





Calhoun: The NPS Institutional Archive

Consortium for Robotics and Unmanned Systems Education a Callus Esta Anathli (Callus Esta) i (

2016-09

CRUSER Warfare Innovation Continuum (WIC) Workshop 2016

Monterey, California: Naval Postgraduate School

http://hdl.handle.net/10945/49833



Calhoun is a project of the Dudley Knox Library at NPS, furthering the precepts and goals of open government and government transparency. All information contained herein has been approved for release by the NPS Public Affairs Officer.

> Dudley Knox Library / Naval Postgraduate School 411 Dyer Road / 1 University Circle Monterey, California USA 93943

Q

CRUSER

Home Join CRUSER Monthly Meeting CRUSER Sponsored Events CRUSER News ▼ Education ▼ Research ▼ Resources About Us ▼

CRUSER Events

CRUSER sponsors several events in support of our yearly innovation thread.

2016_09 Warfare Innovation Workshop

2016_07 CRUSER TechCon

2016_05 CRUSER Expo 2016

2016_04 Robots in the Roses

2016 03 RoboEdu

2015_09 Warfare Innovation Workshop

2015 04 TechCon

2015_04 Robots in the Roses

2015_04 Robo Ethics

2015_03 Warfare Innovation Workshop

2015_03 CRUSER Colloquium

2015 01 CRUSER Colloquium

2014_09 Warfare Innovation Workshop

2014_05 Mine Warfare Symposium

2014_05 CRUSER Tech Expo

2014_04 TechCon

2014_04 Robots in the Roses

2014_03 RoboEthics

2013_09 Warfare Innovation Workshop

2013_09 RoboEthics

2013_04 TechCon

2013_04 Robots in the Roses

2013_03 Warfare Innovation Workshop

2012_10 Fleet Week

2012_09 Warfare Innovation Workshop

2012_05 TechCon

2012_05 Robots in the Roses

2012_01 RoboEthics

2012_01 CRUSER Lecture

2011_11 CRUSER Lecture

2011_09 Warfare Innovation Workshop

2011_08 CRUSER Lecture

2011_03 Robots in the Roses

2016_09 Warfare Innovation Workshop



CRUSER Warfare Innovation Continuum (WIC) Workshop 2016

Details

Date: 19-22 Sept 2016Times (see Schedule)

• Location: Naval Postgraduate School, Monterey, CA

Description (Download WIC-16 Fact Sheet Here)

To support the first line of effort stated in the guidance promulgated by the Chief of Naval Operations in January 2016, the 2016 WIC Workshop will explore robotics and autonomous systems – in particular how increased autonomy will enhance alternative fleet designs, including kinetic and non-kinetic payloads and both manned and unmanned systems. This effort will explore new naval platforms and formations – in a highly "informationalized" environment – to meet combatant commander needs. Small teams of junior officers from NPS and the fleet, and early career engineers from Navy labs, academia and industry will propose technologies and employment concepts in scenario based discussions. Teams will brief their conclusions to sponsors, industry executives, and senior officers on the final morning of the workshop, and these results will be disseminated to fleet commands.

This CRUSER sponsored Warfare Innovation Continuum (WIC) workshop will begin with a day of knowledge leveling briefs, followed by two days of facilitated team concept generation work. The workshop will conclude with a morning of final concept briefs to senior leaders.

Schedule (download pdf here)

MON - 19 September

0800	Registration	GLASGOW 102
0830	Introduction	Dr. Ray Buettner, NPS CRUSER Director
0835	Welcome	VADM Ron Route USN (Ret.), NPS President
0845	CRUSER Overview	Dr. Brian Bingham, NPS CRUSER Deputy Director
0900	NPS Warfare Innovation Continuum	CAPT Jeff Kline USN (ret), NPS Chair of Systems Engineering Analysis (SEA)
0915	Tactical Training Using Virtual Environments	Dr. Thomas Holland, NAVAIR

0940	Mesh Networks for Battlespace Awareness	Dr. Alex Bordetsky, NPS CENETIX
1005	Multi-Domain Collaborative Autonomy	Dr. Sekhar Tangirala, Lockheed Martin
1025	BREAK	
1040	Mine Sweeping	Mr. Jon Wood and Dr. Chris Haworth, SeeByte
1105	Integrated Fires	Ms. Margie Palmieri, OPNAV N2/N6
1130	Team Introductions	Ms. Lyla Englehorn: NPS CRUSER Associate Director
1140	LUNCH	
1300	Design Seminar	Mr. Jay Hum, Pivotal Labs
1430	Scenario & Tasking	CAPT Jeff Kline USN (ret), NPS SEA Chair
1500	Initial Team Meetings	BREAKOUT ROOMS
1600	lcebreaker	TRIDENT ROOM
TUES - 20 September		
0800	Welcome	CAPT Jeff Kline USN (ret), NPS SEA Chair
0810	Localized Autonomy	Dr. Ray Buettner, NPS CRUSER Director
0830	Data-Driven Tactical Simulation	Dr. Don Brutzman, NPS USWAG
0855	C4ISR for Unmanned Systems	Dr. Michael Tall, SSC PAC
0925	Cybersecurity Risk Assessment	CAPT Reza Ghaffari, NAVAIR
0950	Process	Ms. Lyla Englehorn, NPS CRUSER Associate Director
1015	Concept Generation – Divergent	BREAKOUT ROOMS
WED - 21 September		
0800	Welcome	Mr. Carl Oros, NPS CRUSER Associate Director
0810	Issues in Autonomy	Mr. Ian MacLeod, JHU/APL
0835	Lessons in Naval Innovation: Strategic Studies Group	Mr. William Glenney, Naval War College

0900	Concept Review	CAPT Jeff Kline, USN (ret), NPS Chair of SEA
0930	Concept Generation – Convergen	t BREAKOUT ROOMS
1030	Directors & Chairs Rotation	BREAKOUT ROOMS
1200	LUNCH	
1300	Prepare Final Concept Briefs	BREAKOUT ROOMS
THUR - 22 September		
0800	Team Photos & Evaluation	GLASGOW 102
0830	Final Briefs	GLASGOW 102
1200	ADJOURN	

To Participate

This workshop is open to all NPS students – *all curriculums, all services*, DoD personnel from other commands and labs, and vetted CRUSER members from academia and industry. To be considered for a spot on a concept generation team, please submit a bio or CV/resume by email to wiw@nps.edu. To participate as an observer or mentor, please send a request by email to wiw@nps.edu to be placed on the roster.

Contact

Jeff Kline, NPS SEA Chair or Ms. Lyla Englehorn, MPP, CRUSER Assoc. Director, laengleh@nps.edu

