



# Human Systems Community of Interest (HS Col) Newsletter



Aug 2022



**Senior Leader Perspective:** I have been involved with the HS Col for a couple of years already, but am looking forward to continuing to participate, representing the 711 Human Performance Wing in my new role as the Chief Scientist with research spanning all three subareas of the Col. I am hoping to use the Col to engage with leaders and subject matter experts across the DoD to build collaborative efforts across this community. I see great opportunity to reach out to new potential partners, engage in technical discussions, and generate paths forward in the development of innovative technical solutions to meet the needs of the DoD.

I believe the Col should continue to encourage collaborative projects between the services based on the direction that the individual service laboratories envision for the future of Human Systems research. In this fiscally constrained environment, it is more important than ever to look for opportunities to leverage each other's work. Let's utilize the upcoming annual meeting to reinvigorate our relationships and strengthen our communication and collaboration.

*Dr. Gaurav Sharma, Chief Scientist, 711th Human Performance Wing, HS Col Steering Committee Member*

## HUMAN SYSTEMS Col

**Vision:** Develop/deliver technologies to enable, sustain, enhance & quantify human performance



**Mission:** Enhance the warfighter 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.

### Key Personnel:

- Col Chair:** Dr. Patrick Mason, Office of Naval Research  
**OSD:** Dr. Michael Holthe, OUSD (R&E)  
**Air Force:** Dr. Gaurav Sharma, Air Force Research Laboratory  
**Army:** Dr. Jeremy Gaston, Army Research Lab  
**Army:** Dr. Robb Wilcox, Army Research Lab  
**Army:** Dr. Michelle Zbylut, Army Research Institute  
**SOCOM:** Ms. Lisa Sanders, SOCOM  
**ExecSec:** Dr. Jill McQuade, Air Force Research Laboratory  
**PAE&T Lead:** Dr. Elizabeth Uhl, Army Research Institute  
**SICP Lead:** Dr. Mark Draper, Air Force Research Laboratory  
**PSWP Lead:** Dr. Logan Williams, Air Force Research Laboratory

## Hails, Farewells & News

**Hail/Farewell** - Welcome to our new OSD rep on the Steering Committee, Mr. Michael Holthe, Director of Emerging Technologies, OUSD(R&E). He's replacing Dr. Ben Petro who is now Director of Laboratories, FFRDCs and UARCs within S&T Foundations at OUSD(R&E). Dr. Petro, we greatly appreciate your tremendous insights and best of luck as Director!

**Hail/Farewell** - In a second Steering Committee change, we welcome Dr. Jeremy Gaston, Chief of Humans in Complex Systems Division DEVCOM – ARL. He's replacing Dr. Corde Lane who will continue as the HRED Director awaiting assignment. Many thanks Dr. Lane for your leadership, and we also look forward to new perspectives from Dr. Gaston and Mr. Holthe!

**Hail/Farewell** - Please welcome our newest PAE&T Sub-Area Lead, Dr. Elizabeth Uhl from the Army Research Institute. She's replacing Dr. Kendy Vierling who thankfully will continue as a PAET member. We appreciate all your hard work Kendy!

**Farewell** - Dr. Liana Algarain is leaving OUSD(R&E) to pursue new opportunities. Liana provided outstanding support as Dr. Ben Petro's rep on the Col Project Team. Best to you in your new endeavor, and thanks for all your support!

**Great News** - Dr. Robb Wilcox has been promoted to Chief Scientist at the US Army Combat Capabilities Development Command Soldier Center (CCDCSC). Congratulations Dr. Wilcox on your exciting new role!

**More Great News** - Drs. Tammy Chelette and Andy McKinley of the 711th Human Performance Wing were awarded the very prestigious honor of Air Force Research Laboratory Fellows. We're very fortunate to have both actively involved in our Col!

**Questions, feedback or need to reach the POC?** Please contact our Col's email at [hscoi-contact@sainc.com](mailto:hscoi-contact@sainc.com). Thanks!

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## Col Highlights - Past Events

**NDIA Human Systems Division Conference.** NDIA held another successful Human Systems Conference from 15-16 June at George Mason University in Arlington VA. A total of 107 participants from government, industry, and academia registered for the conference.

