



Human Systems Community of Interest (HS Col) Newsletter



Feb 2022



Senior Leader Perspective: I am honored to serve as the new Chair of the Reliance 21 - Human Systems Community of Interest (Col). The DoD Human Systems Committee was established in 2009. Mr. Tom Wells hosted one of the first meetings at Wright-Patterson AFB. That Committee transitioned into the Human Systems Col when Office of the Secretary of Defense developed Project Reliance and the Col construct. The Cols were established to “encourage multi-agency coordination and collaboration in cross-cutting technology focus areas with broad multiple-Component investment. Cols were to provide a forum for coordinating S&T strategies across the Department, sharing new ideas, technical directions, and technology opportunities, jointly planning programs, measuring technical progress, and reporting on the general state of health for specific technology areas.” The Human Systems Col had four initial subareas: Personnel and Training, System Interfaces, Protection and Sustainment, and Social and Cultural Modeling. The Chair position of the Human Systems Col rotates every two years and past Chairs have included Mr. Jack Blackhurst and Drs. John Tangney, Laurel Allender, Michelle Sams, Kevin Geiss, and Michelle Zbylut. Mr. Maris Vikmanis (AFRL) was the long-time lead of the Working Group and Mr. Ron Julian was his Deputy. Mr. Vikmanis served as the Air Force liaison and I served as the OSD liaison to the NDIA Human Systems Division.

Enough of the past. My primary goal for the Human Systems Col is to further enhance coordination, collaboration, and communication across the DoD research enterprise and with national and international government agencies, industry, and academia. I really value the Internal Research and Development (IR&D) Technical Interchange Meetings (TIMS) that have been co-organized by the Human Systems Col. Members of the Steering Committee can provide you with information pertaining to the various committees that they Chair or participate on throughout the year. For example, Dr. Ben Petro and his team participate on several National Science and Technology Council (NSTC) Subcommittees and have leadership roles in the Joint Human Systems Integration Steering Committee (JSHISC), DoD Human Factors and Engineering Technical Advisory Group (HFE TAG), Combat Feeding Research Executive Board, and DoD Polar Research Coordination Group (PRCG). As several of you know, I hold leadership positions within the NATO Human Factors and Medicine (HFM) Panel, The Technical Cooperation Program – Human Resources and Performance (TTCP HUM Group), and International Cooperative Program for Polar Research – Human Performance Working Group (ICE-PPR HPWG). Each member of the Human System Col, not just Steering Committee members, should use the knowledge gained from participating on these efforts to create a stronger DoD research and development strategy and program.

I have selected Dr. Jill McQuade to serve as the Lead of the Human Systems Col Working Group. She has been involved with this Col since the 2012 timeframe and has developed numerous Roadmap briefings. I am sure that Dr. McQuade and Ms. Stilling will appreciate your assistance when the Col is responsible for responding to taskers, including organizing meetings, developing briefings and funding documents.

To close, I want emphasize that my role as Chair of the Human Systems Col is to assist you in being successful. Please let me know how the Steering Committee and Working Group can assist you.

Dr. Patrick Mason, Dept Head, Warfighter Performance, Code 34, Office of Naval Research— Incoming Chair

Questions, feedback or need to reach the POC? Please contact our Col’s email at hscoi-contact@sainc.com. Thanks!

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HUMAN SYSTEMS Col

Vision: Develop & deliver technologies to enable, sustain, enhance & quantify human performance for measurably improved mission effectiveness



Mission: Enhance mission effectiveness through:

- 1) Integrated sims for mission training & experimentation
- 2) Human-machine designs for mission effectiveness,
- 3) Assessment of operator effectiveness
- 4) Operating through battlespace stresses, and
- 5) Mastering the PMESII battle space.

Key Products: Integrated service roadmaps; Col taxonomy, budget & programs; Seedling and ARAP proposals, success stories and new collaboration opportunities.

