

TechSess#	TS-01	TS-02	TS-03	TS-04
Title	HAZARDOUS MATERIAL PRODUCT SUBSTITUTION	IDIOTS INCOMPLETE GUIDE TO NEPA	GREEN REMEDIATION ON ACTIVE RANGE	BEYOND REMEDIAL ACTION: IMPLEMENTING CHANGES TO ACHIEVE RESPONSE COMPLETE AFTER REMEDIAL DECISIONS
Presenter(s)	James E. Lanoue Jr. Aaron D. Carpenter	Michael Jago 96CEG/CEVSP	Eric Nesbit, PE Geosyntec	Angela McMath Clark HDR/ e2M
Organization	Prudent Environmental Services			
Description	Executive Order 13423 and DAF Memorandum require USAF installations to reduce hazardous waste generated & amount of hazardous material procured. This may be achieved, in part, through product substitution. However, the majority of personnel involved in the Hazardous Waste/Hazardous Material programs do not know how to effectively work a product substitution, especially when Technical Orders, Military Specifications, and Qualified Products Listings are involved. This presentation will provide an effective methodology to address product substitution efforts for both weapon and non-weapon system applications.	NEPA training has been missing from the symposium for several years. There is not time to offer a full NEPA course (unless it was 3 days) but most environmental professionals will be asked at some point to contribute or review an EA or EIS. With the high overturn lately, many people have never contributed and don't understand what their role is.	Green Remediation – addresses sustainability, site remediation, green remediation, EO13423 and EISA compliance, innovative and fast tracked RIP and RC. Our topic stands out as a guide and success story at an Active Range in acutely sensitive ecological areas.	Relevant to the site remediation and monitoring topic, the presentation provides a basis for supporting an evaluation of approved remedies and, where feasible, implementation of alternate strategies while complying with CERCLA regulatory framework.
Target Audience	HMMP Team, HAZMART Pharmacy, Haz Waste PMs, Haz Material PMs, Bioenvironmental Engineering, Hazardous Waste Storage Area Managers, and Initial Accumulation Point Managers.	Anyone that may need an AF 332, AF 813, reviews an Environmental Assessment, Environmental Impact Statement or be impacted by the results of one. NEPA customers, contributors.	ERP managers, natural resources, P2, environmental compliance, and planning staff, also range and MMRP staff.	Remedial project managers, environmental professionals

TechSess#	TS-05	TS-06	TS-07	TS-09
Title	SOME ENVIRONMENTAL ASPECTS OF AIRCRAFT AND AIRFIELD DEICING	GIDEP HOW CAN IT HELP YOU SUPPORT THE WARFIGHTER?	IMPROVING THE SUSTAINABILITY OF AN EXISTING BUILDING – A CASE STUDY	MEETING THE CHALLENGES OF SECTION 106: THE DSCR SUCCESS STORY
Presenter(s)	Susan Stell Larry Isaacs	Karen Jackson Government Industry Data Exchange Program (GIDEP)	Michael Meenan Burns & McDonnell	Melissa Wiedenfeld, Ph.D HDR e²M
Organization	AFCEE/CCR-D			
Description	Water, Wastewater Control -- Environmental Aspects of Aircraft and Airfield Deicing. This technical session discusses the oxygen demands (OD) of various deicing/anti-icing compounds presently being used, or proposed for future use, in an effort to determine their relative environmental impacts. In addition, the proposed USEPA Effluent Limitation Guidelines (ELGs) that affect aircraft and airfield deicing/anti-icing operations are reviewed. Results of an AF survey of deicing practices at its installations are provided and compared to chemical usage and practices at commercial airports.	The GIDEP Program offers information to assist with sustainability. We are a Government program run by the Government and we offer information in several areas that support the Warfighter: engineering (test reports, etc), reliability (statistics, etc), failure (non conforming parts, counterfeit, etc), Product Information (lead free, facility relocation off shore, etc), DMSMS (obsolescence), and Metrology (calibration, etc)	Related to Sustainability & Energy Topics – presentation is entitled: “Improving the Sustainability of an Existing Building – A Case Study”, this topic is current and relevant to many USAF facilities and would provide valuable insights to USAF managerial and technical personnel about to undergo or undergoing similar initiatives. This presentation will identify the keys to: 1) successfully satisfying divergent and opposing interests including the building owner, property manager and tenants; 2) criteria for evaluating and implementing various sustainable measures; and 3) lessons learned.	My topic includes lessons learned and success stories in historic preservation/cultural resource coordination involving the Defense Logistics Agency’s (DLA) facility at the Defense Supply Center, Virginia (DSCR). This presentation presents the problems the military faces in meeting Section 106 requirements and the model solution negotiated by DLA personnel.
Target Audience	Anyone dealing with the environmental, operational, and logistic aspects of deicing aircraft and airfields.	Anyone that is interested in the above mentioned areas. Also the program is free of charge the only requirement is that you supply a product or a service to the US Government.	Facility Energy Managers Asset Managers Base Civil Engineering Utility Managers	Environmental and Cultural Resource personnel working for the U.S. military