- ◆ Keynote speakers were Mr. Michael Sorrento, Director, Defense Manpower Data Center presented on a future vision for data use in the DoD and Dr. David Honey, Deputy Under Secretary for Defense for Research and Engineering gave an informative talk touching on recent changes to his organization, critical technologies, and the role of AI and human-machine teaming.
- ◆ Human Systems Col leaders presented informational presentations for industry as in years past. Dr. Patrick Mason gave an overview of the Human Systems Col followed by track presentations from the government sub area leads in 1) Protection, Sustainment, and Warfighter Performance, 2) Personalized Assessment, Education, and Training, and 3) System Interfaces and Cognitive Processes. We added a fourth topic area for Advocacy and Metrics.
- ◆ Industry also presented their ongoing research and development activities. Presentations and posters touched on topics related to human-machine teaming, team and individual assessment, Augmented Reality/Virtual Reality training, artificial intelligence, training evaluation, and pilot performance as it relates to hydration. Attendee survey data was captured after the event with a very positive response to the presentations and posters. They particularly appreciated the ample time provided for networking.

⇒ Visit <https://www.ndia.org/divisions/human-systems/past-events-and-proceedings> for the full agenda and presentations.

Stay tuned for the “Save the Date” for our March 2023 conference!

POCs: Kara Orvis, Aptima, Inc., Chair of NDIA HSC and Lillian Asiala, Sonalysts, Inc., Deputy Chair

**Col Information Exchange.** This event is held annually for OSD’s S&T Executive Committee to receive a briefing from each Col assessing the state of technology investment in their portfolio, as well as identify future technology opportunities to better inform resource decisions. The July briefing was given by Dr. Mason as the Col Chair and very well received by the OSD staff!

POC: Katie Smith Stilling, Strategic Analysis, Inc.

**OSD Seedling Proposal Data Call.** OSD issued a data call for their Seedling Program which has the vision to advance the early stages of research areas that create and build DoD capability to meet joint war-fighter needs. We submitted a strong proposal titled “Operationalizing Brain Machine Interface to Enable Human Machine Teaming”, with lead out of the 711 Human Performance Wing, The announcement from OSD of the winning proposal should happen @ 23 August.

POC: Katie Smith Stilling, Strategic Analysis, Inc.

## Col Highlights - “Next Up “

**Col Annual Meeting.** This year’s meeting will be held on October 26th and 27th in Arlington as a hybrid event. The meeting objectives are to review FY22 accomplishments, discuss FY23 strategy, provide guidance, and engage in a series of presentations between the Col and its vital partners and stakeholders to hopefully find new collaboration opportunities. Key agenda items will be a Steering Committee Member Panel, Service Portfolios, Subarea Updates, as well as many other interesting and informative briefings from our partners and stakeholders. We’re looking forward to another dynamic event involving our Human Systems Community!

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/OUSD (R&E)	TBD 2023





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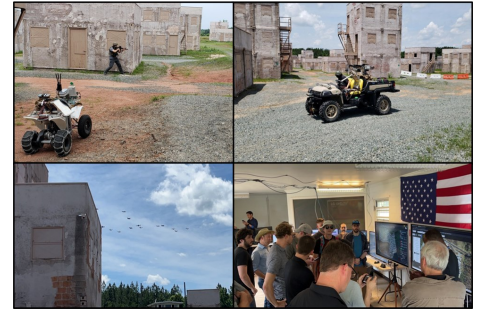


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## Col Accomplishments (Continued)

### Office of Naval Research's Logan's Run Exercise

Kobol Experimentation at Logan's Run was an ONR-sponsored unscripted force-on-force experiment that took place at the Urban Training Center on Marine Corps Base Quantico from June 5-10, 2022. The experiment was focused on exploring hierarchical autonomy-supported command structures employed by expeditionary human-machine teams within a dynamic urban tactical environment. ONR funded scientists and engineers under Dr(s). Kristy Hentchel, Tom McKenna, Jeff Morrison, CDR Jake Norris, Michael "Q" Qin, and Peter Squire, as well as a data collection team funded by the OSD's Test Resource Management Center, participated in the experiment, in-stride experimentation monitoring, and tactical/technology focused After-Action Reviews (AARs).



**Outcomes:** Kobol experiments provide key employment feedback and engineering testing to early-stage technology Investments (6.1 - 6.2). Logan's Run provided valuable feedback to ONR AI and Automation developers on data collection opportunities and next-generation AAR programs. Specifically, the Training Environment for Advanced Marine Skills (TEAMS) program contributed geo-specific virtual generation techniques to develop realistic representations of the Quantico environment. TEAMS performers also leveraged the experiment to gather spectrum and imagery data and test new concepts of employment and after-action reporting. Logan's Run participants will continue their program development, with many planning to participate at the next ONR-funded event in the Fall.