Key Personnel:

Col Chair: Dr. Patrick Mason, Office of Naval Research
OSD Chair: Dr. Ben Petro, OUSD (R&E)
Air Force Lead: Dr. Gaurav Sharma, Air Force Research Lab
Army Lead: Dr. Corde Lane, Army Research Lab
Army: Dr. Robb Wilcox, Army Research Lab
Army: Dr. Michelle Zbylut, Army Research Institute
SOCOM Rep: Ms. Lisa Sanders, SOCOM
WG Chair: Dr. Jill McQuade, Air Force Research Lab
PAE&T Lead: Dr. Kendy Vierling, Navy
SICP Lead: Dr. Mark Draper, Air Force Research Lab
PSWP Lead: Dr. Logan Williams, Air Force Research Lab

Hails & Farewells

Hail - We welcome Dr. Patrick Mason and Dr. Jill McQuade as our new Human Systems Col and Working Group Chairs! Both have a long history with our community, and are more than prepared to continue the long tradition of leadership excellence that Dr. Michelle Zbylut and Dr. Kelly Ervin just recently demonstrated.

Hail - Dr. Logan Williams is our newest Protection, Sustainment, and Warfighter Performance Subarea Lead! Dr. Williams currently serves in the 711 Human Performance Wing as the Human Performance Product Area Lead, Airman Biosciences Division. He is taking over for our longest running subarea leads, Dr. Peter Squire and Dr. Mike LaFiandra from the Office of Naval Research. Many thanks for their strong leadership in PSWP, and welcome to our newest lead!

Farewell - Dr. John Tangney is retiring, and we want to extend our sincerest thanks for his many contributions to the Col! He was Director of the Human & Bioengineered Systems Division, Code 341, Office of Naval Research as well as the Navy Lead to our Col. Dr. Tangney has been very active, not only serving as Chair from 2015 to 2017, but he was a signatory to the original HS Col Charter in 2010 along with Mr. Blackhurst of AFRL and Dr. Allender of ARL. We've benefited significantly due to his great leadership, energy, and foresight to have us emphasize Mission Effectiveness which improved our products and made our Col a more valuable asset to the Reliance 21 leadership. Enjoy your retirement and please stay in touch!

Col Highlights - Past Events

Col Annual Meeting. Last year's virtual meeting in late September successfully achieved all our objectives — reviewing FY21 accomplishments, highlighting our FY22 strategy, providing guidance, and engaging in a series of presentations to search for new collaboration opportunities. Highlights were a Steering Group Member Panel that addressed how to improve transitioning from basic to applied research, informative Service Portfolio Reviews and Subarea Updates, plus a special thanks to our many valuable customers and stakeholders who "attended" and provided key insight into their important efforts. POC: Katie Smith Stilling, Strategic Analysis, Inc.

Col Roadmap Review. Another very successful event in late 2021 was Dr. Zbylut briefing our latest roadmap to OSD staff. These reviews are held by OSD over an 18 month cycle to gain insight into the significant accomplishments as well as future S&T programs for all Cols. We received excellent feedback and are ready to execute 2022 and beyond. POC: Katie Smith Stilling, Strategic Analysis Inc.

Major Annual Events/Activities 2022	
ARAP Winner Announced (Nov 2021 Data Call)	Apr
Human Factors Engineering TAG	May
NDIA Human Systems Conference	Jun
Col Information Exchange w/OSD	Jun
Seedling Proposal Data Call	Jun
COI Annual Meeting	Sept/Oct
I/ITSEC	Nov/Dec
Bi-Annual Events	
Independent R&D (IR&D) TIM w/ Industry	TBD 2023
Roadmap Review w/OUUSD (R&E)	TBD 2023



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Col Highlights - “ Next Up ”

Applied Research for the Advancement of S&T Priorities (ARAP) Candidate. Our candidate was one of just four down selected by the Deputies Council to present a final proposal! The effort, titled “Brain Machine Interface Technology to Dominate Cognitive Warfare”, was a combined input with the C4I and Biotechnology Cols and has Dr. Andy McKinley of 711 HPW as Lead Investigator. Key milestones:

- ◇ 14 March: Read-Ahead of ARAP Proposals/Briefings Due
- ◇ 04 April: ARAP Briefings to S&T EXCOM
- ◇ 11 April: Final Decision / Announcement

Best of luck to the team going forward! POC: Katie Smith Stilling, Strategic Analysis, Inc.

