

May 2018 S²ERC SHOWCASE AGENDA

May 16-17, 2018 • Hosted by Ball State University • Muncie, IN

Tuesday, May 15

7:00-9:00 PM	Networking Reception - <i>Appetizers & Beverages</i> Presentation by Dr. Ron Kaitchuck – <i>The Universe Overhead: Amazing Discoveries of 2017</i> Charles W. Brown Planetarium, Cooper Science Building, Room 101, 2000 W. Riverside Avenue, Muncie, IN 47306
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Wednesday, May 16

8:00-9:00 AM	Registration / Poster Set-Up / Breakfast Ball State Alumni Center Conservatory, 2800 West Bethel Avenue, Muncie, Indiana 47304	
9:00-9:10	Welcome & Introductions – Ball State Alumni Center, Assembly Hall Geoffrey S. Mearns, President, Ball State University	
9:10-9:30	State of the S²ERC - Wayne Zage, S²ERC Director, Ball State University	
9:30-9:40	NSF Program Update & Surveys - Vida Scarpello, I/UCRC Assessment Coordinator	
9:40-11:00	Session 1: New Proposals 9:40-9:55 <i>Framework for Privacy-Preserving Actionable Intelligence Inference from Sensitive Data</i> Eli Tilevich; Virginia Tech 10:00-10:15 <i>Data De-Identification, Anonymization and Pseudonymization Project</i> Clare Sullivan; Georgetown University 10:20-10:35 <i>Securing IoT Devices with Diversification</i> Ville Leppänen (presenting), Sampsa Rauti; University of Turku, Finland 10:40-10:55 <i>Discovering the Metarepresentation of Software Constructs</i> Dolores Zage (presenting), Nathan White; Ball State University	
11:00-11:30	IAB Meeting – Ball State Alumni Center, Board Room	
11:30-12:00	Posters and Buzzwords and Robots! Oh MY! – Ball State Alumni Center, Conservatory	
12:00-1:00	Lunch Break - Ball State Alumni Center, Conservatory	
12:45-1:00	Researcher Meeting – Ball State Alumni Center, Board Room	
1:00-2:20	Session 2: New Proposals 1:00-1:15 <i>Game-based Training for Software Engineering Teamwork</i> Paul Gestwicki; Ball State University 1:20-1:35 <i>Digital Identity and Blockchain Project</i> Clare Sullivan; Georgetown University 1:40-1:55 <i>Real-Time Scheduling Framework for Resilience via Diversified Software</i> Tam Chantem (presenting), Ryan Gerdes; Virginia Tech 2:00-2:15 <i>Models and Software Tools for Managing Network Complexity</i> Xin Sun; Ball State University	
2:20-3:00	IAB Meeting – Ball State Alumni Center, Board Room	
3:00-4:40	Session 3: New Proposals 3:00-3:15 <i>The Impact of the new E.U. e-Privacy Regulation on IoT Data</i> Clare Sullivan; Georgetown University 3:20-3:35 <i>Integrating Modeling to Increase Abstraction in the Code</i> Huseyin Ergin; Ball State University 3:40-3:55 <i>Development of Technologies for Stopping Unmanned Aircraft Systems Incursions</i> Ryan Gerdes (presenting), Tam Chantem, Mazen Farhood; Virginia Tech	



Wednesday, May 16 (cont.)

3:00-4:40	<p>Session 3 (continued): New Proposals</p> <p>4:00-4:15 <i>Towards Systematic Detection and Resolution of Network Control Conflicts for High Confidence and Service Assurance Using Rigorous Software Specification</i> Xin Sun (presenting), Lan Lin; Ball State University</p> <p>4:20-4:35 <i>Code Duplication ++</i> Dolores Zage (presenting), Wayne Zage; Ball State University</p>
4:40-5:10	<p>IAB Meeting – Ball State Alumni Center, Board Room</p>
6:00-9:00	<p>Cocktail Hour - David Owsley Museum of Art Sculpture Court, 2021 W. Riverside Avenue, AR 328</p> <p>Banquet Dinner - David Owsley Museum of Art Recital Hall, AR 217 Presentation by Scott Tousley, Deputy Director, Cyber Security Division, Department of Homeland Security S&T "The National Research Challenge of Cyber Security, Critical Infrastructure Protection and Smart Cities"</p>

