialised in Network, Information Security and Analysis, Threat Intelligence and Risk Assessment and Management, serving as CISO in high-risk operational environments.

Chronis stands as an Associate Lecturer and doctoral researcher at the University of Warwick, where he teaches cybersecurity, and as an Academy Associate at the International Security Department, Chatham House. He is also a board member in several academic and scientific bodies, while supporting international and regional organisations like ISO and ENISA, and several government agencies across Europe.

SESSION 5



Lieutenant General Sir Edward Smyth-Osbourne, Commander Allied Rapid Reaction Corps

At Staff he was, at various times, Chief of Staff 42 (North West) Brigade; Staff Officer Grade 2 Tactical Operations at the British Army Training Unit Suffield, Western Canada; Military Assistant to the Commander in Chief; a Staff Officer in the Ministry of Defence; Director Force Reintegration, Headquarters International Security Assistance Force, Afghanistan; and Deputy Commander, NATO Rapid Deployable Corps - Italy. In command he led the Intelligence, Surveillance and Reconnaissance Task Force in Kosovo; the Household Cavalry in Great Britain and Afghanistan; 38 (Irish) Brigade in Ulster; and London District and Household Division.

He holds the appointments of Colonel The Life Guards and Goldstick in Waiting; Colonel Commandant Royal Armoured Corps; Honorary Colonel Tayforth University Officer Training Corps; and President of Army Telemark.

Military education included the Staff College at Camberley and the Higher Command and Staff course at the Defence Academy.

Married with 2 children, his interests include fishing, walking, skiing, sailing, rural life and collecting books.



Lieutenant General Sławomir Wojciechowski PhD, Polish Army, Commander NATO Multinational Corps North East

Born on 30 September 1963 in Węgorzyno. Commissioned officer of the Polish Land Forces, PhD in Social Science. Lieutenant General Sławomir Wojciechowski co-founded the first EU Battlegroup formed based on 17th Mechanised Brigade. Thanks to his skills, knowledge and experience, LGEN Wojciechowski has occupied a number of responsible positions connected with leading and commanding forces in the country as well as abroad.

Education:

Military Academy of Air Defence in Koszalin (1987) National Defence University in Warsaw, Command/Staff Studies at the Faculty of Land Forces, graduated with a diploma (1993–1995). Joint Services Command and Staff College (Shrivenham, Great Britain) - postgraduate studies: Advanced Command

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and Staff Course (2001). NATO School Oberammergau (Germany), Combined Joint Operations Centre (2002). US Army War College, Carlisle Barracks (Pennsylvania, USA) - post-graduate studies in Defence Politics (2008). US Army War College, Carlisle Barracks - Joined Force Land Component Commander Course, Center for Strategic Leadership US Army War College (2017). War Studies University in Warsaw, National Security Department, PhD in Social Science and Security (2017).

Military career in Poland:

Platoon leader and officer cadet unit leader in the Military Academy of Air Defence in Koszalin (1988-1993). Commander of Anti-Aircraft Artillery Squadron in 3rd Armoured Brigade (1995-1997). Chief of Air Defence in 36th Armoured Brigade, reformed into 36th Mechanised Brigade in 1999 (1997-1999). Deputy Commander of 4th Anti-Aircraft Regiment in Zielona Góra (1999-2004). Commander of 4th Anti-Aircraft Regiment in Zielona Góra (2004-2007). Chief of Training in 11th Armoured Cavalry Division (2007). Commander of 17th Mechanised Brigade (2008-2012). Deputy Chief in the Operational Planning Directorate - J3 of the General Staff of the Armed Forces (2012-2013). Strategy and Defence Planning Department in the Ministry of National Defence (2013-2015). Deputy Operational Commander of the Polish Armed Forces (2015-2016). Operational Commander of the Polish Armed Forces (2017-2018). Commander of Multinational Corps Northeast (2018-present).



