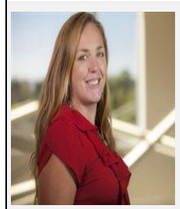
17th Annual SAME Kittyhawk Post Industry Day
Speaker Presentation Information
"Achieving Resiliency"

Speaker	Topic	Description	Speaker bio
 Jack Pressman, Netrix, LLC	EMP Critical Threat to Infrastructure		Jack has thirty five years delivering mission critical products and services for high availability IT platforms. He's developed over 100 world-class Enterprise Data Centers. First commercial developer of EMP (Electromagnetic Pulse) and GMS (Geomagnetic Storm) protected 100% Private Cloud Centers. Architect of EMP GRID's Protected Platform-as-a-Service: ➢ Max-Resilient & Self Sustaining Data Centers ➢ EMP & GMS Shielding & Protection (5 levels) ➢ Protected & Survivable 100% Private Cloud Centers
 Mark Brumfield, Senior Principal, Heapy Engineering  John O'Brien Senior Principal, Heapy Engineering  Craig Rohren, Mechanical Engineer, Heapy Engineering	Resilient Design Applications: Optimizing Reliability, Flexibility and Sustainability	Resilient design is not just limited to back-up power and complicated redundant systems. Today's challenge is to not only create low impact buildings in today's built environment, but to create flexibility in the operations of the facility as a result.	Mark Brunfield, one of Heapy Engineering's Senior Principals, has over 25 years of experience in electrical engineering design. His experience includes the electrical and telecommunication design for higher education, government and cultural projects. Additionally, he provides guidance to the firm's engineering staff on matters regarding the latest innovations in design and the development of design tools, codes and overall industry insight. John O'Brien is a Senior Principal and Heapy Engineering's Operations Manager. He is responsible for the ongoing management of the project team in his office. He has excelled at Heapy since his initial start as a college co-op student, through his positions as a Senior Design Engineer and Project Manager Craig joined Heapy Engineering as a Mechanical Engineer in 2007. He has designed systems for various types of buildings including university classroom and laboratory facilities, municipal buildings, telecommunications buildings, office buildings, health care facilities and manufacturing facilities. Craig is responsible for HVAC design, including drawings, specifications, field assessments of existing systems and cost estimating.
 Phillip Barton, Schneider Electric	Energy Resiliency through Microgrids	Phillip Barton is the Senior Director of the Microgrid Competency Center and leads a team of technical experts in developing and designing microgrid solutions that help customers maintain operations under adverse conditions and maximize energy effectiveness during normal operation cycles.	Mr. Philip Barton leads Schneider Electric's U.S. activity to organize microgrid projects and solutions both internally and externally with partner companies. Since 1998, Philip has led Schneider Electric teams retrofitting entire Microgrids or any part of their enabling technology. Enabling technology includes distributed generation, power equipment, engineering services, inverters, metering, software and power controls.

	William “EZ” Housh, III Greensource	Energy Efficiency Trends in the Data Center	Cloud, consolidation and co-lo competition are driving the data center market to constantly improve energy efficiency. The Federal Government has adopted a Data Center Optimization Initiative that is also driving this trend. This briefing will focus on what strategies, techniques and products are being adopted and what results can be measured and justified.	Ez Housh is owner and President of Greensource Cincinnati. He has 55 years of experience in the Mechanical, Construction and Service Industry. His passion for superior customer service, building efficiency and green design combined to form greensource Cincinnati in 2009. Ez is licensed in multiple cities and states, and is LEED AP B+C certified, providing complete engineering, design, installation and service for commercial, institutional and residential customers.
	R. Eric Yates US Air Force, Office of Energy Assurance	Luncheon Program Speaker	Achieving Resiliency on Military Installations	R. Eric Yates is the Director of Acquisitions and Real Estate for the Air Force Office of Energy Assurance, Washington, DC. Mr. Yates is responsible for assisting the project management teams with selecting an appropriate acquisition strategy with respect to mission energy resiliency. In addition, he continuously analyzes the variety of acquisition methods for innovation, rapid use and emerging policies. Prior to assuming his current position, Mr. Yates served as Civil Engineer Squadron Deputy at Ramstein Air Force Base, Germany. Mr. Yates began his civil service career as the Programs Flight Chief at Misawa Air Base, Japan in June 2011 after retiring from active duty service in April 2011 at HQ Pacific Air Forces, Joint Base Pearl Harbor-Hickam, Hawaii. His 23-year active duty civil engineer career included service as a squadron commander three times; as well as base-level, MAJCOM and deployed assignments.
 	Kelly Birkenhauer, Geologist, Trihydro, Inc. Aishah Jones, Independent Consultant	DoD Qualified Recycling Program: A Practical Approach to Designing & Implementing a Highly Effective Program	As a component of DoD Instruction 4715.23: Integrated Recycling and Solid Waste Management, the Qualified Recycling Program (QRP) is a US military installation-wide, facility-managed and run recycling program aimed at pollution prevention and minimizing environmental impacts (i.e. recovering recyclable materials from solid waste disposal streams). Cost-effective and successful QRPs require understanding of solid waste stream characteristics and financial management, including marketability of materials, recycling cost, sales proceeds, and cost avoidance.	Kelly Birkenhauer has assisted DoD installation with establishing QRPs from initial waste stream analysis (by “dumpster diving”) and recyclable market analysis to preparing a QRP and designing components for implementation. She will present the elements of a successful QRP design to achieve a zero-cost implementation and discuss her experience working with the programs at Fort Benning, GA and the Marine Corps Mountain Warfare Training Center, Bridgeport, CA Aishah Jones has assisted Fort Gordon, GA and Fort Polk, AL implement recycling programs. Fort Gordon achieved zero-landfill status through this program. Ms. Jones will present case studies for both installations.
	Rebecca Knolle	Resiliency in Planning to Conceptual Design	“Resilience” is the capacity to adapt to changing conditions and to maintain or regain functionality and vitality in the face of stress or disturbance. For installation and building designers “resiliency” can combine sustainable strategies, with physical security improvements, with infrastructure upgrades and energy efficiency projects, and with place-making and disaster preparedness projects. We’ll demonstrate with examples from a campus plan for Air Force Special Operations Command at Yokota Air Base, Japan and a building design for the 920th Rescue Wing at Patrick AFB, FL. Many resilient design concepts also improve funtional longevity and lower operating cost.	Rebecca is licensed as a professional engineer and project management professional, and has her LEED AP accreditation. She works as a Project Manager in the Military market for Woolpert. As a PM, she manages various types of projects and project teams – From planners working on Area Development Plans, planners and designers in the development of USER Requirement Documents, to designers and engineers for the production of construction design packages for multi-million dollar military facilities. Rebecca’s primary clients are the Air Force Special Operations Command and the US Department of Defense Education Activity.

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