Thursday, May 17

8:00-8:45 AM	<p>Registration / Breakfast - Ball State Alumni Center, Conservatory</p>
8:45-10:05	<p>Session 4: Status Reports – Ball State Alumni Center, Assembly Hall</p> <p>8:45-8:55 <i>The Impact of International Data Protection laws on AI and Deep Learning</i> Clare Sullivan; Georgetown University</p> <p>9:00-9:10 <i>Shared-Memory Middleware</i> Todor Cooklev; Indiana/Purdue University, Fort Wayne</p> <p>9:15-9:30 <i>Building Security In: Fuzzing Web Applications</i> Pekka Pietikäinen; University of Oulu, Finland</p> <p>9:35-9:45 <i>Automated and Assurable Security Policy Migration to Software-defined Networking</i> Xin Sun; Ball State University</p> <p>9:50-10:00 <i>Empirical Studies to Discover Vulnerability Analysis Patterns</i> Mehdi Mirakhorli; Rochester Institute of Technology</p>
10:05-10:30	<p>IAB Meeting – Ball State Alumni Center, Board Room</p>
10:30-11:35	<p>Session 5: Status & Final Reports – Ball State Alumni Center, Assembly Hall</p> <p>10:30-10:40 <i>Compiler Tools for CPI Protection - Final</i> Eli Tilevich (presenting), Tam Chantem, Charles Clancy; Virginia Tech</p> <p>10:45-11:00 <i>Survey of Robotic Process Automation (RPA) Security</i> Presenting: Tapio Frantti; PI: Teemu Tokola; University of Oulu, Finland</p> <p>11:05-11:15 <i>Cyber Threat Intelligence Information Exchange Ecosystem (CyberISE): Legal Analysis</i> Clare Sullivan; Georgetown University</p> <p>11:20-11:30 <i>How Far Could Mathematics and Rigor Take Us?</i> Lan Lin; Ball State University</p>
11:35-12:00	<p>IAB Meeting – Ball State Alumni Center, Board Room</p>
12:00-1:00	<p>Lunch Break - Ball State Alumni Center, Conservatory</p>
1:00-1:45	<p>Posters and Buzzwords and Robots! Oh MY! (revisited) – Ball State Alumni Center, Conservatory</p>
1:45-2:45	<p>Session 6: Status Reports – Ball State Alumni Center, Assembly Hall</p> <p>1:45-1:55 <i>Fingerprinting of GPS Satellites to Detect GPS Spoofing</i> Ryan Gerdes (presenting), Bob McGwier, Jeffrey Reed; Virginia Tech</p> <p>2:00-2:10 <i>ICSCSE/Advanced Open Source Virtual Machine Introspection Tools for Malicious Activity Detection and Analysis</i> Presenting: Samuel Laurén; PI: Ville Leppänen; University of Turku, Finland</p> <p>2:15-2:25 <i>Data Protection and the Right to Privacy in the IoT Era</i> Clare Sullivan; Georgetown University</p>

Thursday, May 17 (cont.)

1:45-2:45	<p>Session 6 (continued): Status Reports – Ball State Alumni Center, Assembly Hall</p> <p>2:30-2:40 <i>Improving Software Code Security with Automated Vulnerability Analysis and Inference with Multi-Case Based Reasoning</i> Shaoen Wu; Ball State University</p>
2:45-3:15	<p>Snack *Strawberry Shortcake* – Ball State Alumni Center, Conservatory</p> <p>Closed IAB Meeting – Ball State Alumni Center, Board Room IAB Members, NSF Representatives, IUCRC Assessment Coordinator</p> <div style="float: right;">   </div>
3:15-4:20	<p>Session 7: Status & Final Reports – Ball State Alumni Center, Assembly Hall</p> <p>3:15-3:30 <i>Security Management of Connected Lighting Systems and Networks</i> Presenting: Antti Kolehmainen; PI: Marko Helenius; Tampere University of Technology, Finland</p> <p>3:35-3:45 <i>Interactive Module Dependency Visualization for Go Language Programs</i> Paul Buis; Ball State University</p> <p>3:50-4:00 <i>USAID Guidelines for Responsible Development Data: Legal and Policy Analysis Project - Final</i> Clare Sullivan; Georgetown University</p> <p>4:05-4:15 <i>Machine Learning for Radar State Determination - Final</i> Tom Krauss (presenting), Alan Michaels; Virginia Tech</p>
4:20-4:30	<p>Closing Remarks – Wayne Zage, S²ERC Director, Ball State University</p>
4:30-5:30	<p>Final IAB Meeting – Ball State Alumni Center, Board Room</p> <div style="float: right;">  </div>
6:30-8:00	<p>Post-Showcase Mingle – E.B. and Bertha C. Ball Center, 400 W. Minnetrista Boulevard, Muncie, Indiana 47303</p>

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