# CREDC Summer Symposium

**June 23- 28, 2019**

Agenda is subject to change

Sunday, June 23rd | Q Center | Welcome Reception

Welcome Reception

Sponsorship still available, if interested, please contact Linda Steinberg at [gholson@illinois.edu](mailto:gholson@illinois.edu)

6:30 pm – 8:30 pm

Monday, June 24th | Q Center, Theater (Main Room) & Ballroom

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| 6:30 am – 8:30 am | BREAKFAST, Cafeteria |
| 8:00 am | Registration Desk Opens – Outside of the Theater (main room) |
| 8:30 am – 9:00 am | **Welcome and Opening Remarks**  Dilhan Rodrigo, Managing Director | CREDC  Sachin Shetty, Associate Professor, Old Dominion University | CREDC |
| 9:00 am – 10:00 am | **“Progress in DERs, DAFs, Interoperability, Cybersecurity, and Standards**…**Is it Enough? Top 5 Issues in Grid OT Cybersecurity”**  Keynote Speaker: David Lawrence, Technology Development Manager, DUKE Energy |
| 10:00 am – 10:15 am | BREAK: Light snacks |
| 10:15 am – 11:15 am | **"FBI’s Cybersecurity mission and what role the FBI would play in a cyberattack against a utility"**  Joel Robertz, Special Agent, FBI Chicago |
| 11:15 am – 12:00 am | **“CyPhyR – A real time cyber-physical analysis tool for resilient microgrid operation and planning”**  Venkatesh Venkataramanan, Ph.D. student, Washington State University  Aolin Ding, Ph. D. student, Rutgers University |
| 12:00 am – 1:30 pm | LUNCH, Q Center Cafeteria |
| 1:30 pm – 2:30 pm | **"Buffer Overflow in ICS - Attacks and Countermeasures" Presentation**  Sachin Shetty, Associate Professor, Old Dominion University | CREDC |
| 2:30 pm – 2:45 pm | BREAK: Light snacks |

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| 2:45 pm – 4:30/5 pm | **"Buffer Overflow in ICS - Attacks and Countermeasures" DEMO**  Sachin Shetty, Associate Professor, Old Dominion University | CREDC |
| 5:00 pm – 7:00/8 pm | **Escape Room: Virtual Team Activity (optional)**  Matthew Luallen, Executive Inventor, CYBATI |
| 5:00 pm – 10:00 pm | **Indoor and Outdoor Activities provided by the Q Center (optional)** |
| 6:00 pm – 8:00 pm | DINNER , Q Center Cafeteria |

Tuesday, June 25th | Q Center, Theater (Main Room) & Ballroom

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| 6:30 am – 8:30 am | BREAKFAST, Cafeteria |
| 8:00 am | Registration Desk Opens – Outside of the Theater (main room) |
| 8:30 am – 8:45 am | **Welcome**  Dilhan Rodrigo, Managing Director | CREDC |
| 8:45 am – 9:00 am | **Opening Remarks**  Pete Sauer, Co-PI, University of Illinois | CREDC |
| 9:00 am – 10:00 am | **"Assessing IEEE 802.15.4/ZigBee Attack Surface with KillerBee"**  Ryan Speers, Managing Partner, River Loop Security |
| 10:00 am – 10:15 am | BREAK: Light snacks |
| 10:15 am – 11:15 am | **"The emerging role of the Illinois Commerce Commission in working with utilities to address cyber threats"**  Dominic Saebeler, Director of Cybersecurity and Risk Management, Illinois Commerce Commission |
| 11:15 am – 12:00 pm | **"Exploring an RTO’s approach to addressing cybersecurity"**  Joe Polen, Executive Director, Security Control and Engagement Management, MISO |
| 12:00 pm – 1:00 pm | LUNCH, Q Center Cafeteria |
| 1:00 pm – 3:00 pm | **RADICS DEMO**  Tim Yardley, Principal Research Scientist and Associate Director, Information Trust Institute, University of Illinois | CREDC |

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| 3:00 pm – 3:15 pm | BREAK: Light snacks |
| 3:15 pm – 4:15 pm | **Consultant Panel:**  Moderator: Dominic Saebeler, Director of Cybersecurity and Risk Management, Illinois Commerce Commission  Jamey Sample, Principal, Americas Advisory Services, Ernst & Young Bradley Singletary, Senior Manager, Deloitte & Touche  Scott Crider, Manager, West Monroe Partners, LLC |
| 4:15 pm – 5:00 pm | **“Use Cases in Secure Microgrid Interoperability”**  Dmitry Ischenko, Lead Principal Scientist, ABB, Inc.  Al Valdes, Principal research Scientist, Information Trust institute | CREDC |
| 5:00 pm – 7:00/8 pm | **Escape Room: Virtual Team Activity (optional)**  Matthew Luallen, Executive Inventor, CYBATI |
| 5:00 pm – 10:00 pm | **Indoor and Outdoor Activities provided by the Q Center (optional)** |
| 6:00 pm – 8:00 pm | DINNER , Q Center Cafeteria |

Wednesday, June 26th | Q Center, Networking Day!!!

