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HEADQUARTERS

ENGINEERING & CONSTRUCTION NEWS

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JANUARY'S THEME:

Engineering & Construction *Architect of the Corps and Value Engineer*

DWIGHT'S NOTES

We just completed a two-day off-site with key HQ and MSC senior representatives during which we drafted the new USACE "Campaign Plan". The campaign plan will serve as the primary document for implementing LTG Flowers' intent for the U.S. Army Corps of Engineers. The plan concentrates on three key areas: Invest in People, Strategic Communications, and Business Processes. After we receive input from the District Commanders late this month, we'll start "vetting" the new Capstone (Vision) document and finalizing the Campaign Plan. The plan will be implemented starting 30 March 2001. I'm pleased with the messages and the initiatives in the plan, so far. There is a lot in it for the E&C community, if we seize the opportunity to use it to build strong technical capabilities within our PDT framework. More later.

HQ senior leaders are heading off on the 23rd for a "Staff Ride" at the Vicksburg, MS civil war battlefield-park. The Army uses staff rides to build teamwork and to help leaders apply historical events to improve decision-making. About 40 HQ people, led by the Chief of Engineers, will travel through the historic battlefield and assume the roles of famous soldiers from the Blue and the Gray armies. We'll also be attending meetings and tours of projects at ERDC (i.e. WES) and the Vicksburg District. I'm looking forward to the trip. I've been reading up on the Vicksburg Campaign for a few weeks now, hoping the General Flowers doesn't stump me with one of his probing questions about the role I'm assigned (Grant).

With the Presidential Inauguration behind us, HQ is gearing up for another transition, one that could see some significant changes in federal policies and program priorities. I recommend that you stay "situationally aware" of these changes and their impacts so you are prepared to work with them as they are implemented over the next several years. We don't know what the exact nature of them will be, but some may have a big effect on the Corps.

The theme for this issue is "Engineering and Construction -- Architect of the Corps and Value Engineer." This is the six of six issues addressing the reorganized Engineering and Construction Division. While small in numbers (total of three positions), these two areas affect our total mission. Larry Delaney provides a champion for the architects across the Corps and a primary point of contact with the individual sector architecture community. Mike Holt and Jeff Hooghouse coordinate the

DWIGHT'S NOTES (CONTINUED)

review program that adds value to our product while reducing costs. I encourage you to keep Larry and Mike informed of Architectural and Value Engineering issues and ideas. Please see more in their article below.

We are still working on getting vacancy announcements out on the nine vacancies in E&C. As the vacancy announcements come out, please place your sights on them and encourage the best in your organizations to do so as well. These jobs carry with them high responsibilities as well as great opportunities to grow in your careers and serve our nation at the HQ level. The Corps needs its top-notch talent in our headquarters to carry the professional torch and to keep the Castle shining.

Essayons,
Dwight

(Editors' note: If you want to share your thoughts with our readers regarding Dwight's Notes send an email to the E&C News editor (charles.pearre@usace.army.mil). A synopsis of your comments will be published in the next issue.)

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Engineering & Construction

Architect of the Corps and Value Engineer

ARCHITECT OF THE CORPS AND VALUE ENGINEER

This month's feature is on the Architect of the Corps and the Value Engineer. Mr. Lawrence P. Delaney, AIA is the Corps chief architect. Mr. Michael Holt, P.E. serves as the Chief of the Corps Value Engineering Office and Mr. Jeffery T. Hooghouse, AIA assists him.

The position of Chief Architect of the Corps was created in March 1999. As the Chief Architect, Mr. Delaney is an advisor to the Director of Civil Works, the Director of Military Programs Director, and the Major Subordinate Command (MSC) Commanders on technical issues concerning national and international architecture, interior design, landscape architecture, design, and construction. Mr. Delaney also provides national leadership for the USACE regarding architecture, design and construction quality, and innovation and represents the interests of the 300 architects in the USACE. He is responsible for the development, oversight and implementation of broad national and international architectural design quality objectives and architectural design and construction quality policy, criteria, and instructions for a broad range of military and other governmental facilities. Mr. Delaney represents the USACE and provides liaison, interface, technical input and participation on national committees with the architectural, landscape design, and interior design community.

Mr. Delaney provides oversight of the USACE Architectural Design Advisory Committee (ADAC) which assists in formulating policy, executing initiatives and advancing the USACE Strategic Vision. The ADAC is comprised of senior, registered architects representing each of the Major Subordinate Commands (MSC's), Centers and Laboratories. Mr. Delaney has revitalized the USACE Design and Environmental Awards program and the development of yearly Architects Training Workshops. In addition, Mr. Delaney conceived, coordinated and was committee chair for the first ever American Institute of Architects (AIA) *Public Architects Training Workshop* held in conjunction with the 2000 AIA National Convention and Exposition. This event, which is now a yearly part of the AIA Convention, attracted over 200 public architects from across the U.S. and several foreign countries.

He has participated on several USACE Process Action Teams examining Technical Excellence, Quality Management, and the Barracks Renewal program for example. He is also a member of a U.S. Office of Personnel Management, Classification Programs Division team of federal architects tasked with revising the classification standards for architects.

The combining of Civil Works and Military Programs, Engineering and Construction Divisions had little effect on the purposes/customers of Office of the Value Engineer. However, the restructuring did double the staff with hopes of improving services to meet demands. Mr. Michael Holt, P.E., C.V.S., is the Chief of the Office, and serves as the Corps expert for all aspects of the Corps Value Engineering/Value Management (VE/VM) Program. Mr. Jeff Hooghouse, RA, was re-assigned as Deputy Chief of the office this year, adding extensive knowledge of military programs to the office. As Jeff continues to transfer his previous duties to other architects within Engineering and Construction Division, the Value Engineering/Value Management Office will better perform its

missions. Michael and Jeff serve as the Corps VE/VM points of contact with all HQUSACE Directorates, the Chief of Engineers, the Department of Army, the Department of Defense, the President's Office of Management & Budget, the U.S. Congress, other Federal Agencies, and State and Local Governments.

