Naval Research Program ~ Naval Research Working Group 19 ~ Social & Research Poster Session Topics

Building on information gathered during the lab tours, the social and poster session is primarily an opportunity for our many Topic Sponsors to gain insight on the breadth and depth of the research taking place at NPS. Our world-class faculty study the cutting-edge developments of operational navies across the globe. Their research extends the reach of today's naval services, whether underwater, on the surface, in the air, or orbiting the earth. Come see their research projects, ask them to share their expertise, and enjoy refreshments generously provided by the NPS Foundation.

No.	Primary Contact	Email	School	Topic Title
1	Claudia Luhrs	ccluhrs@nps.edu	GSEAS	PCM-Epoxy Formulations for Improved Thermal Performance
2	Claudia Luhrs	ccluhrs@nps.edu	GSEAS	Effects of Environmental Factors On Additive Manufactured Materials
3	Claudia Luhrs	ccluhrs@nps.edu	GSEAS	Additive Manufacturing for Shipboard Applications
4	Claudia Luhrs	ccluhrs@nps.edu	GSEAS	Paste-based 3D Printing of Metallic Materials: Effects of Binders and Precursor Sizes
5	Jonathan Phillips	jphillip@nps.edu	EAG	Novel Paradigm Supercapacitors: Testing Ultimate Energy Density
6	Jonathan Phillips	jphillip@nps.edu	EAG	Low Temperature, Low Cost, Precision Additive Manufacturing M-AM
7	Troy Ansell	troy.ansell@nps.edu	GSEAS	Materials Characterization Facilities
8	Troy Ansell	troy.ansell@nps.edu	GSEAS	Evaluation of Mechanical Properties of 3-D Printed Maraging Steel
9	Emre Gunduz	emre.gunduz@nps.edu	GSEAS	Additive Manufacturing of Extremely Viscous Materials
10	Andy Nieto	andy.nieto@nps.edu	GSEAS	Corrosion and Wear Resistant Metallic Composite Coatings Fabricated by Cold Spraying
11	Don Brutzman	brutzman@nps.edu	GSOIS	X3D Model Exchange: 3D Printing Archives for Navy + Marine Makers
12	Don Brutzman	brutzman@nps.edu	GSOIS	Creating a Virtual Environment to Analyze Manned Unmanned Teaming
13	Amela Sadagic	asadagic@nps.edu	GSOIS	MOVES Student Thesis Focused on the Use of Commercial Off the Shelf Virtual Reality (VR) and Augmented Reality (AR) Technology
14	Amela Sadagic	asadagic@nps.edu	GSOIS	Additive Manufacturing in Naval Domain: Innovation, Adoption and Taxonomy of Cybersecurity Threats
15	Amela Sadagic	asadagic@nps.edu	GSOIS	Effectiveness of Training Systems that Employ Virtual Reality, Augmented Reality, and Touchscreen Displays
16	Amela Sadagic	asadagic@nps.edu	GSOIS	Metrics and Measurement in Additive Manufacturing Domain: Adoption and Return on Investment
17	Emil Kartalov	epkartal@nps.edu	GSEAS	3D Printable Artificial Muscles for Powered Armor and UUV Propulsion
18	Emil Kartalov	epkartal@nps.edu	GSEAS	Power Optimization of Bacterial Biofuel Cells for Renewable Energy for UUVs