TechSess#	TS-10	TS-11	TS-12	TS-13	TS-14
Title	GROUND SOURCE HEAT PUMP NATIONAL COMPARISON CASE STUDY: LESSONS LEARNED AND SUCCESS STORIES	RENEWABLE RESOURCE CASE STUDIES: LESSONS LEARNED AND SUCCESS STORIES	ARCHAEOLOGICAL INVESTIGATIONS AT ARNOLD ABF, TN: RESULTS OF SURVEY/TESTING, AND GIS APPROACHES FOR MANAGEMENT OF CULTURAL RESOURCES	“GREEN” STABILIZED NANOPARTICLES FOR IN SITU DESTRUCTION OF CHLORINATED SOLVENTS IN GROUNDWATER	COMPREHENSIVE DEICING STUDY, SPANGDAHLEM AIR BASE, GERMANY
Presenter(s)	Alexis Clark, RG, LHG AMEC Earth and Environmental	Jeff Riegle, LEED AP; AMEC Earth and Environmental	Marc Wampler, AMEC AMEC Earth and Environmental	Zhong (John) Xiong AMEC Geomatrix, Inc.	Natascha Mandić AMEC Earth and Environmental
Organization					
Description	The topic of decentralization and centralization relates to Energy, Emerging Technologies, and Community Planning. Our presentation stands out as it provides real-world examples at Air Force locations, which incorporate a growing trend in the Air Force, highlighting an emerging technology.	The topic of renewables relates to Energy, Sustainability, Emerging Technologies and Community Planning. Our presentation stands out as it provides real-world examples at Air Force locations, which highlight trends for emerging technologies.	The topic of archaeological investigations relates to Natural, Cultural, and Historic Preservation. The presentation stands out as it presents results of one of the largest archaeological surveys ever undertaken by the U.S. Air Force. The synthesis of these results can provide a framework that can in turn be applied for managing cultural resources not only at Arnold AFB, but for other Air Force bases.	This presentation will stand out because it is a uniquely innovative technology based upon nanotechnology and as well as a “green” stabilizer that has potential to significantly impact the Department of Defense’s (or Air Force) largest groundwater problem, that of chlorinated solvents. The technology has been field tested and is currently undergoing further testing and validation at Hill Air Force Base.	Water, Wastewater Control/Monitoring, Sustainable stormwater controls, State of the art approaches to managing surface water discharges contaminated with deicing fluids, coordinating environmental requirements with flight operations
Target Audience	This presentation is targeted for anyone who may be considering designing or installing a ground source heat pump at their installation.	This presentation is a “must-see” for anyone interested in cost-effective renewable energy at their location.	This presentation is targeted for Air Force base cultural resources managers or anyone on base considering development of an area that may contain sensitive cultural resource locales.	The target audience includes remedial program managers within the Air Force who are currently involved in groundwater issues at their site.	Environmental managers, flight operation specialists

TechSess#	TS-15	TS-16	TS-17	TS-18
Title	INNOVATIVE MONITORING TOOLS TO IMPROVE THE SUCCESS RATE OF IN SITU BIOREMEDIATION SYSTEMS	MMRP ENVIRONMENTAL RESTORATION AND NATURAL RESOURCES MGT: HOW TO SUCCEED WHEN ENVIRONMENTAL STEWARDSHIP GOALS COLLIDE	STORMWATER GREEN INFRASTRUCTURE MASTER PLANNING	REMEDATION PILOT TESTING: SURFACTANT FLUSHING OF JET FUEL FREE PRODUCT IN A DEBRIS FILL UNIT, CHARLOTTE AIR NATIONAL GUARD
Presenter(s)	Laurie LaPat-Polasko AMEC Geomatrix	Aaron Goldschmidt AMEC Earth and Environmental	Dr. F. Robert McGregor, P.E. Andrew Reese, P.E.	Helen Corley, L.G. AMEC Earth and Environmental
Organization			AMEC Earth & Environmental	
Description	This topic will be important to those individuals who are overseeing cleanup of contaminated groundwater because it will provide them with insight concerning innovative tools to understand the mechanisms and rates for in situ biodegradation of various contaminants. This innovative tool has also been used to identify which amendments can significantly improve in situ bioremediation systems.	The presentation bridges the topics of Site Remediation and Monitoring and Natural Resources Preservation. Our presentation highlights a real-world example of conflicting mission goals of environmental cleanup and natural resources management/stewardship where both long-term goals ultimately benefit the physical environment, but near-term objectives appear to conflict. As implementation of actions under the military munitions response program (MMRP) continue to gain momentum, such conflicts are likely to recur – and it is the Air Force’s collaborative solutions with regulatory agencies and stakeholders that will enable conflict resolution.	Relevant Topics; Sustainability, Pollution Prevention, Water Control, Energy Management. Stormwater management at Air Force bases is a continuing infrastructure opportunity/challenge. The course includes practical case studies at two Air Force bases to demonstrate compliance with the Energy Independence Security Act of 2007, relevant Executive Orders, and emerging federal guidelines for compliance with this statute.	The topic of surfactant flushing to recover jet fuel free product relates to the Site Remediation and Monitoring topic. Our presentation stands out as it will relate to many base environmental managers due to one or more of the following aspects: the challenge of free product recovery from the subsurface; an emerging remediation technology; assessment/remediation of contamination in a debris fill; and logistic/safety/security considerations for round-the-clock field work by contractors.
Target Audience	Program Managers and anyone involved in site remediation responsibilities.	Asset Management, Natural Resources Management, and Environmental staff who need to balance and reconcile accelerated remediation/restoration actions – particularly those that are MMRP-driven – with natural and/or cultural resources stewardship responsibilities.	Civil engineering squadrons.	This presentation is targeted for base environmental managers and other decision makers regarding environmental remediation.

TechSess#	TS-19	TS-20	TS-21	TS-22
Title	DECENTRALIZATION/CENTRALIZATION AS AN ENERGY MANAGEMENT PRACTICE: LESSONS LEARNED AND SUCCESS STORIES	PLANNING, INSTALLATION, MAINTENANCE, AND OPERATION OF AIR POLLUTION MONITORING SYSTEMS UTILIZING LATEST EPA APPROVED TECHNOLOGY	COST EFFECTIVE TREATMENT OF RESIDUAL PETROLEUM GROUNDWATER CONTAMINATION USING ENHANCED AEROBIC BIODEGRADATION	DATA MANAGEMENT & MAPPING - CULVERTS, ROADS & WELLS
Presenter(s)	Vlad Dain, P.E. AMEC	John Carney Josephine Lee (CH2M Hill)	John Hesemann Burns & McDonnell	Cynthia Brown, Environmental Scientist Tetra Tech, Inc.
Organization		American Ecotech		
Description	The topic of decentralization and centralization relates to Energy, Emerging Technologies, and Community Planning. Our presentation stands out as it provides real-world examples at Air Force locations, which incorporate a growing trend in the Air Force, highlighting an emerging technology.	The topic goes to the areas of air quality control, Occupational Health Monitoring and Personal Protective Equipment/Programs, and Site Remediation and monitoring. The presentation is designed to give personnel involved in air monitoring programs across the U.S. Military tools to both develop and evaluate air monitoring programs as well as provide a review of the newest technologies in air quality monitoring and how they can assist in simplifying air quality monitoring.	This presentation is related to the Site Remediation and Monitoring and Green Remediation symposium topics. The presentation will include the following: <ul style="list-style-type: none"> • Description of groundwater remedy using an innovative, cost-effective oxidation/amendment product and injection equipment • Performance monitoring results • Photos, graphs, and charts pertinent to the performance of the remedy • Regulatory compliance, coordination, and management in a sensitive setting • Cost-benefit analysis of the groundwater remedy 	Information Management (and Training), Geospatial Information Systems and/or Water Monitoring Demonstration of use of Microsoft Access relational database combined with GIS in order to both manage and monitor various categories of information on a 106,000+-acre Air Force Bombing and Gunnery Range. The presentation stands out because of a) the uniqueness of an Air Force Range & the variety of information, and b) it shows how multiple categories of information can be handled via a relational database married into GIS.
Target Audience	This presentation is a designed for anyone interested in large scale energy reductions at their location.	Recommended audience is facilities environmental program managers, environmental project managers, administrators of environmental programs, as well as air quality monitoring site operations managers and technicians.	Environmental managers or other personnel associated with subsurface environmental monitoring or remediation.	Those with the necessity to both manage, map and monitor various categories of assets / information at their military installations. Those who would like to utilize and setup a database either standalone or combined with GIS to manage information.