The VE/VM program is required by Federal law, and is directed for application on all projects, processes, programs, and purchases utilizing federal funding, and totaling greater than \$1,000,000 (with the exception of construction, on which the President's Office of Management & Budget granted a minimum limit of \$2,000,000). The VE/VM Office develops, promotes, and directs Corps VE/VM policies, objectives, plans, procedures and methods to ensure compliance with Federal Laws and Office of Management & Budget directives. It manages the world-wide VE/VM Program, and provides advisory and consultation service for all programs, including but not limited to, Civil Works, Military Construction Army, Military Construction Air Force, Military Construction Navy, Department of Defense, Family Housing, Hazardous Toxic and Radiological Waste, and Support for Others. It also provides oversight to the Office of the Chief of Engineers Value Engineering Study Team (OVEST), and is the Corps VE/VM Training Proponent.

The Corps program is a problem-solving tool, which simply optimizes Value. It has been utilized to prepare project scopes; negotiate environmental contracts; shorten time to construction while providing some optimization; provide project review; provide planning assistance to states/communities; and to ensure maximum project coordination with sponsors, customers, and users. These uses have resulted in the Corps Value Engineering/Value Management program documenting and reporting \$100 million to \$200 million annually in cost savings and avoidance. These figures do not count work for others who report Corps-assisted success directly to the Office and Management & Budget and Congress. The VE/VM program has helped the Corps build over \$3.7 billion in additional facilities since program inception, without additional funds requests. These results have been audited numerous times, offering strong credibility to the excellent Corps' stewardship of local, state, regional, and federal taxpayer resources.

*POC'S: LAWRENCE P. DELANEY, CECW-E, 202-761-4945,
AND MICHAEL P. HOLT, CECW-EV, 703-428-6930*

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District of the Month

MOBILE DISTRICT

The Mobile District, like all of the districts in the Corps, is required to do more with less these days. Mobile District employs a workforce of 1,389 people with 160 being in Engineering Division (EN) and 145 in Construction Division (CD). These current employment numbers represents a substantial reduction from those the district employed a couple of years ago. The Corps is required to be more innovative in the way it conducts business. EN and CD held two partnering meetings in FY-2000 to review current business practices and develop new ones that will help meet the challenge of executing the District's large and diverse missions with a continuously shrinking workforce. Mobile District's FY-2001 workload is in excess of \$600 million. The partnering meetings have resulted in improved working relations between EN and CD, as well as being instrumental in the development of some improved business processes. The new and/or revised business processes clearly define respective rolls and responsibilities for EN and CD, thereby eliminating redundant activities and making the

processes more cost effective. Design/build, design and BCOE reviews, and communication are a few examples of processes that have been improved as a result of the EN/CD partnering meetings.

Design/Build, IDIQ, MATOC, IDT, and other innovative contractual methods used by EN and CD not only provides the district and its clients with unlimited technical and construction expertise, but also provides optimum flexibility in balancing workload with available in-house resources. This is important in meeting the challenge of doing more with less as described above, especially considering the magnitude, diversity and complexity of the District's military, civil works, support for others (SFO), HTRW, and environmental compliance, pollution prevention, and conservation programs. In addition, the district has over 2,200 miles of navigable waterways, 315 recreation areas, 79 flood control structures, 27 dams, 8 powerhouses, and 22 locks to operate and maintain. This large civil works infrastructure generates a significant number of O&M design and construction projects each year, as well as mandates large Dam Safety and Water Management programs every year. Several of the District's projects are described later to help illustrate the workload situation.

The Mobile District has brokered and is brokering work to other districts and Corps' offices to meet its commitments to clients when in-house resources are inadequate. The District's Mitch Recovery work in Latin America is a good example of this. Brokering out work is in keeping with the Corp's vision of "one door to the Corps", provides income for other Corps' offices when they need the extra work, and enables the Corps to successfully execute for its clients. EN and CD have also done some streamlining and reorganizing of their resources to help provide for a more optimum utilization of their employees. CD for example is reassigning their engineering and technical support personnel to field offices and other more construction orientated positions. CD will rely entirely on EN's engineering staff to provide technical support during construction. EN in turn has established senior technical leader (STL) positions for each major technical discipline. The STL's serve as a single point of contact (POC) for CD in requesting technical support from a specific discipline, e.g. electrical, structural, mechanical, or civil site engineer. EN can now be much more responsive to CD in providing technical support during construction. These CD/EN initiatives are also helping to reduce the layering of personnel with similar to identical functions, a practice that can no longer be allowed in this time when the workforce is shrinking. The Chiefs of EN and CD will continue to work together to find better and more cost-effective ways to serve its clients recognizing that resources will continue to be reduced. Additionally, Mobile District embraces USACE's Regional Management Center initiative, whereby each MSC will be balancing workload and the combined resources of the districts under them. The districts will execute projects working together using virtual teams and other means to get the work accomplished.