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19	Emil Kartalov	epkartal@nps.edu	GSEAS	Depth-Independent Thermal Insulation for Segmented Diver Suits
20	Ray Madachy	rjmadach@nps.edu	GSEAS	Early Phase Cost Models for Agile Software Processes in the US DoD
21	Young Kwon	ywkwon@nps.edu	GSEAS	Development of Shipboard Equipment Shock Survivability Assessment Technique
22	Karen Holness	kholness@nps.edu	GSEAS	Advancing Post Mission Data Collection and Analysis Using a Sociotechnical System Design Approach
23	Brandon Naylor	blnaylor@nps.edu	EAG	Ship-To-Shore Bulk Fuel Delivery for Expeditionary Operations
24	Michael Atkinson	mpatkins@nps.edu	GSOIS	Multi-Commodity Push/Pull Logistics for Distributed Lethality
25	Joshua Gordis	jgordis@nps.edu	GSEAS	Combat Supply Chain Planning Tool with Vehicle Attrition
26	Eva Regnier	eregnier@nps.edu	GSBPP	Marine Forces Reserve Hurricane Decision Simulator
27	Joseph Klamo	jklamo@nps.edu	GSEAS	Experimental Naval Hydrodynamics Lab: Tow tank facility with waves
28	Joseph Klamo	jklamo@nps.edu	GSEAS	Experimental Naval Hydrodynamics Lab: Effects of Geometry on the Wave-Induced Loads Experienced by Near-Surface Unmanned Underwater Vehicles
29	Mara Orescanin	msoresca@nps.edu	GSEAS	Change Detection of Marine Environments Using Machine Learning
30	Timour Radko	tradko@nps.edu	GSEAS	Hydrodynamically-based Detection of the Surface and Subsurface Wakes
31	Sherif Michael	michael@nps.edu	GSEAS	Enhanced Performance Solar PUMA UAS
32	Isaac Kaminer	kaminer@nps.edu	GSEAS	Optimal Mission Planning for MCM Vehicles and Sensors
33	Arijit Das	adas@nps.edu	GSOIS	Sonar Detection Mission Planning Tool
34	Arijit Das	adas@nps.edu	GSOIS	Expeditionary Mine Countermeasures ExMCM C5I/Cyber Requirements
35	Tom Murphree	murphree@nps.edu	GSEAS	Coastal Marine Spatial Planning in the Pacific Islands
36	Kevin B Smith	kbsmith@nps.edu	GSEAS	Networked Undersea Autonomous Sensing and Tracking
37	Kevin B Smith	kbsmith@nps.edu	GSEAS	Analysis of Acoustic Vector Sensor Capabilities near Littorals
38	Gamani Karunasiri	gkarunas@nps.edu	GSEAS	MEMS Direction Finding Acoustic Sensor
39	Frank Kragh	fekragh@nps.edu	GSEAS	Cluster Computing for Automated Network Analysis at Scale
40	Scott Jasper	sejasper@nps.edu	SIGS	Cyber Warfighting System for Resilience and Response
41	Ruriko Yoshida	ryoshida@nps.edu	GSOIS	Network Classification with Incomplete Information
42	Neil Rowe	ncrowe@nps.edu	GSOIS	Cognitive Threat Emitter Recognition for Counter UxS Exploitation Goals
43	Neil Rowe	ncrowe@nps.edu	GSOIS	Planning Big-Data Distributed Processing for Combat ID

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44	Arkady Godin	aagodin@nps.edu	GSOIS	A Big Data Architecture in Support of the Running Estimate
45	Ying Zhao	yzhao@nps.edu	GSOIS	Data Mining, Machine intelligence, Machine learning for Application in Over-The-Horizon Targeting (OTH-T) for Anti-Access Area Denied (A2AD) Environments
46	Ying Zhao	yzhao@nps.edu	GSOIS	Deep Analytics for Content Management System (CMS).
47	Ying Zhao	yzhao@nps.edu	GSOIS	Reinforcement Learning for Modeling Large Scale Cognitive Reasoning (Phase II)
48	Ying Zhao	yzhao@nps.edu	GSOIS	Big Data, ML and AI for Combat ID and Combat Systems – Design, Demonstrate and Proof of Concept
49	Carl Albing	carl.albing@nps.edu	GSOIS	Data Science Environment for Agile Analytics
50	Brennan Cox	bcox@nps.edu	GSOIS	Tablet Based Aircrew Tasks for the Normobaric Hypoxia Training Device
51	Tony Pollman	agpollma@nps.edu	GSEAS	Re-engineering & Integrating a Building Scale Liquid Air Energy Storage System
52	Tony Pollman	agpollma@nps.edu	GSEAS	M&S, Development, and Testing of TEG Waste Heat Harvesting Prototype
53	Bryan O'Halloran	bmohallo@nps.edu	GSEAS	Physics of Failure: Modeling and Simulation for Lifetime Predictions
54	Bryan O'Halloran	bmohallo@nps.edu	GSEAS	Reliability Growth for Complex Systems Programs
55	Giovanni Oriti	goriti@nps.edu	GSEAS	Energy Security For Military Bases Using Microgrids
56	Douglas Van Bossuyt	douglas.vanbossuyt@nps.edu	GSEAS	Risk Analysis of the Assault Amphibious Vehicle
57	Douglas Van Bossuyt	douglas.vanbossuyt@nps.edu	GSEAS	Counter Micro UAV Threats Through Analysis and Design/Re-Design of Facilities and Ships
58	Douglas Van Bossuyt	douglas.vanbossuyt@nps.edu	GSEAS	Identifying Traits that May Lead to Unethical Decision Making and Destructive Behavior in Navy Recruiters
59	Ric Romero	rnromero@nps.edu	GSEAS	Electronic Protection against CJ and DRFM using Target Signatures
60	Ric Romero	rnromero@nps.edu	GSEAS	Novel Radar Waveform Design and Use of Low-Cost/ Low-Rate Sampling for Certain Wideband Targets
61	Ric Romero	rnromero@nps.edu	GSEAS	Physical Layer Security for Communications via MIMO and Novel N-Dimensional Modulation in Fading Channel
62	Ric Romero	rnromero@nps.edu	GSEAS	Cognitive Radar: Clutter-mitigating Adaptive Waveforms for Target Classification of Ground-based Target RCS Responses
63	Wenschel Lan	wdlan@nps.edu	GSEAS	Assured Command and Control via Optical Communications
64	Wenschel Lan	wdlan@nps.edu	GSEAS	High-Power Rocket Program
65	Wenschel Lan	wdlan@nps.edu	GSEAS	Rocket-Delivered Communications System
66	Elizabeth Gooch	elizabeth.gooch@nps.edu	GSBPP	Long-term Impact of China's Great Leap Forward on Development (1959-61)