NDIA Conference Save the Date. The NDIA Human Systems Division yearly conference will take place 15-16 June 2022 at George Mason University in Fairfax, VA. The theme of the conference is “Teaming at the Edge-Joint Cognitive Systems.” Look for our call for abstracts in early February and visit <https://www.ndia.org/divisions/human-systems> to access event details as they are made available. We look forward to seeing everyone at this exciting event!

POCs: Chair of NDIA HSD, Dr. Kara Orvis, Aptima, Inc. at korvis@aptima.com; Deputy Chair of NDIA HSD, Dr. Lillian Asiala, Sonalysts, Inc. at lasiala@sonalysts.com

DoD Human Factors Engineering (HFE) Technical Advisory Group (TAG) Meeting. The TAG will occur May 16-20, 2022 at the Federal Aviation Administration Aeronautical Center in Oklahoma City, Oklahoma. The Call for Abstracts is open!

Important Dates

- ◇ Abstract submissions: Closes March 18th. HS Col members at large can also compete. Submit only public abstracts with Distro A statements. Abstract submission form: <https://events.sa-meetings.com/ereg/index.php?eventid=663152>
- ◇ Registration: February 18th to May 6th
- ◇ Notification of abstract acceptance: April 1st with final presentations due May 6th

Theme: “Holistic Human Factors Engineering”

In the human factors, human performance, and Human Systems Integration (HSI) fields, there is recognition that factors combine and interact to influence efficiency, effectiveness, safety, and satisfaction related to human performance, sometimes in unpredictable ways. It is important to investigate and account for these interactions in order to reach and sustain the capability levels and operational tempo required of modern technology and warfare.

TAG #74 Highlights: Focus is on Holistic Human Factors Engineering and exploring impacts that innovative technologies, ubiquitous threats, and novel approaches have on human mental and physical health, wellness, and capabilities. A myriad of human factors techniques and technologies are relevant to this space: wearables for situation awareness; mental imagery for mastery; big-data analytics to target interventions; and mixed reality, artificial intelligence, and machine learning application to selection, training, and system maintenance.

This is a golden opportunity to garner feedback on your design and discover opportunities for collaboration. For more information, please visit the DoD HFE TAG website <https://rt.cto.mil/ddre-rt/dd-rtl/hfetag/> or social media (@DoDHfetag). POCs: Dr. Ben Petro (HFE TAG Proponent) or Dr. Liana Algarín (HFE TAG Coordinator) at OSD.

Col Information Exchange. Scheduled for June 23-24 and 27-28, 2022, this annual event allows the S&T Executive Committee to receive briefings from each Col assessing the state of technology investment in their portfolio and identify future technology opportunities to inform resource decisions. Planned as a virtual event for 2 hours each day, Cols will be allotted 30 minutes to include Q&A. Along with the Roadmap Reviews, these are outstanding opportunities for interaction with and guidance from OSD staff.

POC: Katie Smith Stilling, Strategic Analysis, Inc.



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International

Project Agreement with US and Singapore Approved. The Operational Research Collaboration for Human Improvement in Defense (ORCHID) project agreement was recently signed and approved on behalf of the Air Force Research Labs - US and The Ministry of Defense - Singapore. This Agreement is a five year collaboration looking to share and develop data, devices, algorithms and methods of application associated with warfighter physical and psychological stress or strain, such as extreme heat and humidity, night operations, or extreme physically and cognitively demanding tasks. By building upon ongoing investments and strengths from both countries, this PA is set to test and evaluate capabilities, communicate and analyze data, and share results to speed development in both countries. Singapore maintains a strong commitment to human performance research and development, and offers a good basis for equitable partnership.