Engineering currently has 160 employees located in four branches, which are the Design Branch; Hydrology and Hydraulics Branch; Geotechnical, Environmental and HTRW Branch; and Cost Engineering Branch. EN currently has all of the technical disciplines required to function as a full service district and to execute the District's design, construction support, HTRW and other environmental missions. The majority of EN's work is performed by contractors and involves technical quality assurance (QA) reviews by EN's in-house staff. EN performs in-house design work commensurate with the resources available. EN's organization is unique in the sense that it includes the STL positions mentioned above. The STL assigns work based on capability, serves as the technical expert and POC for his/her particular discipline, develops training plans and sponsors group training for the discipline, and establishes standards. The STL also provides direct support to the field, is responsible for the QA on all projects and conducts independent technical reviews (ITR) on all in-house designs, identifies skills needed for the future, and coaches, teaches and mentors the discipline

team members. Also unique in EN is the establishment of Project Architect/Engineer (PAE) positions. The PAE is a client focused technical team leader who serves as a Project Manager (PM) liaison with the design team. The PAE provides technical support to the PM as requested. The PAE also negotiates in-house design budgets and schedules with the PM and monitors the status of each throughout the design process. In essence, the PAE is responsible for the technical aspects of in-house design projects being performed for his/her client(s).

Construction currently has 145 employees with 20 in the District Office and 125 in field offices. The District side is comprised of a Construction Management (CM) Branch and a Quality Assurance (QA) Branch. These branches provide oversight and establish policy for the field offices in their respective areas. They provide a conduit for the field into other divisions in the district. Their purpose is to be value added and not to impose an additional burden on the field. On the field side, Mobile has 6-Area Offices, 14-Resident Offices and 7-Project offices spread out over Tennessee, Mississippi, Alabama, Florida, and Central and South America. On the Military side CD provides construction oversight for projects on 5-Army installations, 12-Air Force bases and 3-NASA facilities, as well as Army Reserve and National Guard centers throughout the AOR. In Latin America CD provides support to Southern Command in the implementation of a diverse and ever changing program spread across an enormous area in eight countries. CD utilizes both American employees and Foreign Service Nationals (FSNs) to accomplish this mission. Diversity is definitely paramount to the success of this program. The Civil program in Mobile is also diverse and healthy. CD supports Operations Division in the execution of their O&M and CG programs. Projects include levees, powerhouse renovations, cut-off walls, and recreation facilities to name a few. CD annually places \$275 to \$300 million worth of construction. CD permanently staffs at approximately the 85% level and fills in the gaps with contract personnel. This allows flexibility to meet S&A targets.

The Chemical Stockpile Emergency Preparedness Program (CSEPP) is a SFO project that the Mobile District is doing for FEMA, Region IV. The project is located in Calhoun County, AL and is valued at somewhere between \$15 and \$25 million. Designs for the project are being accomplished using EN in-house resources and construction is being performed using the MATOC. The work consists of providing protection for selective facilities against potential hazardous chemical releases from the Anniston Chem-Demil facility. Currently 21 facilities have been identified to receive appropriate protection. The types of facilities are schools, hospitals, assisted living quarters, homes for the aging, retirement homes, the United Cerebral Palsy facility, 911 facility, and State Trooper Posts. Five schools are currently undergoing construction modifications for an approximate cost of \$6 million. All of the facility modifications are to be completed by February 2001.

Next is a MILCON project for the U.S. Air Force that began as a result of the turnover of the Panama Canal to the Panamanians on 31 Dec 1999. The U.S. Air Force needed several locations in the South Caribbean and Pacific Ocean to continue its operations previously conducted from Howard AFB, Panama. In May 1999, the Mobile District was tasked by the U.S. Air Force to begin site evaluations for a possible forward operating location (FOL) in Manta, Ecuador at an existing Ecuadorian air force base.



On 3 Dec 1999, Mobile District tasked the prime A/E-IDT contractor with the largest design project for South America ever awarded to an A/E by the Mobile District. It included full and complete design of nearly 10,000 feet of runway, 20,000 feet of taxiways, a million square feet of aircraft parking apron, a hammerhead turnaround, approach lighting and runway/taxiway lighting. In addition, the following were required: three water storage and distribution plants; 3,000 feet of revetment along an adjacent river bank; access roads; jet test stands; major power distribution upgrades; new power generation buildings; and sanitary sewer and storm drainage system upgrades. Concurrently, a second A/E-IDT contractor was tasked to design all of the Supporting Facilities consisting of a Squad/Ops facility, AMU, aircraft hangar, AGE, HAZ/MAT, guard houses, Fire Crash/Rescue, Visiting Quarters, and Dining Facilities. Construction on the first project began on 25 Oct 2000. The Air Force wants the FOL to be operational by 1 Oct 2001. The total construction cost for the FOL projects will be about \$61.3 million. The picture above shows the existing site in Manta, Ecuador where the FOL projects will be constructed.



FBI HAZARDOUS DEVICES TRAINING FACILITY

The FBI Hazardous Devices Training Facility is another active SFO project. It will be constructed at Redstone Arsenal, AL. The project will provide a new training facility for the FBI to train law enforcement officials in handling and disposing of bombs and other explosive devices. The design for the project was completed in July 2000 and was accomplished using an AE-IDT contractor. The project has a total PA of \$21.5 million and will be awarded in two construction phases using the IFB process. The first phase for \$9 million will be awarded in FY-2001 and the second phase sometime in FY-2002 for the remaining funds. The scheduled completion date for the phase one construction is April 2002 and the phase two construction should be completed in FY-2003. Above is an Artist rendering of the FBI Hazardous Devices Training Facility.