TechSess#	TS-23	TS-24	TS-25	TS-26
Title	FIND REUSE & RECYCLING OPPORTUNITIES TO DISCONTINUE LANDFILL DISPOSAL & WASTE STREAMS - CASE STUDY AT VANDENBERG AIR FORCE BASE	AIR FORCE PLANT NO.4 TEXAS, REMEDIAL PROCESS OPTIMIZATION TAKING US TO GREEN REMEDIATION	AIR FORCE WATER QUALITY PROGRAM	STRUVITE RECOVERY: ADVANCED AND SUSTAINABLE NUTRIENT REMOVAL FROM WASTEWATER
Presenter(s)	Claire Hanson Tetra Tech, Inc	Mr. Rick Wice Mr. George Walters	Mr. Jay Shah, AF/A7CAN Dr. Larry Isaacs, AFCEE	Pepi Ursillo HDR Engineering, Inc.
Organization		Shaw Environmental; and USAF, ASC, WPAFB		
Description	This presentation will focus on an innovative and bold new operation at Vandenberg Air Force Base, California that recycles and reuses spent materials that were one destined for landfill disposal. The operation is called the Materials Diversion Center (MDC) and the materials that are now being reused and recycled are used furniture, wooden pallets, metals, ink cartridges, and pressure treated woods. This presentation will show directly that the MDC is a Pollution Prevention and Waste Minimization measure that can easily be implemented at any student's installation.	Topic is related to green and sustainable remediation. Focus is on using AFCEE concepts in remedial process optimization (RPO) as a tool for achieving sustainable remediation goals. Case study will be how this was done at Air Force Plant No. 4 in Fort Worth, Texas. Presenter is an active member and leader in the Sustainable Remediation Forum (SURF) and has presented before at AFCEE Technology Exchange and AF ESOH Symposiums and has been on AFCEE technical panels.	Proposed session will address enforcement action trends, pollution prevention, water quality program planning and compliance, asset management, aboveground storage tank management, Air Force policy, privatization of DoD public water systems, and other relevant / current water quality issues. This session will be helpful to legal, bioenvironmental engineers, asset managers, and civil engineers responsible for water system maintenance, operations, and environmental compliance.	Struvite Recovery technology is an emerging, sustainable means for removing nitrogen and phosphorus from wastewater streams. The technology is revolutionary in that it converts conventional pollutants nitrogen and phosphorus into a usable fertilizer product while reducing the demand and energy needed for commercial fertilizer production. The first successful full-scale commercial Struvite Recovery System in the United States was commissioned in April 2009 qualifying it as an emerging technology.
Target Audience	Pollution Prevention and Waste Minimization staff, Asset Management staff	Base environmental staff involved in site closures. Technical staff.	MAJCOM and Installation Asset Managers in water quality and environmental compliance; operations and maintenance staff responsible for water or wastewater systems; bio-environmental engineers and legal staffs involved with water quality compliance	Water/Wastewater Management professionals, Sustainability Program Management professionals.

TechSess#	TS-27	TS-28	TS-29	TS-30
Title	POTENTIAL INDOOR AIR QUALITY PITFALLS IN LEED CERTIFIED CONSTRUCTION	ENHANCED ANAEROBIC BIOREMEDIATION AMENDMENT AS A FINAL STAGE POLISHING AGENT FOR REMOVAL OF CHLORINATED HYDROCARBONS IN GROUNDWATER	TRACKING TRAINING COMPLIANCE USING INDUSTRY STANDARDS: LEARNING MANAGEMENT SYSTEM (SCORM)	POINT OF SALE HAZMART SOFTWARE (POSH)
Presenter(s)	Brian Benson, CIH, LEED AP Weston Solutions, Inc.	Walter B. McClendon Burns & McDonnell	Brian Perry EM-Assist	Mr. John D. Gaich 132d Fighter Wing, Iowa Air National Guard
Organization				
Description	Relates to Air Quality Control and also Sustainability in Green Construction Presentation will “stand out” with colorful “case study” photos illustrating key points and relaxed style that entertains as it informs. Speaker believes that technical presentations don’t have to be humorless and boring to be professional and informative. On the contrary, a more entertaining style conveys the information and ideas more effectively.	Presentation involves site remediation and monitoring at a former dry cleaner at Fort Riley, Kansas. An in-situ remediation pilot study was conducted to determine if low level concentrations of PCE could be reduced below the MCL in the Kansas River Alluvial Aquifer to reduce LTM cost. Field activities were conducted within a Bald Eagle Buffer Zone and addressed groundwater contamination under the Kansas Department of Health and Environment (KDHE) Anti-degradation clause.	This topic relates to Information Management and Emerging Technologies. The EM-Assist LMS meets the SCORM conformance requirement and will track any e-Learning courseware training that is also SCORM conformant regardless of the vendor or contractor that developed it.	Pollution Prevention and Waste Minimization Information Management and Training Occupational Health Monitoring and Personal Protective Hazardous Material Substitution/Storage/Handling
Target Audience	Garrison and DPW, facility engineers, architects, and building owners/managers	State and DOD project managers	For anyone that needs to track training compliance.	Hazardous Material Managers Pollution Prevention team members Bioenvironmental Technicians