POC: Dr. James Christensen, 711 Human Performance Wing, Air Force Research Laboratory

From Our Stakeholders and Partners

Join ADL in Creating an Interoperable System-of-Systems that Optimizes Learning and Development. The Enterprise Digital Learning Modernization (EDLM) reform effort launched in 2018 seeks to enable learning system interoperability across the DoD. In January 2022, the Advanced Distributed Learning (ADL) Initiative, in coordination with Defense Support Services Center and the DoD Chief Information Officer Information Enterprise, held a workshop to articulate and catalog the organizational barriers, opportunities, and corresponding actions for implementing enterprise-level digital learning interoperability.

The *goal* of the EDLM reform is to develop the technical and organizational infrastructure for a learning ecosystem to modernize career-long education and training. This ecosystem uses digital learning technologies, driven by data, to provide more effective, equitable, and modern learning opportunities across military, civilian, and DoD intel personnel. The science and technology to achieve this vision is already being implemented, but organizational and cultural barriers will limit success unless we simultaneously rethink our organizational culture and business processes, including acquisition approaches, policies, organizational incentives, resourcing, staffing, and leadership coordination. Bringing the distributed learning community together to reinforce the benefits of interoperability, while also identifying barriers to achieving this vision, proved to be valuable with over 130 attendees sharing insight on day one of the workshop. In addition to producing helpful resources from attendee input, this workshop also served as the kickoff of a Department-wide task group to help drive these reforms. Contact the ADL Initiative to get involved.

POC: Dr. Sae Schatz, The ADL Initiative, sae.schatz@adlnet.gov.

Col Accomplishments

Bold Quest 21.2 – JVT Fielding to 2d ANGLICO. From 1-11 Nov 2021, the Office of Naval Research (ONR) worked with US Marine, Joint, and Coalition Joint Terminal Attack Controllers (JTAC) in Exercise Bold Quest 21.2 at Muscatatuck and Camp Atterbury Indiana. ONR tested both the JTAC Heads Up Display, a tactical system to assist them in conducting close air support, and the Warfighter Augmented Reality system which is designed to train JFOs/JTACs in conducting supporting arms. Users found both systems valuable in enabling close air support and fire support training while providing enhanced situational awareness and increased training accessibility.

ONR performers also tested the JTAC Virtual Trainer, a virtual system designed to train JFOs/JTACs in conducting supporting arms with a view to certify it as a future system capable of achieving simulations qualifications for JTACs. Marines were impressed by the ability to conduct the full range of fire support training (except naval fires), and to use all the tools that would be available to JTACs in real world operations. Marines even requested to take the systems back to their bases to continue training and made recommendations for improvements. Overall, the participation in the exercise was successful in allowing user testing with a large number of JTACs as well as integration with live air.

POC: Dr. Peter Squire, Office of Naval Research





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Col Accomplishments (Continued)

Data Driven Decision Tools for Maritime Patrol Reconnaissance: Improving Human Performance within Complex Systems.

Due to the large quantity and breadth of variables that can impact performance in complex military aviation domains, it's nearly impossible to decipher the specific impact of any one factor or make accurate assessments of performance. However, advances in cloud based computing, data mining, algorithm development, artificial intelligence, machine learning, and data visualization have created new opportunities to fuse data, perform robust and detailed analyses, and use data in novel ways. Early in the data science movement, the Commander, Patrol and Reconnaissance Group released a statement of urgent need regarding the lack of existing Navy products that support force-wide Anti-Submarine Warfare training assessments and objective outcome-based assessments of aircrew performance that enable the measurement of force-wide tactical proficiency and implementation of focused training solutions.

