



**NSF FREEDM Systems Center**

**Year 9 Annual Site Visit**

**May 11-12, 2017**

**North Carolina State University, Raleigh North Carolina**



<b>Preconference Activities: Wednesday, May 10, 2017</b> <b>Location: NC State Campus</b>	
<b>6:00 PM - 8:00 PM</b>	FREEDM Team, SAB, IAB, Invited Faculty and Guests (Get together - TBD)
<b>6:30 PM - 10:30 PM</b>	NSF Briefing to SVT – Working Dinner at Aloft Hotel (2100 Hillsborough St, Raleigh, NC 27607, Conference Room - TBD)
<b>Site Visit Day 1: Thursday, May 11, 2017</b> <b>Location: McKimmon Center – 1101 Gorman St, Raleigh, NC 27606</b>	
<b>7:15 AM</b>	<b>SVT please meet in Aloft Raleigh Lobby for Shuttle to the McKimmon Center</b>
<b>7:30 AM - 8:00 AM</b>	<b>Registration (Lobby)</b> Continental Breakfast – All Attendees and SVT (SVT Room TBD – Breakfast)
<b>8:00 AM – 8:10 AM</b>	Welcome – Dean Louis Martin-Vega Brief remarks - Chancellor Randy Woodson NC Introduction of Site Visit Team and NSF Staff – Iqbal Husain
<b>8:10 AM - 9:00 AM</b>	Center Overview and Major Accomplishments – Iqbal Husain (8:10 – 8:50, +10 min Q&A)
<b>Research Programs (Room – TBD)</b>	
<b>9:00 AM – 9:13 AM – 13 min</b>	1. Hardware in the Loop (HIL) Testbed - Mischa Steurer
<b>9:13 AM – 9:25 AM – 12 min</b>	2. Distributed Grid Intelligence/Reliable & Secure Comm. (DGI/RSC) – Bruce McMillin
<b>9:25 AM – 9:40 AM - 15 min</b>	<b>Q&amp;A for HIL and DGI panel</b>
<b>9:40 AM – 9:53 AM - 13 min</b>	3. Green Energy Hub (GEH) Testbed – David Lubkeman
<b>9:53AM – 10:05 AM - 12 min</b>	4. System Cost/Benefit Analysis – Mesut Baran, Jerry Heydt, Joe DeCarolis
<b>10:05 AM – 10:25 AM - 15 min</b>	<b>Q&amp;A for GEH and Cost-Benefit Analysis (CBA) panel</b>
<b>10:25 AM – 10:40 AM - 15 min</b>	<b>Break</b>
<b>10:40 AM – 10:50 AM - 10 min</b>	5. Large Scale System Simulation (LSSS) Testbed – Mariesa Crow
<b>10:50 AM – 11:00 AM - 10 min</b>	6. System Theory, Modeling, and Control (SMC) – Iqbal Husain
<b>11:00 AM – 11:15 AM - 15 min</b>	<b>Q&amp;A for LSSS and SMC panel</b>
<b>11:15 AM – 11:25 AM - 10 min</b>	7. Distributed Energy Storage Device (DESD) - Srdjan Lukic
<b>11:25 AM – 11:35 AM - 10 min</b>	8. Post Silicon Devices (PSD) – Jay Baliga
<b>11:35 AM – 11:50AM - 15 min</b>	<b>Q&amp;A for DESD and PSD panel</b>
<b>11:50 AM – 12:20PM</b>	<b>SVT Executive Session (SVT Only - Room TBD)</b>
<b>Buffet Lunch (Room TBD)</b>	
<b>12:10 AM – 1:10 PM</b>	Catered Lunch – (Room TBD)
<b>Research Programs Continued (Room – TBD)</b>	
<b>1:10 PM - 1:20 PM - 10 min</b>	9. Solid State Transformer (SST) – Alex Huang
<b>1:20 PM – 1:30 PM - 10 min</b>	10. Fault Isolation Device (FID) – Mischa Steurer
<b>1:30 PM – 1:45 PM - 15 min</b>	<b>Q&amp;A for PSD, SST and FID panel</b>
<b>1:45 PM – 2:00 PM - 15 min</b>	<b>Break</b>
<b>Education Programs (Room – TBD)</b>	
<b>2:00 PM – 2:15 PM - 15 min</b>	12. Pre-College and Education/Outreach Program and Diversity– Pam Carpenter and Roy Charles
<b>2:15 PM – 2:25 PM - 10 min</b>	13. College Education Program – Mesut Baran
<b>2:25 PM – 2:40 PM - 15 min</b>	<b>Q&amp;A for Education panel</b>
<b>2:40 PM – 3:10 PM - 30 min</b>	<b>SVT Private Session with Students (SVT and Students Only)</b>
<b>Industry and Innovation Program (Room – TDB)</b>	
<b>3:10 PM – 3:25 PM - 15 min</b>	14. Industry Engagement and Innovation Ecosystem – Ken Dulaney
<b>3:25 PM – 3:35 PM - 10 min</b>	15 Infrastructure and Sustainability – Ewan Pritchard
<b>3:35 PM – 3:50 PM - 15 min</b>	<b>Q&amp;A for Industry and Sustainability panel</b>
<b>3:50 PM – 4:20 PM – 30 min</b>	<b>SVT Private Session with Industry (SVT and Industry Only)</b>
<b>FREEDM Poster Session (Room TBD)</b>	
<b>4:20 PM – 5:50 PM</b>	FREEDM Poster Session ** (All Core and Associated Projects at McKimmon – All GEH and FID at FREEDM Center Lab)
<b>Move to FREEDM at the Keystone Science Center for GEH and FID Poster, Lab and Demo (**SVT team can move when done with the Poster Session)</b>	

<b>5:50 PM – 6:50 PM</b>	Lab Tour and Demo and Posters for GEH and FID – FREEDM Lab
<b>6:50 PM – 7:20 PM</b>	SVT Executive Session – ( <b>Room – Energy Board Room</b> )
<b>7:20 PM – 7:30 PM</b>	SVT Delivers Overnight Questions to ERC Team ( <b>Room - Education Seminar Room</b> )
<b>7:30 PM - 10:00 PM</b>	SVT Private Working Dinner ( <b>Aloft Raleigh shuttle arrives at 7:30 pm at Keystone Science Center for transport back to Aloft</b> )
<b>7:00 PM – 9:00 PM</b>	<b>Dean’s Dinner (NC State, FSU/FAMU, MS&amp;T, ASU – David’s Dumpling and Noodle Bar</b>
<b>ERC Faculty Working Dinner</b>	
<b>7:25 PM – until</b>	Working Dinner – ERC Team Prepares response to questions raised

<b>Site Visit Day 2: Friday, May 12, 2017</b>	
<b>Location: McKimmon Center</b>	
<b>7:30 AM</b>	SVT Meet in Aloft Raleigh Lobby for shuttle to McKimmon Center
<b>7:45 AM – 8:30 AM</b>	Private Breakfast (SVT and Leadership Team Only) ( <b>Room TBD</b> )
<b>8:30 AM - 9:45 AM</b>	Leadership Team meets with SVT ( <b>Room TBD</b> )
<b>9:45 to 10 AM</b>	Meal payment and transportation logistics
<b>10:00 AM – 4:00 PM</b>	NSF Site Visit Team Report Writing (Closed Session – boxed lunch provided) – ( <b>Room TBD</b> )
<b>4:30 PM</b>	<b><i>SVT transportation to airport will start at 4:30 pm. Please plan on NOT leaving earlier than 4:30 pm.</i></b>