Mobile District is the design/construction agent for Tyndall AFB, FL and its F-22 bed-down program. There are a total of four projects in the program having a total PA of \$40.25 million. There are currently two design projects supporting the F-22 bed-down program, which are the F-22 Squadron Operations/AMU Hangar and the F-22 Fuel System Maintenance Hangar. There are two other projects at Tyndall, unrelated to the F-22, that is also under design. These are the Weapons Controller Training School and Medical Clinic ADAL, which are being designed using IDIQ contractors. Two F-22 bed-down projects, the F-22 Simulator/Academic Training Facility and the F-22 ADAL Maintenance Facility, were awarded in late December 2000 using a RFP process. An artist rendering of the two facilities is shown. Under construction right now are the Control Tower and Airfield Upgrade projects having a total value of \$12 million. These projects were awarded using the IFB process. The schedule for the F-22 bed-down program is extremely tight. A very intense construction management effort will be required by CD to ensure that all projects supporting



SIMULATOR/ACADEMIC TRAINING FACILITY

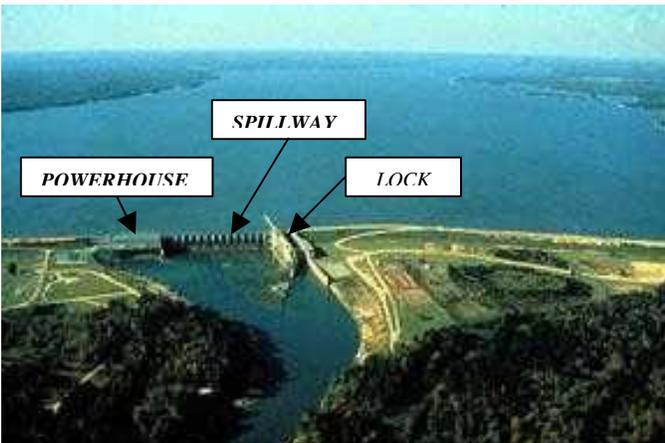


ADAL MAINTENANCE FACILITY

the bed-down program are completed on schedule and in time to receive delivery of the F-22 fighters. The first F-22 is scheduled to arrive at Tyndall AFB in February 2003. Mobile District is establishing a separate Resident Office at Tyndall AFB to ensure the successful construction management of the F-22 bed-down program and that the Mobile District meets its project delivery commitment to the Air Force.

Walter F. George L&D is one of Mobile District's twenty-eight (28) major Civil Works projects. It is a multi-purpose project that was completed and went

into operation in 1963 and is located at mile 181.5 on the Chattahoochee River, about 50 miles south of Columbus, GA and about 84 miles southeast of Montgomery, AL. The project consists of a concrete dam, gated spillway, powerhouse, a single-lift navigation lock and earth dikes extending to high ground on both banks. The lock structure provides a maximum lift of 88 feet. The 80-mile long lake created by this dam at the normal pool elevation of 190 feet NGVD has a surface area of approximately 45,000 acres. At the normal pool elevation, the pool depth behind the dam ranges from 90 to 100 feet. The power installation consists of 4-units of 32,500 kilowatts each for a total of 130,000 kilowatts. Benefits derived from the project include electric power, navigation, flood control, water supply, and recreation. The photograph above shows the existing Walter F. George L&D project.



EXISTING WALTER F. GEORGE PROJECT

The Walter F. George L&D project has experienced serious seepage problems since the initial impoundment in 1963 and has become progressively worse with time. The seepage problems are attributed to the karst limestone conditions at the site. Several major seepage events have occurred immediately downstream of the concrete structures during recent years. These have always been addressed in an emergency fashion, usually involving grouting, and have always been funded out of Mobile District's O&M budget. The Mobile District undertook a major rehabilitation study for the Walter F. George L&D project in 1996 using its

in-house resources. A Major Rehabilitation Evaluation Report was submitted to and approved by USACE in 1997. The report contained the recommendation for a concrete cut-off wall, approximately 1,900 feet in length, to be constructed upstream of the various concrete structures. The major challenge was and is installing the cut-off wall beneath 90 feet of water.

The Mobile District received Construction General funds in FY-2000 to conduct final investigations and prepare a construction-advertising package. The package was advertised as a RFP contract in October 2000. General requirements for the cut-off wall are specified, but the actual type of wall and methods of installation are to be developed by the bidders. Proposals will be received and opened on 28 February 2001. The district will evaluate the proposals and award the contract based on best value to the Government. Award is scheduled for July 2001.

The Mobile District was designated as an HTRW Military Design District by USACE in FY-1996, at which time the inherited HTRW workload was approximately \$19 million. The District's estimated HTRW workload for FY-2001 is in the neighborhood of \$60 million. Additionally, the FY-2001 environmental compliance, pollution prevention, and conservation workload is estimated to be around \$27 million. An example of Mobile District's HTRW remedial action work is the Centralized Groundwater Treatment Facility (GWTF) that is currently under construction at Anniston Army Depot, AL. The new GWTF is based on a concept and plan that Mobile District and Anniston Army Depot personnel developed, which utilizes an existing Chromium Groundwater Treatment Plant. A retrofit from a co-precipitation metal process to a metal/organic oxidative process was developed using most of the existing major equipment. The GWTF is taking the place of three individual treatment facilities, which have now been demolished due to limited operational flow rates. The new GWTF can accommodate additional flows as new contamination hot spots are discovered. A saving of approximately \$1 million was realized by the retrofit of the existing facility. Construction is being executed through a TERC on a cost reimbursable task order basis. The new GWTF is scheduled to go online in February 2001.

Additional information regarding the Mobile District and its Engineering and Construction Divisions can be found on the Mobile District homepage at <http://www.sam.usace.army.mil>. You may also contact our Chief, Engineering Division and our Chief, Construction Division, as shown below, for specific information regarding their organization.

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Update

ADVANCE NOTICE OF GUIDE SPECIFICATIONS SYSTEM CHANGE

The Military Services plan to implement a new guide specification system in March 2001. The new system will be available from the Military Services web sites about 25 March 2001 and on CCB disk Number 56.

The new system has the name Unified Facilities Guide Specifications (UFGS) and will replace the current construction guide specifications of the Army Corps of Engineers, the Naval Facilities Engineering Command, and the Air Force Civil Engineer Support Agency.