From this call, the Naval Air Warfare Center Training Systems Division's (NAWCTSD) Basic & Applied Training & Technologies for Learning and Evaluation (BATTLE) Lab has developed a portfolio dedicated to the investigation of a system-of-systems toolset. These technologies, which vary in technology readiness levels, include:

- A web-based application backed by a centralized database on a secure cloud server (i.e., Post Mission Assessment for Tactical Training and Trend Analysis (PMATT-TA))
- A simulation-based automated performance measurement tool (i.e., PMATT-TA: Simulation-based Training Tools),
- A tool that leverages artificial intelligence to fuse and adjust causal data models as contexts change (i.e., Techniques to Adjust Computational Trends Involving Changing Data)
- An observer and system-based human performance analysis technology to fuse data identified teachable moments into a data-driven after action review (i.e., Aircrew Performance Measurement and Proficiency System)
- A predictive data analytics tool to identify optimal tactics given certain threats and environments (i.e., Predictive Data Analytics to Refine Aircrew Training and Operations)

From lessons learned on these efforts, the BATTLE Lab has come to the realization that exploration of available and necessary data sets, as well as the tagging and organization of data, is as imperative for success as the technology development itself. As such, the team has recently initiated the Enhancing Aviation Anti-Submarine Warfare Tactical Readiness Analysis project. For more information on these aforementioned efforts, visit the [NAWCTSD's Research Compendium](#), or contact ORLO_PDRT@navy.mil to discuss cross-service collaboration opportunities.

POC: Ms. Beth Wheeler Atkinson, Naval Air Warfare Center Training Systems Division

Publications/Articles

National Academy of Sciences Report on Artificial Intelligence. Recognizing the many challenges that artificial intelligence (AI) many have for human performance, the Air Force Research Laboratory's 711 Human Performance Wing (HPW) asked the National Academies of Sciences, Engineering, and Medicine to convene an expert committee to examine and recommend research to guide the appropriate use of this technology in future operations. In particular, the 711 HPW was interested in AI-related challenges associated with the emerging area of multi-domain operations. The resulting committee, which included experts in human factors, cognitive engineering, human-computer interaction, AI, as well as experts in military operations related to human-autonomy teaming, assessed the state of research on human-AI teaming and determined gaps and future research priorities.

The committee's report "Human-AI Teaming: State-of-the-Art and Research Needs" has recently been released. It examines the factors relevant to the design and implementation of AI systems with respect to human operations and recommends needed research for achieving successful performance across teams of AI and human decision makers. Identified research priorities include strengthening team effectiveness and processes, strengthening interaction mechanisms and strategies, developing training to support human-AI environment, and priorities related to decision biases, situation awareness, trust, and development of team models. The entire report can be accessed at the National Academies of Sciences, Engineering, and Medicine website. POC: Dr. Mark Draper, 711 Human Performance Wing, Air Force Research Laboratory



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Publications/Articles (Continued)

DEVCOM Special Report on Processing Human Systems Integration Data.

Author: *Dr. David Scribner*

Abstract: This report, titled “A User’s Guide to Processing Your Human Systems Integration (HSI) Data” was prepared for the HSI community of practice, but is also relevant for researchers and analysts of all types. The information is intended to assist ensuring the normality assumption is met for your data set before doing your most commonly used parametric statistics that require normalized data such as t-tests and linear regressions. The report outlines the four basic steps to properly treat your data in reviewing the data sets: 1) the treatment of missing data, 2) identifying outliers, 3) examining the normality of your data, and 4) transforming the data to account for skewness in data. These steps are arguably the most important for parametric statistical tests, but are often skipped or ignored which can cause non-optimal statistical findings. They also apply to any of your customers, partners or contractors who are performing statistical analysis.

The DEVCOM 2021-SR-003 report can be found at <https://apps.dtic.mil/sti/citations/AD1137682>.