POC: Dr. Peter Squire, Office of Naval Research

### AFRL Completes Initial Phase of Biodynamic Research in Collaboration with NASA



The Biodynamics Team within the 711 Human Performance Wing recently completed over 40 impact acceleration tests using the pictured Vertical Deceleration Tower and the Horizontal Impulse Accelerator as part of a multi-phased joint research effort funded by the NASA Johnson Space Center.

**Purpose:** Investigate the occupant safety and structural integrity of the NASA Orion, Space-X, and Boeing space-capsule seats by measuring the dynamic response of both human and Articulated Test Device (ATD) occupants exposed to impact accelerations similar to those experienced by astronauts during space capsule landings.

The recent impacts were conducted with the prototype Boeing seat using two different sized anthropomorphic ATDs that were fully instrumented with sensors to measure reaction accelerations and forces. Impact tests with human subjects using the Boeing seat are the next scheduled portion of the collaboration. The data will be used to ensure occupant responses are within safe injury risk levels accepted by NASA and AFRL, that the restraint equipment functions properly, the seat structure remains intact, and to provide validation for the development of related computational models. Finally, both the ATD and human response data will be entered into the AFRL Collaborative Biomechanics Data Network for potential use in Space Force applications.

⇒ Future impact efforts with the NASA Orion and Space-X seats are schedule for later in FY 22

POC: Drs. Chris Perry and John Buhrman, 711th Human Performance Wing

### Infantry Officer Course (IOC) Heat Monitoring Event

On 30 June, ONR and Army research personnel assisted Marine Corps in monitoring the IOC locations, core body temperatures, and heart rates of Marines while conducting a hike aboard Marine Corps Base Quantico. The intent is support training school personnel to reduce heat casualties and quickly locate and evaluate lieutenants who are reading higher core temperatures along with an elevated heart rate. The next step is to support four additional hikes at Quantico and receive feedback on the setup and communication network.

POC: Dr. Peter Squire, Office of Naval Research



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## Col Accomplishments (Continued)

### 711th HPW Human Systems Integration (HSI) Skyborg Effort

The Skyborg team is working within the emerging collaborative combat aircraft (CCA) domain, and while the initial focus was on how CCA human machine interfaces (HMIs) influenced aspects such as operator cognitive workload, situation awareness, and mission planning and debrief, the team has since added research elements of training, trust, and ethics. A subset of the team developed an initial Model Based System Engineering schema for CCA HSI applications while another group finished the Cognitive Task Analysis for Air Battle Managers (ABM). *Highlight:* The Cognitive team identified 58 areas where intelligent agents (IAs) can support ABMs by offloading tasks to IAs onboard manned collaborative aircraft — this can reduce and mitigate increases in cognitive workload.

Another facet is AFRL's Supervisory Handling Platform for Remote Direction (SHPRD) system which serves as a foundational air and ground C2 system to support human-autonomy teaming research with, and separate from, manned flight lead integration. The team used SHPRD to explore CCA transit control to include grouping and handoffs to/from other SHPRD systems that acted as Air Traffic Control and additional airborne control elements as well as maintaining awareness while the CCAs were under a forward deployed fighter aircraft. Integration of manned flight lead capabilities, such as commanding air-to-air-like engagements/searches from fighter cockpits, are being researched and shared with our research partners.

Finally, the team has rapidly integrated operator and SME feedback data to support ground integration and flight test events on the General Atomics MQ-20 and the USAF Test Pilot School's X-62A platforms. The team's air and ground HMIs are also in place at the Emerging Technology-Combined Test Force HSI section at Edwards AFB to support UAV flight tests. The Test Force has provided initial heuristic assessments and feedback on HSI areas, such as mission planning considerations, execution, workload, and training.

⇒ Key milestone: Flight tests on the X-62A are scheduled for later this year

POC: Ms. Kristen Barrera, 711th Human Performance Wing

### U.S. Army Research Institute Counseling Enhancement Tool

Challenge: NCOs have limited opportunities to enhance interpersonal and written communication skills needed to lead, train, and take care of their Soldiers.

Impact: The Counseling Enhancement Tool (CET) will provide NCOs with guidance on effective interpersonal communication skills to be used during developmental counseling with Soldiers.