TechSess#	TS-31	TS-32	TS-33	TS-34
Title	THE BENEFITS OF IMPLEMENTING LOW IMPACT DEVELOPMENT (LID) FOR DOD FACILITIES	AWARD WINNING PUBLIC EDUCATION AND OUTREACH	TRENDS IN PACAF EXTERNAL ESOHCAMP DATA AND FINDINGS	NEPA COORDINATION AT A JOINT BASE
Presenter(s)	Richard Woodham – Weston Solutions, Inc. Russell Moncrief	Kimberly Turner Tetra Tech, Inc.	Mr. Mark K. Petersen, P. E. (HQ PACAF) Mr. Robert H. Klawitter Jr., CSP, REM (HDR e ² M)	Leigh Hagan Brian Hoppy
Organization	Fort Stewart US Army Garrison and Weston Solutions, Inc.		HQ-Pacific Air Forces (PACAF) and HDR e ² M	HDR e ² M
Description	<p>This presentation speaks to several of the topics listed for the Technical Sessions including; Sustainability (in construction) - By showing that interlocking concrete permeable pavements are more cost effective to install and maintain than conventional pavements using the project that was performed at Fort Stewart as a realistic example using Life Cycle Cost Analysis.</p> <p>The presentation stands out by presenting examples of the multiple fiscal and environmental benefits for stakeholders at DoD facilities that implementing LID strategies provides.</p>	<p>Vandenberg AFB is the winner of many prestigious environmental focused awards (National Recycling Coalition; 2005 and 2008 White House Closing the Circle Award; and numerous General Thomas D. White Environmental Awards). Much of this success has been due to the comprehensive public education program. This presentation will show how to replicate this award winning program at the audience's respective military installations.</p>	<p>PME, Environmental Safety, Occupational Health Compliance Assessment Management Program (ESOHCAMP), other Assessments/Inspections:</p> <p>This topic relates to evaluation of historical data from Headquarters (HQ) Pacific Air Forces (PACAF) external ESOHCAMPs and how to utilize identified trends in transitioning over to meet implementation of the new Executive Order.</p>	<p>The primary objective of NEPA is to incorporate environmental aspects into the decision-making process of Federal agencies by considering the environmental impacts of an action through provision of information. NEPA is required for all Federal actions, and therefore is an inherent aspect of every Federal action. The NEPA process should occur early during the action's planning phase, and includes the analysis of various environmental resource areas, including many topics identified as relevant for the 2010 ESOH Training Symposium.</p>
Target Audience	Stakeholders and decision makers relative to stormwater management and compliance; includes Engineering, Environmental Compliance, Master Planning and Public Works.	Asset Management military and civilian personnel.	MAJCOMs performing external compliance assessments, bases conducting internal assessments, and people interested in developing their in-house Environmental Management Systems (EMS).	Planners and NEPA project managers that are involved in NEPA; personnel required to manage projects at installations undergoing Joint Basing

TechSess#	TS-35	TS-36	TS-37	TS-38
Title	AN INNOVATIVE APPROACH TO MITIGATING WETLAND IMPACTS	RECYCLING IN DOD FACILITIES – YOUR COMPETITIVE ADVANTAGE	COMPLYING WITH NEW SPCC REGULATIONS AND UTILIZING THERMAL DESORPTION FOR TANK SLUDGE	IMPORTANCE OF FALL HAZARD RISK ASSESSMENTS
Presenter(s)	Kristal Walsh Booz-Allen Hamilton	Bruce Buchan- President Midpoint International Inc.	Robert W. Doyle EQ – The Environmental Quality Company	Tracey Riepenhoff, P.E., C.S.P. Headquarters Air Force and LJB Inc.
Organization				
Description	This topic is specific to challenging issues involved with wetland permitting and mitigation routinely faced by the Natural Resources manager. As it gets tougher to find available building space in light of continued wetland loss, this approach breaks the regulatory norm of mitigating matching wetland credits and looks at the restoration of critical habitat as a viable solution. The presentation also describes the pre-application process that included regulators and experts from federal and state agencies that led to the submission of the permitting package. In addition, the method used to assess wetland functional gains and losses is reviewed.	Introduction and overview of solid waste and recycling programs on DoD facilities. The presentation addresses all aspects from initial waste audit to development of recycling initiatives, selection of equipment, communication tools, promotion, education, launch, employee buy-in to return on investment. The topic also addresses how recycling and cost avoidance initiatives can be as effective as an income producing program for recycling programs.	My topic of “Complying with new SPCC regulations and utilizing thermal desorption for tank sludge” falls into several of the listed topics, including Legal Aspects of ESOH and Regulatory Enforcement, Pollution Prevention, Above/Underground Storage Tanks and Hazardous Waste Management.	This presentation topic relates to a number of the general technical session topics listed. Elements of our presentation would cover safety products, personal protective equipment, and information management and training. The presenters have been integrally involved in the AFOSH Interim Change for Fall Protection. Based on the magnitude of the interim change program, it will be critical for safety personnel to understand the current situations, the proposed hazard abatement options and validated cost estimates – all of which can be gained by conducting a fall hazard assessment.
Target Audience	Natural resource managers, environmental program managers, base legal, element chiefs, planners, threatened and endangered species managers	Solid Waste and Recycling coordinators, Facilities Managers, Environmental Officers	Base Environmental Management; Base Civil Engineering; Hazardous Materials Managers	Safety specialists, aircraft maintenance groups