POC: Dr. Dave Scribner, DEVCOM Analysis Center

Air Force Research Labs and University of Cincinnati Collaboration on Innovative Biosensing Technology

Authors: *Dr. Steve Kim, Ms. Debrosse (Defense Associated Graduate Student Innovators (DAGSI) student), Dr. Brothers, Dr. Hussain, along with Dr. Heikenfeld’s team at U. Cincinnati*

Abstract: The authors published a research article titled “Oil-Membrane Protection of Electrochemical Sensors for Fouling- and pH-Insensitive Detection of Lipophilic Analytes” in the American Chemical Society Applied Materials and Interfaces Journal (impact factor 9.23). The presented work emphasized recent progress in highly generalizable methods for reducing background noise, allowing electrochemical sensors to address a much wider spectrum of analytes beyond the current limit of existing biosensors. This work provides a key technical milestone to the Health and Performance Sensing and Assessment Core Research Area task to develop wearable chemical and biochemical monitors for human performance monitoring and protection.

DOI: <https://doi.org/10.1021/acsami.1c14175>

POC: Dr. Steve Kim, 711 Human Performance Wing, Air Force Research Laboratory



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Col Contact Information

Human Systems Col – STEERING GROUP MEMBERS		
Agency	Position/Organization	Name
Navy (Chair)	Dept Head, Warfighter Performance, Code 34, ONR	Dr. Patrick Mason
Army Lead	Director, Human Research and Engineering Directorate (HRED) - Army Research Labs (ARL)	Dr. Jason Corde Lane
AF Lead (Acting)	Chief Scientist, 711 th Human Performance Wing (711 HPW), Air Force Research Laboratory (AFRL)	Dr. Gaurav Sharma
Army	Director, Army Research Institute (ARI)	Dr. Michelle Zbylut
SOCOM	Director, SOF AT&L Science & Technology	Ms. Lisa Sanders
Army	S&T Lead Soldier System Performance, DEVCOM Soldier Center	Dr. Robb Wilcox
Army	Chief, Human Systems Integration Division, Data & Analysis Center	Dr. Thomas Davis
OUSD (R&E)	Director, Human Systems Directorate (HSD)	Dr. Ben Petro
DIU	Director, Human Systems Portfolio	Dr. Christian Whitchurch
Human Systems Col – HSD Support		
OUSD (R&E)	Contractor Support (Strategic Analysis)	Dr. Laura Kallal
OUSD (R&E)	Contractor Support (Strategic Analysis)	Dr. Liana Algarín
OUSD (R&E)	Contractor Support (Peraton)	Ms. Natalie Drzymala
OUSD (R&E)	Contractor Support (Peraton)	Dr. Jill Conover
Human Systems Col – Working Group Members		
AF (WG chair)	711 HPW, Air Force Research Lab	Dr. Jill McQuade
Army	Army Research Institute	Dr. Kelly Ervin
Air Force	711 HPW, Air Force Research Lab	Dr. Glenn Gunzelmann
Navy	Office of Naval Research	Dr. Kristy Hentchel
Navy	Office of Naval Research	CDR Jake Norris
Army	Army Research Institute	Dr. Richard Hoffman
Army	Senior Research Scientist (ST) for Soldier Performance in Socio-Technical Systems	Dr. Jessie Chen
Army	Army Research Lab	Ms. Rachel Weatherless
Army	CCDC Soldier Center	Ms. Karen Gregorczyk
DIU	Human Systems Portfolio	CDR Niels Olson
Human Systems Col – HSD Support		
OUSD (R&E)	Contractor Support (Strategic Analysis)	Ms. Katie Stilling
OUSD (R&E)	Contractor Support (MITRE Corp)	Dr. Carolyn Parish
Air Force	Contractor Support (JYG Innovations Inc)	Mr. Al Livada
OUSD(R&E)	Contractor Support (MITRE Corp)	Dr. Tracy Sanders



