

SERC DOCTORAL 7th ANNUAL STUDENT FORUM

18 NOVEMBER 2019 | FHI 360 - 1825 CONNECTICUT AVE NW 8TH FL. WASHINGTON, DC

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| 12:00 PM | LUNCH |
| 12:15 - 12:50 PM | Registration, Check-in, and Networking Time |
| 12:50 – 1:00 PM | Welcome and Introductions Dr. Dinesh Verma, <i>Executive Director, SERC</i> |
| 1:00 – 1:10 PM | Opening Remarks from the SERC Executive Sponsor D. Scott Lucero, SERC Program Manager, Acting Director, Engineering Policy and Systems, OUSD (R&E) |
| SERC DOCTORAL FELLOW & STUDENT PRESENTATIONS ACADEMY HALL | |
| 1:15 – 1:40 PM | <i>Modeling of Case Studies for What-if-Exploration with Different Assumptions</i> Marilee J. Wheaton, Aerospace SERC Doctoral Fellow, University of Southern California |
| 1:40 – 2:05 PM | <i>Reducing Design Rework using Set-Based Design Framework in a Model Centric environment during the Technology Maturation and Risk Reduction (TMRR) Phase of the Department of Defense (DOD) Acquisition Life Cycle</i> Shawn Dullen, CCDC-AC, SERC Doctoral Fellow, Stevens Institute of Technology |
| 2:05 – 2:30 PM | <i>Building the Case for Secure MOSA Using Systems Thinking Methodologies</i> Giselle Bonilla-Ortiz, Raytheon SERC Doctoral Fellow, Stevens Institute of Technology |
| 2:30 – 2:55 PM | <i>Characterizing Unmanned Aerial Systems (UAS) networks and Implications for sensor end-to-end applications</i> Major Russell Shirey, AFRL SERC Doctoral Fellow, Purdue University |
| 2:55 – 3:20 PM | BREAK |
| 3:20 – 3:45 PM | <i>Identifying Collaboration and Communication Needs for Complex Systems Design using Digital Engineering</i> Stephanie Chiesi, Raytheon SERC Doctoral Fellow, Stevens Institute of Technology |
| 3:45 – 4:10 PM | <i>A Systems Theoretic Approach to the Design of Systems with Learning Algorithms</i> Tyler Cody, Doctoral Student, University of Virginia |
| 4:10 – 4:35 PM | <i>The Impact of Software Security Practices on Development Effort</i> Elaine Venson, Doctoral Student, University of Southern California |
| 4:35 – 5:00 | <i>Reliability Engineering of Autonomous Systems incorporating Machine Learning</i> Christian Ellis, Doctoral Student, University of Massachusetts Amherst |
| 5:00 – 5:25 | <i>Efficient Multidisciplinary System Design Optimization at the Mission Level</i> Brian Chell, Doctoral Student, Stevens Institute of Technology |
| SDSF KEYNOTE ADDRESS | |
| 5:30 – 6:00 PM | Dr. Wouter Leibbrandt, Science and Operations Director of ESI |
| 6:00 – 7:30 PM | PI 101 EVENING RECEPTION |



**SYSTEMS
ENGINEERING
RESEARCH CENTER**

A University-Affiliated Research Center (UARC) of the US Department of Defense, leverages the research and expertise of faculty, staff, and student researchers from more than 20 collaborating universities throughout the United States. SERC is unprecedented in the depth and breadth of its reach, leadership, and citizenship in Systems Engineering.