This action is in accordance with House Conference Report 105-247 requiring unified design guidance for the Tri-Services

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SURVEY OF S&A CHARGES BY DISTRICT SUPPORT STAFF

I want to thank everyone for his or her excellent responses and input. I received a total of 34 responses, with input running from the extreme left to the extreme right. Several folks indicated that their office was also dealing with this issue and requested feedback.

As we all know, the received survey data is only as good as the questions requesting the data. In this case, I assumed (incorrectly) that most districts were not providing S&A funding to the support staff and it would be a very simple task to poll the districts. However, this was not the case. From some of the received input, its clear that this is a highly charged issue, and for some a current, ever changing concern.

Results:

- Approx. 24% districts provide no S&A funding to CT.
- 76% indicated they do provide S&A funding to CT in some fashion. Most indicated for mod preparation and support on modifications in excess of the field ACO authority and/or claims. A couple had agreed up front with CT to a fee schedule for services provided and funding for CT support was provided based upon this schedule. Two districts indicated they provided CT funding for data entry of modifications into SAACONS.
- 50% provided no funding to the Safety Office. Those which did, usually only for special requests for assistance and not for routine safety inspections of a construction site.
- A couple districts did indicate that they provided some S&A funding to RMO. But since my original question did not specifically indicate RMO, I didn't draw any conclusions from this.

For everyone's information, regulatory guidance on this subject is found in ER 37-2-10, ER 37-345-10 and ER 415-1-16 (draft). The draft ER was issued in Sep 99 but has apparently not been issued in final form.

Once again, thanks for your input. If I can be of any assistance with this issue, please give me a call.

POC: WAYNE E. LEWIS, CESWL-EC-C, 501-324-5558

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VALUE ENGINEERING COLLEGE INITIATIVE

The Pittsburgh District has identified a need to strengthen its relationships with students and faculty members on college campuses. Due to the robust economy, the recruitment of engineering students has become more challenging for Federal agencies. The Pittsburgh District has developed an educational outreach initiative that utilizes the value engineering methodology to interact with students and faculty members on a routine basis on college campuses.

The objectives of the Value Engineering College Initiative are to establish a presence at colleges with a four-year ABET accredited civil engineering program; to build and maintain relationships with key faculty members and students; and to utilize the value engineering methodology as an instrument to introduce students to the Corps of Engineers and its facilities. Two universities have been chosen for the current fiscal year, University of Florida and University of Texas at El Paso. Each university will do two value-engineering studies during the fiscal year.

The Pittsburgh District's Value Engineering Officer provides the team with an introduction about our organization and twelve hours of value engineering methodology instruction. The instruction is given at the respective universities and provides the Corps of Engineers an opportunity to have a presence on campus. The classroom exercises involve the application of the value engineering methodology to active projects in the Pittsburgh District. The two projects that were used during the fall semester are: Allegheny River Lock and Dam 4 Scour Protection and Charleroi Locks and Dam Stilling Basin Extension. During the timeframe of the study, the students are encouraged to interact with not only the

Value Engineering Officer, but also Corps employees in the Pittsburgh District who are on the design team. The students are given the opportunity to review plans, specifications and reports; apply knowledge obtained from their coursework; learn about value engineering methodology; and interact with engineers and other technical experts. After completing the training and finalizing the study report, the teams travel to the Pittsburgh District; perform site visits; present their study findings to a value engineering ad-hoc committee; and interact with engineers, engineer interns and SCEPS (co-ops). When the teams visited the Pittsburgh District during the fall semester, they toured the Leestdale Casting Facility, where the dam segments for the “in-the-wet constructed” Braddock Dam are being fabricated, and Emsworth Locks and Dams. Each team consists of five students and one faculty member. As a minimum, to participate in the initiative, students must be in their sophomore year and have a grade point average of 2.5 or higher. The teams of engineering students may be utilized for identifying potential co-op students.

POC: PAULA G. BOREN, CELRP-ED-C, 412-395-7239

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A/E/C CADD STANDARDS IMPLEMENTATION

A CEMP-EE/CECW-EP policy memorandum dated 9 July 1998 mandated the use of the most current Tri-Service A/E/C CADD Standard for all projects less than 35% complete. At that time, utilities to aid in standards implementation were not available, and the effort required for implementation was not fully recognized.

Since that time, the CADD GIS Technology Center (the Center) has developed utilities for standards implementation for MicroStation and AutoCAD. The MicroStation Workspace vs. 2.0 is complete and ready for download from the Center web site at <http://tsc.wes.army.mil>. Workspace training was made available to all districts in FY00. All Workspace users' training materials are available on the Center web site and the Corps CADD web site at <http://ckb.wes.army.mil>, under “Workspace.” The AutoCAD compact version, with the same functionality as the MicroStation version, is available for Beta testing download at http://tsc.wes.army.mil/TSWS_Acad_Workspace.asp. The site describes the program and its functionality as well as allowing download of the program for passing Standards Layer information into AutoCAD. The program has been used on AutoCAD versions: 14.0, 14.01, 2000, and 2000i.

Additionally, the Corps Systems Field Action CADD (FAC) Group has developed an A/E/C CADD Standard Implementation Guide. This guide will aid USACE districts in developing a plan for implementing the Standards. A copy of the Guide will be sent to all districts in the near future. In addition to the Guide, the Group, in coordination with the Center, has developed a plan to provide assistance to districts in their efforts to implement the standards. The guide and the plan are based on real world experiences from districts that have tried to implement the standards.

The plan will be tested at two pilot districts prior to offering the services to the rest of the Corps. Jacksonville District will be first test site of this implementation. A Standards Action Workspace Team (SWAT) will be assembled to carry out the plan. The team will be made up of one person from the Center and 2-3 people from the Systems FAC. The team will give an overview of the standards, workspace training and then do discipline specific workshops. They will help the district look at its business processes, see where the implementation applies, and facilitate the dialog among district personnel as they develop their implementation plan. The standards implementation needs to be rolled into the whole business process. The way drawings are assembled will probably need to be changed if

districts are going to use the standards. Jacksonville will document the results from their implementation.