#### Accomplishments and Transitions:

- ◆ On schedule to transition the Counseling Enhancement Tool to Mission Command Center of Excellence in 4QFY22
- ◆ NCO Leadership Center of Excellence made the CET available to NCOs across the force via NCO Worldwide. More at <https://www.ncoworldwide.army.mil/Resources/Leader-Tools/Counseling-Enhancement-Tool/>
- ◆ U.S. Army Forces Command will be including the CET in their upcoming "Leader Development Guide"

POC: Dr. Richard Hoffman, U.S. Army Research Institute

**Army Small Unit Performance Analytics (SUPRA) Team works with 82nd Airborne Division.** DEVCOM Soldier Center MASTR-E's SUPRA research team completed its fourth data collection event with supporting infantry squads from the 1-504th 82nd Airborne Division. Four squads completed the testing at Ft. Devens, MA with all squads completing multiple iterations of Battle Drills called "Conduct a Squad Assault" and "Enter and Clear a Room" in an instrumented Situational Training Exercise Lane and Shoot House.

Data collected from participating squads included location and movement data, communication data, physiological status monitoring, marksmanship and lethality outcomes, and Observer Controller assessment data. The data collected will be added to the existing dataset of 16 squads for a total of 20 dismounted infantry squads tested to date. This information will be analyzed and used in support of critical SUPRA program deliverables, including the development of quantitative, in-field, collective performance metrics for the dismounted infantry when engaging in close quarters combat.

⇒ The MASTR-E SUPRA Team plans to conduct additional testing with 13 more squads in FY22 and FY23

POC: Ms. Karen Gregorczyk, CCDC — Soldier Center



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## Col Accomplishments (Continued)

### AFRL Grand Challenge Delivering Warfighter-Focused Engineered Probiotic

AFRL has initiated a \$1M, 1-year, Grand Challenges "Probiotics for human performance sustainment and enhancement." to provide biotechnology solutions aligned with Air Force needs. The winning proposal came from a team consisting of thought leaders from MIT, Tufts, and Synlogic Inc. The engineered probiotic has been optimized to produce a molecule that will sustain warfighter focus and fatigue resiliency in deployed environments, and testing of this probiotic in a state-of-the-art in vitro model has confirmed its activity. Scale-up optimization towards a consumable product is ongoing, but to date 5g of the product has been produced. The collaboration also facilitates personnel exchange to accelerate knowledge transfer between the labs. The output of this challenge will directly impact the Fatigue Optimized Cognition under Stress program, and maintains 711 Human Performance Wing as a recognized leader in the DoD Biotechnology community.

POC: Dr. Michael Goodson, 711 Human Performance Wing

## Publications/Articles

### "I think you are trustworthy, need I say more?" The Factor Structure and Practicalities of Trustworthiness Assessment.

*Authors: Drs. August Capiola, Michael Lee, and Gene Alarcon*

**Abstract:** Two popular models of trustworthiness have garnered support over the years. One has postulated three aspects of trustworthiness as state-based antecedents to trust. The other has been interpreted to comprise two aspects of trustworthiness. The present research aimed to consider this debate by investigating the factor structure of trustworthiness. Taking items from two scales commonly employed to assess trustworthiness, we leveraged structural equation modeling to explore which theoretical model is supported by the data in an organizational trust context. The best-fitting model was a bifactor model comprising one general trustworthiness factor and ability, benevolence, and integrity grouping factors.

These results suggest respondents typically employ a general factor when responding to items assessing trustworthiness, and researchers may be better served treating the construct as unidimensional or engaging in scale parceling of their models to reflect this response tendency more accurately.

DOI: <https://doi.org/10.3389/fpsyg.2022.797443> Frontiers in Psychology 13, (2022)

POC: Dr. Capiola, Office of Naval Research

### Wearables Article Published in Sensors & Diagnostics

*Authors: Drs. Steve Kim, Saber Hussain and Amy Drexelius*

**Abstract:** Modern rapid diagnostic tests have continued to improve in performance and convenience, including the proliferation of point-of-care and the emergence of continuous wearable diagnostics. Frequently, these tests are challenged in their sensitivity and their limit of detection, especially for disease detection in its early stages where analyte concentration can be lower, leading to false negative test results. Titled "Opportunities and Limitations of Membrane-based Preconcentration for Rapid and Continuous Diagnostic Applications", this research highlights two leading methods for membrane-based preconcentration, high-pressure pneumatic and osmotic preconcentration, which have the greatest potential because they can operate with the speed (minutes) required for rapid diagnostic tests. Using these simple yet effective methods, molecular biomarker concentration can increase by a factor of 100× or more, both in buffer and in biofluids, enabling rapid human cognitive and performance assessment.