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67	Kathryn Aten	kjaten@nps.edu	GSBPP	Community and Organization at Work
68	Kathryn Aten	kjaten@nps.edu	GSBPP	Cyber Security Talent Management
69	Kathryn Aten	kjaten@nps.edu	GSBPP	Healthy Online Communities
70	Simona Tick	sltick@nps.edu	GSBPP	Cost-Benefit Analysis of Navy Station Search and Rescue (SAR)
71	Simona Tick	sltick@nps.edu	GSBPP	Improving Visibility of Talent: Analysis of Technical Skills and Cognitive Aptitude of Navy Officers
72	Wayne Porter	nwporter@nps.edu	GSOIS	Analysis of Non-Lethal Directed Energy Weapon Employed in Area Denial Mission Scenario
73	Wayne Porter	nwporter@nps.edu	GSOIS	Mapping Dark Maritime Networks
74	Shelley Gallup	spgallup@nps.edu	GSOIS	Naval Special Warfare Command, Lessons Learned Improvement
75	Shelley Gallup	spgallup@nps.edu	GSOIS	MDUSV MCM Mission
76	Shelley Gallup	spgallup@nps.edu	GSOIS	Future Combat Systems – Data and Information Science Technologies as a Force Multiplier
77	Brian Wood	bpwood@nps.edu	GSOIS	The Reboot of HF Comms in the US Navy
78	Brian Wood	bpwood@nps.edu	GSOIS	Medium Displacement Unmanned Surface Vehicle
79	Doug MacKinnon	djmackin@nps.edu	GSOIS	Unmanned Surface Logistics Concept of Support
80	Doug MacKinnon	djmackin@nps.edu	GSOIS	MV-22 Supply Chain Agility
81	Scot Miller	scot.miller@nps.edu	GSOIS	Unmanned Tactical Autonomous Control and Command (UTACC) Command And Control (C2) Framework
82	Scot Miller	scot.miller@nps.edu	GSOIS	Joint Fires in support of Distributed Maritime Operations
83	Sue Higgins	shiggins@nps.edu	GSOIS	Implementing the DoN 30 Year R&D Plan
84	Sue Higgins	shiggins@nps.edu	GSOIS	Fostering Innovation in the Naval R&D Enterprise
85	Sue Higgins	shiggins@nps.edu	GSOIS	Implementing DoN 30-Year R&D Plan: Creating and Sustaining a Culture That Values Learning, Strategic Agility, Collaboration and Innovation
86	Sue Higgins	shiggins@nps.edu	GSOIS	Enhance Warfighter Performance by Fostering Organizational Agility & Innovation in the Naval Research and Development Enterprise
87	Perry McDowell	mcdowell@nps.edu	GSOIS	Improving Marksmanship Instruction in Entry Level Training Using MAT-MP
88	Perry McDowell	mcdowell@nps.edu	GSOIS	Determining the Effects of Training in Virtual Environments
89	Don Abenheim	dabenheim@nps.edu	SIGS	Naval Innovation and Great Power Competition: Russian Area Denial Anti-Access Posture

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91	Ray Buettner	rrbuettn@nps.edu	GSOIS	Joint Interagency Field Experimentation (JIFX)
92	Ray Buettner	rrbuettn@nps.edu	GSOIS	Sea Land Air Military Research (SLAMR) Initiative
93	Brandan Schofield	brschofi@nps.edu	GSOIS	Marine Corps Logistics Data at NPS
94	Brandan Schofield	brschofi@nps.edu	GSOIS	Ethereum Blockchain Cluster at NPS
95	Joseph Haynsworth	jhaynswo@nps.edu	GSEAS	Security Implications of Required Ship Safety Beacons
96	Kevin McFerrin	kpmcferr@nps.edu	GSEAS	GNU Radio Companion and NAVTEX
97	Gaucher Chris	cjgauche@nps.edu	ITACS	Information Technology & Communications Services at NPS
98	Jeff Kline	jekline@nps.edu	GSOIS	NPS Naval Warfare Analysis
99	Susan Sanchez	smsanche@nps.edu	GSOIS	Improving Marine Corps Logistics with Model-driven Big Data