After Jacksonville does the pilot test, they will send out their implementation plan to other districts that are interested. A military district will be selected for the second pilot implementation.

After the pilot implementations are complete, the SWAT team will be available to help districts develop a Standards Implementation Plan on a reimbursable basis. Once a district implements the plan and the standards, they should generate a list of problems encountered with the standards and send them to the Center so they can revise the Standards.

POC: JEAN MCGINN, CECW-EE, 703-428-7320

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PASSING OF HOMER WILLIS

This office was sad to learn of the death of Homer Benton Willis, age 82, who was a civil engineer who served in a civilian capacity with the Army Corps of Engineers for 38 years before retiring in 1979. Homer died of cancer on August 17, 2000 at Suburban Hospital.

Homer Willis was Chief of Engineering Division, Directorate of Civil Works, when he retired in 1979. Previously he served as Chief, Engineering Division, Mississippi Valley Division, and as Assistant Chief of Engineering Division, Directorate of Civil Works, for 12 years. Homer has been included on the Chief of Engineers Hall of Fame.

POC: DON DRESSLER, CECW-E, 703-428-7304

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Dam Safety

INSPECTION, INTERPRETATION AND FOLLOW-UP

The National Dam Safety Program Technical Workshop No .8 - "Inspection, Interpretation and Follow-up" has been scheduled for February 21-23, 2001. It is the 8th workshop in a very successful and highly acclaimed series of technical dam safety training sessions, sponsored by the Interagency Committee on Dams, the National Dam Safety Program and developed through the cooperation of the Federal dam safety agencies and the Association of State Dam Safety Officials.

The workshop will examine the inspection, evaluation and appropriate follow-up actions that should be taken based on the results of the inspections for all types of dams. Since the inspection topic encompasses the most basic component for most dam safety programs, the workshop should be a significant interest to State and Federal dam safety engineers and officials, private engineering consultants, and dam owners. The workshop will feature:

- Recognized experts from private industry, the Corps of Engineers, the Bureau of Reclamation and State Dam safety programs providing insight into how observed deficiencies could effect the integrity of a dam, the seriousness of the deficiencies and the level and urgency of follow-up action.

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- Dealing with the more problematic observations such as seepage, failure mode analyses, and the decision on when to monitor and when to act.
 - Presentations on innovative and specialized inspection methods and equipment.
 - Technical and strategic aspects of implementing the dam inspection follow-up actions.

The workshop is being developed to pick up where the more basic inspection training, such as Reclamation's SEED course leaves off, and provide a higher more advanced level of technical information.

The Seminar will be held at FEMA's National Emergency Training Center (NETC) in Emmitsburg, Maryland, on February 21 - 23, 2001. The sessions will begin at 8:00 a.m. and will conclude at 5:30 p.m. on Days 1 and 2, and at 10:30 AM on Day 3.

To register for the seminar, individuals need to complete the General Admissions Application Short form (75-5a) and return it to the NETC no later than January 22, 2001 (**in block 9(a) - Course Code, write E-274**). The registration form may be faxed to 301-447-1658 or mailed to National Emergency Training Center, Admissions Office, 16825 South Seton Avenue, Emmitsburg, Maryland 21727. The form and additional information about the seminar are available at <http://www.fema.gov/emi/dsts.htm>.

POC: CHARLES PEARRE, CECW-EIS, 703-428-7343

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FERC DAM SAFETY - INDEPENDENT CONSULTANT INSPECTION WORKSHOP

The Federal Energy Regulatory Commission (FERC) will host a dam safety workshop to examine and improve the independent consultant inspection process consistent with the requirements of Part 12D of the Commission's regulations. The independent consultant inspection workshop will bring together independent consultants, licensees, Federal dam owners, and Federal and State regulators. Each topic will begin with short presentations that will focus extensive discussion among all workshop attendees. Among the topics the workshop will present are:

- How consultant requirements vary according to the details of the project works
- Inspection techniques
- When existing analyses are sufficient and when new analyses are required
- The purpose and value the Appendix D
- Inspections of Gates, Valves, Penstocks, and Surge Tanks
- Seismic, PMF and IDF Issues
- The future of Part 12D inspections

A target audience of about 100 participants is anticipated for each workshop. The two-day course will be offered at two locations.

February 6-7, 2001 - FERC headquarters, Washington, D.C.

March 6-7, 2001 - Portland, OR

If you are interested in participating in the workshop, please e-mail your name, address, and phone number to P12workshop2001@ferc.fed.us.

POC: CHARLES PEARRE, CECW-EIS, 703-428-7343

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ASDSO UNDERGRADUATE SCHOLARSHIP PROGRAM

The Association of State Dam Safety Officials (ASDSO) established its Dam Safety Scholarship Program in 1992. Each year ASDSO awards scholarships of up to \$5,000.

Scholarships up to \$5,000 will be awarded for the 2001/2002 school year. Successful recipients must be U.S. citizens and enrolled at the junior or senior level in an accredited civil engineering program, or in a related field as determined by ASDSO, and must demonstrate an interest in pursuing a career in hydraulics, hydrology or geotechnical disciplines, or in another discipline related to the design, construction and operation of dams.

Undergraduate students planning to graduate in May/December 2002 will be eligible for the 2001 senior scholarship. Undergraduate students planning to graduate in May/December 2003 will be eligible for the 2001 junior scholarship. Awards made to a person at the junior level may be renewed the following year at the discretion of ASDSO. However, the junior scholarship recipient must re-apply if interested in receiving a scholarship for the senior year.