Vice Admiral Marc Aussedat

A graduate of the Naval Academy in 1990, Vice Admiral Aussedat has extensive operational experience in the French Navy. Also Graduated from the Ecole de Guerre and HEC, Marc Aussedat commanded two frigates before being appointed deputy commander of EU NAVFOR operations. He was promoted to the rank of Rear Admiral in 2019 and Commander of the French Aero-Maritime Rapid Reaction Force on board the Charles de Gaulle. Promoted to the rank of Vice Admiral in August 2021, he is now Director of International Capability Cooperation and Innovation Projects within the Staff Plans bureau of the French Armed Forces.



Deputy Chief of Staff Operations Brigadier General Joel L. Carey

Brigadier General Joel Carey is the Deputy Chief of Staff Operations at NATO's Headquarters Allied Air Command, Ramstein Air Base, Germany. General Carey is responsible to the Commander Allied Air Command for all operational matters, including Air Policing, Ballistic Missile Defence, Article 5 and Crisis Response Operations. He is also responsible for ensuring Headquarters Allied Air Command is prepared to establish an Air Operations Centre if required for an emerging Contingency Operation.

Brig. Gen. Carey was commissioned as a distinguished graduate of ROTC at Baylor University in 1992. He has served in numerous positions at the squadron, group, wing, numbered air force, major command, and Joint Chiefs of Staff levels. His assignments have included serving as commander of an operational fighter squadron, vice commander of two combat wings, commander of a flying training wing and commander of an air expeditionary wing. He has deployed in support of operations Deliberate Force, Provide Comfort, Northern Watch, Southern Watch, Enduring Freedom, Freedom Sentinel and U.S. Air Forces Central Command's Theatre Security Package. Prior to his current position, he was the Commanding General, Train, Advise, Assist Command-Air and Commander, 438th Air Expeditionary Wing, Kabul, Afghanistan.

Brig. Gen. Carey is a command pilot with more than 3,100 hours in multiple aircraft including the F-15C, A-29, F-111, EF-111, T-38C, C-208 and MC-12W. His aircraft time also includes more than 200 sorties and 600 hours in combat.



Brigadier Richard Cantrill, Commander, 3 Commando Brigade

Rich Cantrill joined the Royal Marines in 1996 and spent the majority of his early career in 3 Commando Brigade, as a mountain and cold weather warfare specialist. Early operational service included deployments to Sierra Leone for operations PALLISER and SILKMAN, for which he earned a commendation from the Joint Commander. Promoted Major in 2004, his highlight at this rank was commanding 42 Commando's L Company on operations in Afghanistan. For his part in HERRICK 9 he was awarded the Military Cross and a commendation from the Canadian Chief of Defence Staff.

Achieving 'Top Maritime Student' on Advanced Command and Staff Course in 2010, he was then promoted Lieutenant Colonel and spent two formative years in the MOD as Military Assistant to the Deputy Chief of Defence for Military Strategy and Operations. For this role he was awarded an OBE in the 2014 New Year's Honours list.

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Rich returned to 42 Commando in January 2014, as Commanding Officer, spending a varied two years in command that took him all over the world. On promotion to Colonel in 2016 he was assigned as Chief of Staff for both Commander UK Amphibious Forces and the EU's Operation ATALANTA, countering pirates off the Horn of Africa. He then returned to the MOD in 2018 as an Assistant Head for Counter-terrorism and UK Operations, supporting no-notice counter-terrorism responses and leading departmental work on 'No Deal' EU Exit contingency.

Following attendance at Higher Command and Staff Course 20, he was seconded at short notice to the Cabinet Office's Covid-19 Taskforce, as Chief of Staff to the Director of the C19 Portfolio Management Office.

He assumed command of 3 Commando Brigade on 2 September 2020 and lives in Plymouth with his wife Sarah and three children.



Professor Alessio Patalano, Professor of War and Strategy in East Asia Department of War Studies, King's College London

Prof Patalano specialises in maritime strategy and doctrine, Japanese military history and strategy, East Asian Security, and Italian defence policy. From 2006 to 2015, he was visiting professor in Strategy at the Italian Naval War College (ISMM), Venice. In Japan, Prof Patalano has been a visiting professor at Aoyama Gakuin University and at the National Graduate Institute for Policy Studies (GRIPS), both in Tokyo, and currently is Adjunct Fellow at the Institute of Contemporary Asian Studies, Temple University Japan and Visiting Professor at the Japan Maritime Command and Staff College (JMCSC). At KCL, Prof Patalano is the Director of the Asian Security and Warfare Research Group the leading UK forum for research and education on East Asia and the King's Japan Programme. Prof Patalano is also a senior fellow with the Royal United Services Institute (RUSI) and at Policy Exchange, he leading think tanks on defence and security matters in the UK.