TechSess#	TS-39	TS-40	TS-41	TS-42	TS-43
Title	GROUNDWATER NITRATE FORENSICS: EXISTING AND EMERGING TECHNIQUES & CASE STUDY ON FRACTURED ROCK AQUIFER BENEATH MT HOME AFB	INSTALLATION DEVELOPMENT ENVIROMENTAL ASSESSMENT (IDEA)	SHADES OF GREEN: UNDERSTANDING THE PRINCIPLES OF SUSTAINABLE BUILDINGS	ROOFTOPS: OVEREXPOSED AND UNDERUTILIZED – SUSTAINABLE ROOFING PRACTICES	INTERAGENCY COOPERATION IN DEALING WITH BREEDING POPULATIONS OF NILE MONITOR LIZARDS (AKA “HARBZILLA”) AT HOMESTEAD AIR RESERVE BASE, FL
Presenter(s)	Dave Schwarz (URS) Tom Kendall (MHAFB)	Bruce Ramo HDR e²M	Dave Robau HQ AFSOC/A7AV	Kurt Fischer Jim Lindell	Michael J. Andrejko, PhD 482 MSG/CEV, Homestead ARB, FL
Organization	URS and MHAFB			Weston Solutions, Inc.	
Description	This study used a state-of-the-art approach to understand the source of nitrate contamination to the Base drinking water aquifer using Polar Organic Chemical Integrative Samplers (POCIS) developed by the U.S. Geological Survey. The presentation will include general information on nitrate contamination and lessons learned from this study and previous studies.	There is a focus upon NEPA this year nationally as we are celebrating its 40th anniversary. The IDEA is an innovative concept that has been endorsed by the Air Force since 2006 and recently by the Army. The IDEA is adaptable to support new concepts and initiatives, including Asset Management, the Strategic Basing Process and the new Strategic Sustainability Performance Plan requirement.	The presentation focuses on sustainable construction using green, alternative building systems. The Air Force has adopted stringent energy/water and GHG reduction goals and has implemented several initiatives to address onsite renewable energy. By incorporating sustainable building design and using alternative, resource-efficient building systems, the Air Force can reduce utility costs and make better use of natural resources.	Our topic, Sustainable Roofing Practices, relates directly to the general sustainability topic in this year’s list of topics. Our topic should stand out because the roof top space on most buildings has been overlooked as a resource for sustainable benefit towards an overall sustainable objective. Through the use of sustainable roofing materials and practices, the roof of any building can provide more just a cover for a structure.	The presented information can be used as a “lessons learned” scenario for other military facilities that also have increasing problems with invasive nuisance species, in particular as to how inter-governmental agency cooperation can be arranged easily and effectively in dealing with invasive problems.
Target Audience	Water system personnel, bioenvironmental engineering personnel, environmental restoration program personnel or others with a basic background or interest in hydrogeology or water chemistry.	NEPA practitioners, Asset Management Flight Chiefs, Natural Infrastructure and Asset Optimization Section Chiefs, AMP Champions, and programmers.	CE planners, architects, energy managers, resource efficiency managers, scientists, utility managers, natural resource managers, construction managers, housing/dormitory managers, EMS Coordinators, and UECs	Building managers/superintendants/engineers, architects, sustainability managers/officers, construction project managers, O&M personnel, environmental managers	Natural Resources; Pest Management, BASH; and Community Planning.

TechSess#	TS-44	TS-45	TS-46	TS-47
Title	LOW IMPACT DEVELOPMENT IMPLEMENTATION PLAN	EESOH-MIS IMPLEMENTATION OF COST REPORTING AND FUND REIMBURSEMENT TRACKING	EFFECTIVE DATA STEWARDING MEASURES IN SUPPORT OF EESOH-MIS	LOOK OUT EPA METHOD 9, HERE COMES THE DIGITAL ALTERNATIVE (FINALLY)
Presenter(s)	Ms. Jeree Grimes Ms. Courtney Ingersoll	Mitch Haight EM-Assist, Inc.	Steve Rasmussen EM-Assist, Inc.	Steve Rasmussen EM-Assist, Inc.
Organization	633d ABW and ARCADIS-Malcolm Pirnie			
Description	This presentation mirrors the EISA 2007 and Construction Site Stormwater Compliance Course. Presents DoD and Air Force policy guidance, and provides examples of how sustainability, which encompasses Low Impact Development, can be incorporated into building and site planning, design and construction. The course is a field guide for effective programming, planning, budgeting, compliance, design and construction.	My topic relates to all of the following topics for the list: Information Management and Training; Hazardous Waste Management; Pollution Prevention and Waste Minimization; and PME, ESOHCAMP, other Assessments/Inspections. My topic stands out because of the demonstrated (Hill AFB) impact reliable and consistent cost metrics have on waste minimization and cost savings and because of the new AFI 32-7042 and AFI 65-601 requirement.	My topic relates to all of the following topics for the list: Information Management and Training; Hazardous Material Substitution/Storage/Handling; and Emerging Technologies. My topic stands out because it addresses the details of the Hill AFB Data Stewarding project which is responsible for implementation and sustainment of the Hazardous Materials module of the Environmental Safety and Occupational Health – Management Information System (EESOH-MIS HM).	My topic relates to all of the following topics for the list: Information Management and Training; Air Quality Control; and Emerging Technologies. My topic stands out because it addresses the Digital Opacity Compliance System (DOCS) II and how the American Society for Testing and Materials (ASTM) standard regarding this technology may allow it to be used as an alternative to U.S. Environmental Protection Agency (EPA) Method 9 for fugitive emissions monitoring.
Target Audience	Asset Optimization Chiefs, Water Program, Engineers, Planners, Constr Inspectors, Regulatory Compliance Specialists, Construction Management, and Contracting Personnel	Installations implementing the EESOH-MIS HW module and anyone currently managing large volumes of hazardous waste (SQG or LQG).	Installations implementing EESOH-MIS HM module.	Installations concerned with and/or interested in the monitoring of fugitive emissions.