Minimum Criteria - Applicants must have a cumulative grade point average of 3.0 for the first two years of college and be recommended by their academic advisor. They must also submit a typewritten essay describing his or her goals and purpose for applying.

Basis for Award - The basis for selection will generally follow these guidelines:

Academic Scholarship

Financial Need

Work Experience/Activities

Essay

ASDSO will be the final determiner in each instance as to which applicants will be recipients of a scholarship.

Final Application Date - Application forms can be obtained by writing to ASDSO at the address below and must be received by ASDSO no later than **February 16, 2001**. Announcement of successful candidates will be made in **May of 2001**.

This is a good program for undergraduates working as co-op students for the Corps of Engineers. The application form is available online at <http://www.damsafety.org/scholarships.cfm>.

POC: CHARLES PEARRE, CECW-EIS, 703-428-7343

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CALL FOR ABSTRACTS FOR DAM SAFETY 2001

ASDSO invites all persons interested in safety of dams to submit abstracts of papers to be considered for presentation at the ASDSO 18th Annual Conference. The Conference will be held September 9-12, 2001 at the Snowbird Resort in Snowbird, Utah. Engineers, geologists, hydrologists, dam owners,

state, local, and federal officials, industry representatives and others working in the field of dam safety are invited to share their experiences in all aspects of dam safety. Conference presentations are scheduled for 30 minutes each. Authors may choose from, but are not limited to the following general subject areas: (*Specific topics are suggested for guidance only*).

- Hydrology & Hydraulics -- Such as risk analysis/assessment, paleohydrology, PMF/PMP, overtopping, and spillways.
- Geotechnical Issues -- Such as grouting, rock anchors, liquefaction, slope stability analysis/design, seismic issues, seepage, and instrumentation/monitoring.
- Emergency Preparedness -- Such as flood warning systems, EAPS, Dambreak applications, and disaster mitigation.
- Dam Design & Rehabilitation -- Such as case studies in rehabilitation, (small dams case studies needed, including lessons learned), underwater operations, RCC, spillways, stabilization and instrumentation/monitoring.
- Dam Inspections -- Such as outlet works, radial gates, dam owner experiences and solutions, and inspection techniques.
- Removal of Dams -- Such as dam breach issues, innovative engineering and construction techniques, and environmental issues.
- Dam Safety Regulatory Programs -- State programs, federal programs, public relations, programs in other countries.
- Dam Owner Issues -- Lake management, environmental issues, shoreline erosion, remote operations, public awareness, and public safety at dams.
- Dam Construction -- Such as environmental issues, contractor experiences, spillways, instrumentation/monitoring, and general case studies.
- General Information/Multi-Category -- Such topics as computer applications, current technical research, and model testing.

Guidelines for Submitting Abstracts -- *Please follow these easy steps.*,

- Abstracts must be 200-300 words, typewritten in paragraph form, single spaced. For clarity and ease of review, please use no smaller than a 10 point font.
- Submit abstracts and author information to ASDSO in one of the following ways:

Mail ASDSO, 450 Old Vine Street 2nd Floor, Lexington, KY, 40507. Please enclose the completed Entry Form.

Fax (859) 323-1958 Please fax very clear, typewritten originals only, and attach the completed Entry Form.

On Line You can submit an abstract at www.damsafety.org (go to "Conferences & Training")

Regardless of the form of submittal, you will receive an emailed acknowledgment of the receipt of your abstract.

- Abstract and paper titles should be short. but descriptive. Catchy titles, indicating benefits to the audience are encouraged.

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- Please do not send supplemental materials (photos, articles or reports) with your abstract, these will not be seen by the program review committee.

Judging Procedures and Deadlines for abstracts are as follows:

- All abstracts must be received by ASDSO or postmarked by **March 1, 2001**.
- All submittals are reviewed by the Conference Program Committee. Abstracts are approved for inclusion in the conference program by the ASDSO Board of Directors upon recommendation by the Program Committee.
- Proposals constituting sales pitches for products or services will not be considered.
- Announcements of selected papers will be made on **April 16, 2001**.
- In order to be published in the proceedings and presented at the conference, a draft of your paper must be submitted for peer review by a committee member by **May 25, 2001**. You will receive comments from your paper's peer reviewer, and the final camera-ready version of your paper will be due by **July 20, 2001**. Full papers are limited to 12 pages in length, including photos and graphics.
- Please note: Submitting final papers constitutes agreement that the author(s) will register for the conference at the appropriate fee, attend the conference and present their paper in person.

Further instructions for speaker preparation will be provided upon notification of a paper's acceptance.

Please submit the following information as a cover sheet with your abstract.

ENTRY FORM FOR ABSTRACTS

Paper Title

Paper Category/Topic

Primary Author (This author will be the only person contacted regarding the status of the entry) -- Name, Title, Company/Agency, Address, City, State, Zip, Country, Phone, and E-Mail

Co-authors (Please list the following information for each co-author. You may attach co-author's business card in lieu of filling in the information.) -- Name, Title, Company/Agency, Address, City, State, Zip, Country, Phone, and E-Mail

List of Other Conferences Where This Paper Has Been Presented

POC: CHARLES PEARRE, CECW-EIS, 703-428-7343

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Information

**2001 SAME GREAT LAKES AND OHIO VALLEY
REGIONAL CONFERENCE AND SERVICE CHIEFS' BRIEFINGS**

The Rock Island and Illini Posts of the Society of American Military Engineers will host the 2001 Great Lakes and Ohio Valley Regional Training Conference and Service Chiefs' Briefings at the River

Center, Davenport, Iowa, 13-15 March 2001. The 2001 conference program includes sessions on river systems and their associated ecosystems, the latest in engineering technology and educational advancements, a small business conference, young member education and technology seminar, and updates from the Chief Engineers of the Military Services, Coast Guard, and Public Health Service. A spouse program with tours of the historic sites in the Quad Cities is also available.