Research Interests: Prof Patalano's research on Japanese military history and strategy has received international recognition and has been recently credited to define the application of a strategic studies methodology to the study of contemporary Japanese security (CSBA 2020, 23).

His current research focuses on maritime strategy, Chinese hybrid strategy and maritime coercion, Sino-Japanese maritime territorial disputes, and the relationship between military power and statecraft in Japan. He maintains active research collaborations with the Naval Postgraduate School (Monterey, CA), the China Maritime Studies Institute at the Naval War College, (Newport, RI).

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PARTICIPANT LIST *VIRTUAL PARTICIPANTS IN ITALICS

ADDITIONAL PARTICIPANT LIST *VIRTUAL PARTICIPANTS IN ITALICS

Commodore (Ret) Heber Ackland	Director of Selborne Programmes, University of Lincoln (TBC)
Mr Rowan Allport	Deputy director, Human security centre
<i>Vice Amiral Marc Aussedat</i>	<i>Sous chef programme, Etat major des armées (TBC)</i>
<i>Dr Benedetta Berti-Alberti</i>	<i>Head of Policy Planning NATO HQ</i>
Mr Brent Bohné	POLAD AIRCOM
<i>Dr Sebastien Bruns</i>	<i>Fulbright-McCain Scholar-in-Residence, US Naval Academy</i>
<i>Professor Jonathan D. Caverley</i>	<i>US Naval War College</i>
CAPT Savvas Chozos	COMMDIR ACOS
<i>OF-1 Ambre Dominici</i>	<i>Legad, Marine Nationale</i>
CAPT Matt Farr	Commanding Officer, ONR Global
CAPT (Ret) Andrew Ian Harris	Maritime adviser to MBDA
<i>Professor Wolff Von Heinegg Heintschel Von Heinegg</i>	<i>Chair of Public Law at Europa-Universitat Viadrina, Frankfurt (Oder)</i>
Dr Stavros Karamperidis	Lecturer in Maritime Economics, Plymouth Business School, University of Plymouth
<i>CAPT Peter Kulakowski</i>	<i>US Naval War College</i>
Mr Kenneth Linvingstone	Lecturer in Security Management, School of Society and Culture, University of Plymouth
Mr Snorri Matthiasson	Political Advisor, JFC Norfolk
Dr Simon Murden	Lecturer in Strategic Studies, University of Lincoln
Professor Alan Myers	Director of Military Education, University of Lincoln
<i>Mrs Christine Osowski</i>	<i>Office of the Chief of Naval Operations</i>
<i>Professor Marton Peri</i>	<i>Pázmány Catholic University, Budapest.</i>
RDML Benjamin G. Reynolds	Director of Maritime Headquarters U.S. Naval Forces Europe-Africa/U.S. 6th Fleet
<i>Mr Trevor Rush</i>	<i>Legal Advisor, JFC Norfolk</i>
Mr Mark A. Schapiro	Foreign Policy Advisor U.S. Naval Forces Europe-Africa
CSEL Mike Stanion	Command Senior Enlisted Leader, MARCOM
<i>Director Bruce Stubbs</i>	<i>Strategy and Concepts Branch, US Navy</i>
<i>CAPT (Ret) Peter Milton Swartz</i>	<i>CNA</i>
<i>Mr Paul Taylor</i>	<i>Senior Fellow, Contributing editor, POLITICO</i>
<i>Dr Eric Thompson</i>	<i>Vice President and Director, Strategy, Policy, Plans & Programs Division, CNA</i>
<i>Ms Alix Valenti</i>	<i>Independant researcher and writer</i>
Mr Arnaud Valli	DPOLAD MARCOM
<i>Dr Lee Willett</i>	<i>Independent researcher and writer</i>
<i>Professor Andrew Winner</i>	<i>US Naval War College</i>



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