TechSess#	TS-48	TS-49	TS-50	TS-52
Title	INTEGRATING GREEN BASE TRACKING AND AN ENVIRONMENTAL MANAGEMENT SYSTEM	EFFECTIVE COMPLIANCE AND RECORDKEEPING STRATEGIES FOR REFRIGERANT CONTAINING ASSETS	EESHO-MIS IMPLEMENTATION OF STAGED ELECTRONIC DATA DELIVERABLES (SEDD)	UNIQUE HABITAT MANAGEMENT: SUPPORTING MILITARY READINESS AT NELLIS AFB, CREECH AFB, AND THE NEVADA TEST & TRAINING RANGE
Presenter(s)	Dave Hansell EM-Assist, Inc.	Steve Rasmussen EM-Assist, Inc.	Mitch Haight EM-Assist, Inc.	Cheryl A. Schmidt HDR e ² M
Organization				
Description	Relates to the following: Pollution Prevention and Waste Minimization; Information Management and Training; Hazardous Material Substitution/Storage/Handling; Sustainability; Energy (energy management, green or alternative sources); and Emerging Technologies. My topic stands out because it details MCLBB's Green Base Tracking System (GBTS) which is designed to optimize the implementation of an Environmental Management System (EMS) and elements of green procurement through planning, tracking and reporting of performance metrics.	Relates to the following topics: Information Management and Training; Hazardous Material Substitution/Storage/Handling; and Air Quality Control. Topic stands out because it addresses how Hill AFB is implementing more thorough refrigerant data management techniques in response to increasing climate change regulations and the increasing value of refrigerants.	Relates to: Information Management and Training; Equipment/Programs; Emerging Technologies; Hazardous Waste Management. Presentation stands out because the merging of these two relatively new technologies is the only way to electronically import analytical data into the new Environmental Safety and Occupational Health – Management Information System (EESOH-MIS) making this valuable asset available to the installation. This approach complies with the data standards adopted by the U.S. Environmental Protection Agency (EPA).	The presentation addresses integration of the state wildlife action plan with the INRMP; the process to verify and further delineate unique habitats on Nellis AFB and the Nevada Test and Training Range; and how that overall effort supports military readiness. It stands out because of the scale (~3million acres) and complexity (20 of the 27 Key Habitats identified for Nevada) of the plant and wildlife habitat represented in light of a crucial military training mission.
Target Audience	Installations implementing EMS and those interested in green procurement and tracking.	Installations involved with refrigerant management.	Installations implementing the EESOH-MIS Hazardous Waste (HW) module.	DoD Natural Resources Managers, particularly of large or complex training ranges.

TechSess#	TS-53	TS-54	TS-56	TS-57
Title	USING GIS AS A DATA COLLECTION AND MANAGEMENT TOOL DURING MUNITIONS AND EXPLOSIVES OF CONCERN (MEC) INVESTIGATIONS	RECYCLING AND QUALIFIED RECYCLING PLANS: CASE HISTORIES AND LESSONS LEARNED	STRATEGIC SUSTAINABILITY PLAN DEVELOPMENT US ARMY MEDICAL COMMAND (MEDCOM) HEADQUARTERS (HQ)	LET THE GREEN GAMES BEGIN: IMPROVING ENVIRONMENTAL TRAINING AND OUTREACH USING GAME-BASED LEARNING
Presenter(s)	Frances Curtis Weston Solutions Inc.	Suzanne Thomas-Cole, PE, QEP AECOM	E. Michael Chapa WESTON Solutions, Inc.	Mark Grosser EM-Assist
Organization				
Description	Our presentation demonstrates the integration of Geospatial Information Systems (GIS), with field investigation efforts for Munitions and Explosives of Concern (MEC) detection, removal and disposal. WESTON has created a custom information management tool which seamlessly integrates the required data with the geospatial component. We will also show how GIS is used in the planning, scheduling and QA/QC process of this type of investigation work. Future add-ons include a web-based GIS system which is accessible and editable to the entire project team, and an online reporting tool.	Qualified Recycling Plans: Lessons Learned Related to Pollution Prevention and Waste Minimization and Sustainability topics. The presentation stands out because it will provide the latest recycling markets, how to find them, data on costs and rebates, and plan approaches to assist in maximizing rebates and minimizing costs. Recycling markets have been depressed in the last year and are now rebounding but only in certain areas.	Proposed topic is the review of a currently underway project in which WESTON is providing support to the United States Army Medical Command (MEDCOM) in development of their Strategic Sustainability Plan. The project has included execution of a baseline survey of 28 MEDCOM treatment facilities located across the CONUS to determine the current state of existing sustainability programs and a benchmark review of private sector/other federal medical facility programs. The baseline survey and external benchmarking data will be used to identify sustainability initiatives most likely to produce near term and significant results for execution across MEDCOM.	My topic relates to Information Management and Training as well as Emerging Technologies. Well designed computer games are far more engaging than stand-up training or traditional e-Learning. Computer games are great motivators for learning and getting those high scores.
Target Audience	GIS professionals, Database Managers, MEC/UXO professionals, Project Managers	Installation personnel who are actively involved in pollution prevention, waste minimization and recycling including ESOH personnel who manage these activities.	Facility managers, environmental compliance officers.	Program managers or anyone responsible for ensuring effective training.

TechSess#	TS-58	TS-59	TS-60	TS-61	TS-62
Title	INDUSTRIAL PROCESS STANDARDIZATION BY WEAPON SYSTEM	HAZARDOUS MATERIAL MANAGEMENT PROCESS (HMMP) STAFF ASSISTANCE VISIT (SAV) SUPPORT TO ANG INSTALLATIONS	FLORIDA ARMY NATIONAL GUARD IS TYING IT TOGETHER: EMS, SUSTAINABILITY, AND EXECUTIVE ORDER GOALS	SULFIDE WITHIN THE WASTEWATER COLLECTION SYSTEM; AN ASSESSMENT OF SOURCES, PRESENCE AND OPPORTUNITIES TO MITIGATE, VANDENBERG AFB	A LOW-IMPACT DEVELOPMENT TOOLBOX
Presenter(s)	Sandra G. Adams Science Applications International Corporation (SAIC)	Sandra G. Adams Science Applications International Corporation (SAIC)	Kim Tayloe Weston Solutions, Inc.	Martha Wulfange Tetra Tech, Inc.	Chad S. Helmle, PE Tetra Tech
Organization					
Description	This technical session focuses on the use of standardizing process information and quickly and accurately entering the data into the EMIS Migration Utility used to migrate data to EESOH-MIS.	This all ties in with Assessments and Inspections of the Hazardous Material Management Process (HMMP)	This topic presents a process for integrating Environmental Management System (EMS) and Sustainability Planning to develop and implement a program for meeting Federal, State, and DoD sustainability requirements and goals for: <ul style="list-style-type: none"> • Sustainability Management; • Energy Conservation; • Water Conservation; • Acquisition and Green Procurement; • Pollution Prevention and Management of Toxic and Hazardous Materials; • Solid Waste Diversion and Recycling; • Sustainable Design; • Fleet Vehicles Management; and, • Electronics Stewardship. 	The topic of the presentation pertains to wastewater and summarizes findings from a study performed at Vandenberg AFB. Specifically the study evaluated source of sulfide within the wastewater system and identified opportunities to mitigate unacceptable concentrations and maintain permit compliance. The recommendations that were developed as a result of the detailed study are applicable to other installations.	This technical session will introduce a state-of-the-art approach to managing storm water needed to meet increasingly demanding regulatory requirements. The session will present a toolbox that is being developed for two ACC installations to assist with planning, design, and implementation of low-impact development to help comply with regulatory requirements in a cost-effective manner.
Target Audience	The CE Environmental Manager, Bioenvironmental Engineer, and MAJCOM Environmental and Bioenvironmental Managers	The primary HMMP team; CE Environmental Manager, Bioenvironmental Engineer, Safety, HAZMART Managers, and Shop Hazmat Monitors.	The target/recommended audience is both installation-level and command-level personnel who are tasked with meeting Federal, State, and DoD sustainability goals and EMS requirements.	Personnel that manage or operate wastewater systems and assist with assuring wastewater systems meet applicable regulatory requirements (i.e., CES/CEO and CES/CEAN).	Water managers; engineers; designers; planners;

