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CRUSER (Consortium for Robotics and Unmanned Systems Education and Research)

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CRUSER Technical Continuum 2016

Monterey, California: Naval Postgraduate School

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TUESDAY 12 JULY

900	905	Dr. Ray Buettner: CRUSER Director	Welcome
905	920	C. Blais: NPS MOVES	Government-Owned Software for Robotics Education and Research
925	940	C. Blais: NPS MOVES	Challenges in Distinguishing Manned from Unmanned Systems in Combat Models
945	1000	R. Gamache: NPS PH	Electric Gun System
1005	1020	E. Gyde: BATTELLE	Interactive 360 Video for Autonomous and Unmanned Platforms
1025	1040	J. Reeder: SSC	Path Integral Control with Evolved Cost Functions for Control of Agile UAV Swarms
1045	1100	K. Song: NPS OC	Prototype Basic MCM UUV Search Mission Management AI Module Integration
1105	1120	D. Brutzman/D. Davis/C. Blais/R. McGhee: NPS MOVES	Ethical Mission Tasking and Execution for Maritime Robotic Vehicles
1125	1140	D. Mortimore: NUWC Keyport	Unmanned Systems Research and Experimentation Opportunities
1145	1200	H. Park/Tavora Romano/Yun:NPS MAE/ECE	Project MANICOPTER: Autonomous Aerial Vehicles with Robotic Manipulation Capability
1205	1220	J. Virgili-Llop/M. Romano: NPS MAE	Modeling and control of UxV with onboard robotic manipulators of similar size
1225	1240	K. Jones: NPS MAE	Aqua-Quad: Status and Future Developments
1245	1300	W. Kang: NPS MA	Observability and Optimal Sensor Placement for Mobile Sensor Networks
1305	1320	D. Boger/ S. Miller: NPS IS	Using Co-Active Design to Implement Marine Machine Interdependence in Squad Maneuvers
1325	1340	F. Alves: NPS PH	Bio-inspired MEMS acoustic sensor for robotic autonomous systems applications
1345	1400	S. Fahey: NPS CS	USV for Maritime Shield
1405	1420	S. Kragelund: NPS MAE	Experimentation in Extreme Environments: Recent Results by CAVR



WEDNESDAY 13 JULY

		Dr. Brian Bingham: CRUSER Deputy Director	Welcome
900	905		Developing Single Sortie Detect to Engage Multi-Vehicle Autonomy with Ground-Based Testbed
905	920	B. Bingham: NPS MAE	Acoustic Characterization of the New Arctic using Unmanned Systems in ICEX-16
925	940	J. Joseph: NPS OC	
945	1000	Y. Kwon/J. Klamo: NPS SE/MAE	Unsteady Loads on UUV during Near Surface Operation
1005	1020	P. Thulasiraman: NPS ECE	Evaluation of Security Algorithms in Cyber Defense of UAV Swarm Communications
1025	1040	G. Xie: NPS CS	Reliable Ad-hoc Communication through Multi-path Data Delivery
1045	1100	D. Brutzman: NPS IS/USW	RoboData Archive for JIFX/CRUSER Unmanned System Experimentation
1105	1120	J. Testa/V. Dobrokhodov: NPS MAE	Vision-Based Relative Navigation of Multicopter UAV in Maritime Interdiction Operation
1125	1140	X. Yun/J. Calusdian: NPS ECE	MATLAB Interface for the P3-DX Mobile Robot
1145	1200	C. Walton/ I. Kaminer: NPS MAE	Optimal Sensor Deployment and Information Gathering using UxSs
1205	1220	J. Metcalf/R.C. Olsen: NPS PH	Photogrammetric Point Cloud Fusion Using UAV Collected Thermal Imagery
1225	1240	R. Buettner/M. Jones: NPS IS	Swarm versus Swarm: Progress and Future Plans
1245	1300	K. Giammarco/M. Auguston/K. Giles: NPS SE/CS	Monterey Phoenix Behavior Modeling of Robotics and Unmanned Systems
1305	1320	P. Guest: NPS MR	Using Quad-rotor UAS to Perform Meteorological Measurements From Ships
1325	1340	S. Sanchez: NPS OR	Closing Capability Gaps: Data Farming Methods for New Concept Exploration in the CRUSER Community
1345	1400	S. Kragelund/ C. Walton/ I. Kaminer: NPS MAE	Sonar Detection Mission Planning Tool for Autonomous Vehicle Teams
1405	1420	D. Brutzman: NPS IS/USW	QR and DFL Optical Communications for Network Optional Warfare (NOW)