DOI: <https://doi.org/10.1039/D2SD00002D>, Sensors & Diagnostics

POC: Dr. Steve Kim, 711th Human Performance Wing



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## Col Contact Information

Human Systems Col – STEERING COMMITTEE		
Agency	Position/Organization	Name
Navy (Chair)	Dept Head, Warfighter Performance, Code 34, ONR	Dr. Patrick Mason
Army	Chief, Humans in Complex Systems (HCxS) Division—Army Research Lab (ARL)	Dr. Jeremy Gaston
AF	Chief Scientist, 711 <sup>th</sup> 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	Chief Scientist, Soldier Performance and Optimization, US Army Combat Capabilities Development Command Soldier Center (CCDCSC)	Dr. Robb Wilcox
Army	Chief, Human Systems Integration Division, Data & Analysis Center	Dr. Thomas Davis
OUSD (R&E)	Director of Emerging Technologies	Mr. Michael Holthe
DIU	Director, Human Systems Portfolio	Dr. Christian Whitchurch
Human Systems Col – HSD Support		
OUSD (R&E)	Contractor Support (Strategic Analysis)	Dr. Laura Kallal
Human Systems Col – Executive Secretariat Members		
AF (chair)	711 HPW, Air Force Research Laboratory	Dr. Jill McQuade
Army	Army Research Institute	Dr. Richard Hoffman
Air Force	711 HPW, Air Force Research Laboratory	Dr. Glenn Gunzelmann
Navy	Office of Naval Research	Dr. Mike LaFiandra
Navy	Office of Naval Research	CDR Jake Norris
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)		
Army	Army Research Institute (ARI)	Dr. Elizabeth Uhl
Navy	Naval Education Division	Dr. Kendy Vierling
Air Force	AFRL, 711th Human Performance Wing (711 HPW)	Dr. Glenn Gunzelmann
Army	ARI (Ft Benning)	Dr. Greg Ruark
Army	Army Research Lab (ARL-NSA Orlando)	Mr. Rodney Long
Navy	Naval Research Laboratory	Dr. Mark Livingston
ADL	Director, Advanced Distributive Learning	Dr. Laura Milham
DLNSEO	Defense Language, Nat'l Security Education	Dr. Michael Nugent
DODHRA	DOD Human Resources Activity	Dr. Shannon Salyer
Navy	Office of Naval Research (ONR code 34)	Dr. Natalie Steinhauser
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	Army Research Lab (ARL) West	Dr. Pete Khooshabehadeh
Army	Combat Capabilities Development Command	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	AFRL, 711 HPW	Dr. Christopher Stevens
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
Navy	Nav Surface Warfare Center Crane	Dr. Siddharth Maini
Protection, Sustainment, & Warfighter Performance (PSWP)		
AF (LEAD)	AFRL, 711th Human Performance Wing (711 HPW)	Dr. Logan Williams
Navy	ONR Code 34	Dr. Peter Squire
Army	CCDC – Soldier Center	Ms. Karen Gregorczyk
Army	Office of Naval Research	Dr. Michael LaFiandra
Army	CCDC— Soldier Center	Dr. John Ramsay
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	Dr. Joel Bixler
AF	Air Force Futures, A5	Maj. Lea Johansen
AF	AFRL, 711 HPW	Dr. Craig Narasaki
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





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System Interfaces and Cognitive Processing (SICP)		
AF - Lead	AFRL, 711th Human Performance Wing (711 HPW)	Dr. Mark Draper
Air Force	AFRL, 711 HPW	Mr. Ed Davis
Air Force	AFRL, 711 HPW	Dr. Vince Schmidt
Army	CCDC—Soldier Center	Dr. Caroline Mahoney
Army	Army Research Laboratory	Dr. Katherine Cox
Army	Army Research Laboratory	Dr. Jeff Hansberger
Navy	Office of Naval Research (ONR) Code 34	Dr. Tom McKenna
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
Army	DEVCOM—Army Research Laboratory	Dr. Jeremy Gaston
Navy	Nav Surface Warfare Center Crane	Dr. Siddharth Maini