TechSess#	TS-63	TS-64	TS-65	TS-66
Title	BEYOND THE WOW FACTOR: EFFECTIVE USE OF EMERGING TECHNOLOGIES IN INFORMATION MANAGEMENT AND TRAINING	WHAT'S IN YOUR IWIMS?	INTEGRATING SAFETY AND OCCUPATIONAL HEALTH INTO YOUR EMS	LEAD CONTAMINATION AT DOVER AFB YOUTH CENTER
Presenter(s)	Joanne K. Price Jeffrey A. Cook	Colby Hoefar Innovative Executions	David S. Gilbert Booz Allen Hamilton	William Downs USAF, 436 AMDS/SGPB, Bioenvironmental Engineer
Organization	MWH Global			
Description	This proposed presentation pertains to two topics to be highlighted for the 2010 Symposium: (1) Information Management Systems; and (2) Emerging Technologies. The presentation combines both theory and practice – research findings regarding How People Learn combined with practical examples of information management strategies and training activities that align with that research.	IWIMS is one of the key legacy datasets that underpins the Civil Engineer Asset Management Transformation. This presentation will review the importance of a sound real property installed equipment (RPIE) inventory program and how that will have a direct positive impact on other Civil Engineer programs from recurring maintenance to capitalization and activity management programs.	Quality Operating Systems (Occupational Health and Safety Management Systems based on BS OHSAS 18001:2007) ISO 14001 is designed to encourage continual improvement by integrating other programs such as safety and occupational health. OHSAS 18001 is very similar to ISO 14001 and allows easy integration of safety and occupational health programs into EMS. The session will include a comparison of both standards and provide methods for integrating safety and occupational health into an installation's EMS and will show how eDash can support safety and occupational health programs. Students, especially from the safety and occupational health arenas, will learn how they fit in and can contribute to EMS.	Water, Wastewater Control & Monitoring. Monitoring elevated lead levels in DODD School's water system. It is an in-depth look at an actual incident where elevated lead levels were present in a new Youth Center building's water system. The topic will examine the sampling techniques used to find the sources of contamination, illustrate how NSF standards, LCCA/LAP standards and AFI regulations differ, and discuss how risk communication was delivered to concerned parents. This presentation creates awareness for Air Force base personnel by preventing countless hours and money in solving similar problems.
Target Audience	Individuals who are responsible for evaluating or selecting information management systems and/or training programs or activities.	Air staff and MAJCOM staff personnel, BCEs or Deputy BCEs, CE Flight Chiefs, RPOs and all asset management personnel	All personnel including EMS coordinators, safety and occupational health program managers, Unit Safety Representatives, Unit Environmental Coordinators	Bioenvironmental and Civil Engineers

TechSess#	TS-67	TS-68	TS-69	TS-70
Title	ACHIEVING SUSTAINABLE BUILDING PRACTICES IN DESIGN AND ENERGY PERFORMANCE	LESSONS LEARNED UPDATING HAZARDOUS WASTE MANAGEMENT PLANS TO COMPLY WITH THE 2009 UPDATE TO AFI 32-7042	AF EMS IMPLEMENTATION: STATUS REVIEW AND NEXT STEPS	A COMMUNITY INVOLVEMENT SUCCESS STORY OR A STITCH IN TIME SAVES NINE
Presenter(s)	Dr. Jennifer Languell, Ph.D. Trifecta Construction Solutions	HEATHER A. SOURS URS CORPORATION	Karen Winnie A7C/A7CAN and AFCEE TDNQ	Renee T.L. Roberts, P.G. URS Group, Inc.
Organization				
Description	The presentation will discuss the importance of sustainable management practices and a reduction in green house gas emissions as required by Executive Order 13423. The presentation by Dr. Jennifer Languell, Florida's foremost green building consultant and star of the Discovery Channel's Project Earth series, will use case study examples to demonstrate how to create and operate Sustainable Design and High Performance Building. Dr. Languell is invited to speak at conferences around the world because of her knowledge, experience, engaging presentation style and pragmatic approach to achieving sustainable building objectives.	This presentation relates to the topic of Hazardous Waste Management. This presentation summarizes significant changes in AFI 32-7042 that resulted in the need to modify and clarify procedures in existing hazardous waste management plans (HWMPs). This presentation lists changes needed to hazardous waste management practices and procedures in order to implement the changes in the 2009 update to AFI 32-7042, Waste Management. All Air Force, Air Force Reserve, and Air National Guard bases are required to follow the procedures in AFI 32-7042.	Quality Operating Systems (Environmental Management Systems based on ISO 14001) CE's AFSSO-21 based Transformation Initiative M7A – Streamline AF EMS Implementation and Incorporate Asset Management and Natural Infrastructure methodologies identified several areas to improve and streamline the AF EMS approach. This session will provide what the transformation initiative accomplished and identified for future EMS implementation efforts.	This DoD (i.e., Air National Guard) community involvement success story relates to the Public Affairs and ESOH topic listed in the 2010 call for papers. Additionally, it relates, indirectly, to the hazardous waste management and water monitoring topics as well. Chlorinated solvents in groundwater is a common issue that the majority of meeting attendees will identify with; contamination extending beyond the fence line under a neighborhood is a topic that presents significant community outreach issues. This presentation will provide the audience with tools and lessons learned for managing this delicate situation.
Target Audience	Students with responsibility in the areas of civil engineering and construction, safety and health.	Personnel responsible for preparing, updating, and implementing hazardous waste management plans, shop-level personnel, base environmental management, and base contract	All personnel, especially those who are Unit Environmental Coordinators, Cross Functional Team members, EMS coordinators and those in the environmental flight.	Base Environmental and Public Affairs staff for all commands.