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| 6:30 am – 8:30 am | BREAKFAST, Cafeteria |
| 8:00 am | Registration Desk Opens – Outside of the Theater (main room) |
| 8:30 am – 8:45 am | **Welcome**  Dilhan Rodrigo, Managing Director, University of Illinois | CREDC |
| 8:45 am – 9:00 am | **CEDS Program Update**  Carol Hawk, PhD., Acting Deputy Assistant Secretary, Cybersecurity for Energy Delivery Systems (CEDS) Cybersecurity, Energy Security, and Emergency Response (CESER) U.S. Department of Energy |
| 9:15 am – 9:30 am | **Lightning Talks**  Students will provide 1-3 mins reviews of their research |
| 9:30 am – 10:00 am | **“Visualization and Analysis of Grid-Cyber Systems Security”**  Johnathon White, Energy Systems Cyber-Physical Security Group Manager, National Renewable Energy Laboratory (NREL) |

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| 10:00 am – 10:15 am | BREAK: Light snacks |
| 10:15 am – 11:15 am | **TBA**  Dr. Roger Alexander , Lead Research Engineer, Schweitzer Engineering Laboratory |
| 11:15 am – 12:15 pm | **"OT Security Solutions for the Grid – the EPRI Challenge"**  Matt Wakefield, Director-Information, Communication & Cyber Security, Electric Power Research Institute (EPRI) |
| 12:15 pm – 1:30 pm | LUNCH, Q Center Cafeteria |
| 1:30 pm – 3:00 pm | **The K-12 Connection**  Jana Sebestik, Assistant Director of STEM Curriculum Design, University of Illinois | CREDC |
| 3:00 pm – 3:15 pm | BREAK: Light snacks |
| 3:15 pm – 5:15 pm | **Networking & Booth Fair**  Industry Booth set up to demo cyber capabilities, network with attendees, or build collaboration opportunities with students and researchers |
| 5:15 pm – 5:30 pm | Transition to outside space for additional networking activities |
| 5:30 pm – 7:30 pm | **Poster & Networking Reception**  Outdoor Pavilion for research poster displays and networking reception |
| 6:00 pm – 8:00 pm | DINNER , Q Center Cafeteria |

Thursday, June 27th | Q Center, Theater (Main Room) & Ballroom

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| 6:30 am – 8:30 am | BREAKFAST, Cafeteria |
| 8:00 am | Registration Desk Opens – Outside of the Theater (main room) |
| 8:30 am – 8:45 am | **Welcome**  Dilhan Rodrigo, Managing Director, University of Illinois | CREDC |
| 8:45 am – 9:45 am | **TBA**  Randy Sandone, Executive Director, Critical Infrastructure Resilience Institute (CIRI) |
| 9:45 am – 10:00 am | **Lightning Talks**  Students will provide 1-3 mins reviews of their research |

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| 10:00 am – 10:15 am | BREAK: Light snacks |
| 10:15 am – 11:15 am | **“A Strategic Framework for Cyber Resilience"**  Steve McElwee, Chief Information Security Officer (CISO), PJM Interconnection |
| 11:15 am – 12:00 pm | **“Proactive Cyber Risk Management in IIoT”**  Amin Hassanzadeh, Cyber Security R & D Principal, Accenture Labs |
| 12:00 pm – 1:30 pm | LUNCH, Q Center Cafeteria |
| 1:30 pm – 2:30 pm | **"Cyber Risk Assessment and Cyber Resilience Metrics in Energy Delivery Systems" Presentation**  Sachin Shetty, Associate Professor, Old Dominion University | CREDC Bheshaj Krishnappa, Resilience and Risk Manager, ReliabilityFirst |
| 2:30 pm – 2:45 pm | BREAK: Light snacks |
| 2:45 pm – 4:30/5 pm | **"Cyber Risk Assessment and Cyber Resilience Metrics in Energy Delivery Systems" DEMO**  Sachin Shetty, Associate Professor, Old Dominion University | CREDC Bheshaj Krishnappa, Resilience and Risk Manager, ReliabilityFirst |
| 5:00 pm – 7:00/8 pm | **Escape Room: Virtual Team Activity (optional)**  Matthew Luallen, Executive Inventor, CYBATI |
| 5:00 pm – 10:00 pm | **Indoor and Outdoor Activities provided by the Q Center (optional)** |
| 6:00 pm – 8:00 pm | DINNER , Q Center Cafeteria |

Friday, June 28th | Q Center, Theater (Main Room) & Ballroom

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| 6:30 am – 8:30 am | BREAKFAST, Cafeteria |
| 8:00 am | Registration Desk Opens – Outside of the Theater (main room) |
| 8:30 am – 8:45 am | **Welcome**  Dilhan Rodrigo, Managing Director, University of Illinois | CREDC |
| 8:45 am – 10:00 am | **“Anomaly Detection and Causal Reasoning about Attacks on SCADA Networks”**  Klara Nahrstedt, Professor and CSL Director, University of Illinois | CREDC |

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| 10:00 am – 10:15 am | BREAK: Light snacks |
| 10:15 am – 11:30 am | **TBA**  Michael Keane, Electrical Engineer, Federal Energy Regulatory Commission (FERC) |
| 11:30 am – 11:45 am | **Dismissal & Goodbyes**  Dilhan Rodrigo, Managing Director, University of Illinois | CREDC |
| 11:45 am – 1:30 pm | LUNCH, Q Center Cafeteria |

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| 10:00 am – 11:30 am | **CREDC IAB Meeting- PRIVATE- Only open to essential CREDC staff, CREDC IAB members, and DOE/ DHS** |