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Human Systems Col – SUB-AREA LEADS & MEMBERS		
Personalized Assessment, Education, and Training (PAE&T)		
Navy	Director, Naval Education Division	Dr. Kendy Vierling
Air Force	AFRL 711 Human Performance Wing (HPW)	Dr. Glenn Gunzelmann
Army	ARI (Ft Benning)	Dr. Greg Ruark
Army	ARL (NSA Orlando)	Mr. Rodney Long
Navy	Naval Research Laboratory	Dr. Mark Livingston
ADL	Director, Advanced Distributive Learning	Dr. Sae Schatz
DLNSEO	Defense Language, Nat'l Security Education	Dr. Michael Nugent
DODHRA	DOD Human Resources Activity	Dr. Shannon Salyer
Navy	ONR (Code 34)	Dr. Ray Perez
Navy	ONR (Code 34)	LCDR Pete Walker
Navy	Naval Air Warfare Command, Training Systems	Dr. Jim Pharmer
Navy	Naval Air Warfare Command, Training Systems	Dr. Melissa Walwanis
Army	ARL West	Dr. Pete Khooshabehadeh
Army	CCDC-ARL-HRED	Dr. Kimberly Pollard
Army	ARL	Dr. Ben Files
Air Force	HQ Air Education and Training Command AETC	Mr. Roger Corbin
Air Force	HQ Air Education and Training Command AETC	Ms. Melissa Garmoe
Air Force	HQ Air Education and Training Command AETC	Dr. Stephen Katrein
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Air Force	AFRL, 711 HPW	Dr. Megan Morris
Air Force	AFRL, 711 HPW	Dr. Christopher Myers
Air Force	AFRL, 711 HPW	Mr. Tom Rice
Air Force	AFRL, 711 HPW	Dr. Jennifer Winner
Protection, Sustainment, & Warfighter Performance (PSWP)		
Navy - Lead	ONR Code 34	Dr. Peter Squire
Army - Lead	ARL - HRED	Dr. Michael LaFiandra
Army WG	CCDC — Soldier Center	Ms. Karen Gregorczyk
Army	CCDC— Soldier Center	Dr. John Ramsay
AF Lead	AFRL 711HPW	Dr. Logan Williams
AF	AFRL, 711 HPW	Dr. Curt Grigsby
AF	AFRL, 711 HPW	Dr. James Christensen
AF	AFRL, 711 HPW	Dr. John Schlager
AF	AFRL, 711 HPW	Ms. Roxanne Constable
AF	Air Force Futures, A5	Maj. Lea Johansen
Navy WG	ONR Code 34	Dr. Kristy Hentchel
Navy	ONR Code 34	Dr. Sandra Chapman
Navy	ONR Code 34	LCDR Josh Swift
Navy	ONR Code 34	Mr. Keith King
Navy	Space & Naval Warfare Systems Command	Dr. Karl Van Orden
Navy	DON Secretariat at ASN(M&RA)	Dr. Kendy Vierling
Navy	Nav Surface Warfare Center Dahlgren	Dr. Alex Kniffin



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System Interfaces and Cognitive Processing (SICP)		
AF - Lead	AFRL 711 HPW	Dr. Mark Draper
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Army	Army Research Laboratory	Dr. Jeff Hansberger
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Navy	ONR Code 34	Dr. Jeff Morrison
Air Force	AFRL 711 HPW	Dr. Tamara Chelette
Air Force	AFRL 711 HPW	Dr. Laurie Fenstermacher
Air Force	AFRL 711 HPW	Mr. Eric Hansen
Air Force	AFRL 711 HPW	Dr. Daniel Zelik
Army	Army Research Office (ARO)	Dr. Edward Palazzolo
Army	ARO	Dr. Lisa Troyer
Navy	ONR Code 34	Dr. Rebecca Goolsby
Navy	Naval Surface Warfare Center	Dr. Jessica Jones
Navy	COMPACFLT N5	Dr. Dale Russell
Air Force	AFRL 711 HPW	Dr. Joe Lyons
Air Force	AFRL 711 HPW	Dr. Gaurav Sharma
Navy	Naval Surface Warfare Center	Dr. Aaron Rowen
DEVCOM	Army Research Laboratory	Dr. Jeremy Gaston