TechSess#	TS-71	TS-72	TS-73	TS-74	TS-75
Title	AIR FORCE PERCHLORATE SAMPLING AND DATA REPORTING REQUIREMENTS <i>IT'S NOT JUST A RESTORATION ISSUE!</i>	DANGEROUS STATES OF MIND: ADDRESSING THE HUMAN FACTOR	COMPLACENCY: THE SILENT KILLER	GIS CONCEPTS FOR ENVIRONMENTAL PROFESSIONALS	SUSTAINABILITY PAST, PRESENT, AND FUTURE
Presenter(s)	Rick D. Cox URS	Gary Higbee, Senior Safety Consultant – Presenter SafeStart, A division of Electrolab Ltd.	Don Wilson, Vice-President – Presenter SafeStart, A division of Electrolab Ltd.	Richard Olivieri ACC/A7ZG	John Mogge, PhD John W. Mogge Jr., Col USAF (Ret) CH2M HILL
Organization					
Description	The session discusses the methodology – present and future – for perchlorate data reporting and outlines the effectiveness of efforts taken to document sampling compliance, and compliance and remediation efforts. It also expresses the role of AFCEE and others in these efforts. Emerging contaminants (including perchlorate) has gained significant Congressional and regulatory interest. At present, the Air Force is undergoing a GAO audit of this program.	This safety process addresses the human factor when incidents occur. Our presenter will show how rushing, frustration, fatigue and complacency can lead to critical errors which often result in injury, lost productivity, aviation mishaps etc Our presentation addresses how to reduce human error.	Complacency is a silent killer in many organizations. This presentation will not only address how complacency occurs, but will also talk about how to fight complacency at work, at home and on the road.	Topic: Geospatial Information Systems My presentation focuses on GIS and geospatial technology. Our program here at ACC IGI&S (formerly known as “GeoBase”) is most mature implementations of GIS in the USAF – we have been by the AF Civil Engineer as the GIS lead for IT Transformation. I will focus on simple, low- to no-cost solutions for environmental personnel to utilize GIS technology and data	The theory and practice of sustainable development for capital projects is a heritage based extension of environmental planning, environmental compliance and environmental restoration, coupled with a method to achieve a balanced view of the associated economic and social issues. The presentation shares some of the international best practices for achieving sustainable base development and smart growth.
Target Audience	All Environmental professionals where perchlorate sampling is required or must be reported.	Anyone involved in Maintenance Resource Management, VPP coordinators, Anyone involved in safety at your facilities with a role in reducing injuries both on and off the job.	Anyone involved in Maintenance Resource Management, VPP coordinators, Anyone involved in safety at your facilities with a role in reducing injuries both on and off the job.	USAF (and other DoD) Environmental program managers, GIS technicians, GIS data stewards, and those interested in leveraging geospatial technology for their programs.	Anyone interested in current best practices for sustainable development and strategies for compliance with the new Executive Order 13514.

TechSess#	TS-76	TS-77	TS-78	TS-79	TS-80
Title	MASTER PLANNING EFFICIENCY INTO FORWARD OPERATING BASE DESIGN	MASTER PLANNING OCONUS BASING FROM THE GROUND UP: PROMOTING A SUSTAINABLE “COMMUNITY OF CHOICE”	USING A LIFE CYCLE ASSESSMENT (LCA) METHODOLOGY TO ADDRESS GREEN AND SUSTAINABLE REMEDIATION (GSR) CHALLENGES	DLA GREEN PRODUCTS & SERVICES	THE DOMINO EFFECTS OF STORMWATER
Presenter(s)	Robert Coker CH2M HILL	Michael Graham, AICP CH2M HILL	Paul Favara CH2M HILL	Stephen Perez	Andy Boudreau AECOM
Organization					
Description	Master Planning Efficiency into Forward Operating Base Design provides a high-level review of the challenges and opportunities related to improving Forward Operating Base (FOB) sustainability. Relevant topics include: <ul style="list-style-type: none"> Contingency and War Readiness Deployments and Sustainability Sustainability (e.g., in construction, green remediation, alternate fuels, carbon footprint evaluation) Energy (energy management, green or alternative sources) Community Planning 	Relevant topics include: <ul style="list-style-type: none"> Sustainability (e.g., in construction, green remediation, alternate fuels, carbon footprint evaluation) Energy (energy management, green or alternative sources) Community Planning <p>The presentation stands out as a great example of how land use planning directly relates to sustainability and the quality of life.</p>	Sustainability- . Addresses what we have learned about green and sustainable remediation (GSR) and where we need to go. Focus on Life Cycle Assessment and what additional insights we can get from this process.		This presentation looks at the impacts that stormwater has on a federal installation from a comprehensive approach addressing disaster preparedness, water monitoring, sustainability, ESOHCAMP, Public Affairs and community planning. I will be presenting methodologies that incorporate these needs into a comprehensive stormwater program.
Target Audience	Civil Engineers	The target audience is Air Force and Army community planners and engineers that are responsible for developing General Plans (Air Force) or Master Plans (Army) for their respective installations.	Practitioners in remediation and those interested in green construction practices		The targeted audience will be for installation managers not only dealing with compliance issues but those needing support for infrastructure, safety, public awareness, liabilities, master planning and ESOHCAMP preparedness.