The conference web site at http://www.same.org/rockisland/conf_01/index.html contains additional information and registration forms for the conference.

POC: MICHAEL J. TARPEY, CEMVR-ED-DN, 309-794-4179

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JOB VACANCIES

Two vacancies are highlighted here for the information of our readers.

FAR EAST DISTRICT TDY VACANCY -- The Far East District is need an Office Engineer on TDY to support their Central Resident Office, at Osan Air Base, Korea, until they can recruit for the position. The district is looking for a GS-08xx -12 with Office Engineering/Negotiating experience for 45 to 60 days TDY. Extensions would be with the concurrence of all parties. They would like the individual to be there as soon as possible, and no later than 1 February. Individuals interested in this TDY assignment should respond directly to the Resident Engineer, Pete Perez, peter.g.perez2@pof02.usace.army.mil.

Galveston District Vacancy -- The Galveston District has advertised for a GS-13, Civil Engineer (GS-0810), who will serve as a Regional Technical Specialist and Technical Manager having overall responsibility for the District's geotechnical and coastal engineering programs. The position requires extensive first hand knowledge and experience in sampling and testing of soils within the area, performing design analyses and in resolving field difficulties associated with construction in this geographic area. Knowledge of many diverse foundation design and treatment techniques including pile design, staged construction involving material displacement, dewatering and specialized treatments of soils is utilized in making recommendations and directing design work is also required. The individual will be responsible for the planning and direction of geotechnical field and laboratory investigations for all projects. This work involves the development and execution of contract exploration and testing programs of subsurface materials and materials to be used in construction, including the review and negotiation of Government contracts. Also, the position is responsible for the analysis and evaluation of field and office data and for the preparation of the geotechnical portions of all studies, reports, designs, and plans and specifications produced by the District. The individual will perform technical reviews of design memoranda and plans and specifications, including those produced by Architectural Engineering contract for technical adequacy, compliance with established principles and procedures and for meeting customer needs. The individual will also serve as team leader of special task groups seeking solutions to difficult geotechnical problems facing District projects and as District's Dam Safety Program Manager. The position serves as District's primary advisor to other elements of the District. Division and Headquarters staffs, Corps laboratories, local project sponsors, Architectural Engineer firms and other expert consultants on all matters related to research and design. A copy of the announcement number 110711JM1, which closes on 7 February 2001 can be obtained for the Army Civilian Personnel Online Vacancy Announcements web site.

*POC'S: ROD E MARKUTEN, CEPOD-ET-C, 808-437-9737,
AND DAVID CAMPBELL, CESWG-EC-ES, 409-766-3162*

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ARMY ENGINEERS RAN THE WHITE HOUSE

In early 1877, President Ulysses S. Grant appointed Colonel Thomas L. Casey as his Commissioner of Public Buildings for the District of Columbia, which also made him the Administrator of the White House.

Thus began the 57-year tradition of an Army Engineer occupying that position. That officer also served as the Army's military aide to the president. This custom lasted until 1934 when, as part of a larger reorganization, President Franklin D. Roosevelt transferred that position to the National Park Service.

Prior to Casey's appointment, the Army officer selected could come from any branch of the Army. Appropriately, the last Engineer officer to hold that responsibility was Colonel Ulysses S. Grant III, grandson of the president who first appointed an Army engineer.

Colonel Spencer Cosby served as White House administrator and commissioner from March 1909 to October 1913. Like Casey, Cosby was "first" in his West Point class and well versed in the social graces. Shortly after his appointment Cosby oversaw design and construction of new executive offices at the White House. One new office for President William H. Taft's use became known as the Oval Office. Cosby remained commissioner into the early months of President Woodrow Wilson's administration. He not only helped guide the new president through his first inauguration, but also worked with his family on remodeling their quarters. Cosby went on to become military attaché to the American Embassy in Paris, France, as World War I began in Europe. After additional diplomatic and military service, Cosby retired in 1928 as Division Engineer of the Lakes Division in Cleveland, Ohio.

POC: PAUL WALKER, CEHO, 202-761-5224

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(This article was taken from the Office of History Historical Vignette #6.)

FEATURE ARTICLES & NEWS ITEMS FOR SAME PUBLICATIONS

The Executive Director of the Society of American Military Engineers, Pat M. Stevens, IV, MG, US Army (Retired), has issued an appeal for articles for the SAME publications.

The Society is looking for feature articles and news items. They are looking especially for feature article manuscripts about:

- Facility Engineering -- New design and construction requirements in the coming fiscal year (whether totally new or for renovation only); new and renovation design and construction projects now underway; new privatization / outsourcing initiatives (for facilities, utilities, housing); new or changed methods of contracting/procurement for same; and, the use of new designs, materials and systems in new or renovated structures. (Deadline: January 3, 2001 [for March-April issue of TME.]
- Information Technology & Knowledge Management -- How are the uniformed services using - or planning to use - information systems to improve planning, designing, project management and contingency operations enterprise wide (in U.S. and worldwide)? And, how are the uniformed services using - or planning to use - IT systems for e-commerce; for what, in what ways, etc.? Deadline: March 1, 2001 [for May-June TME]

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- Federal Engineering in FY02 -- This annual edition contains bylined articles by the chiefs of engineering in the uniformed services and in other federal government departments and agencies. The articles should cover, (1) Details of design, construction, renovation and environmental projects planned for Fiscal Year 2002; (2) New or changed government contracting and procurement methods and regulations; (3) New ways of doing business with the private sector; and, (4) Any changes in the organization or functions of your command(s). Deadline: May 1, 2001 [for July-August TME; will also be distributed at SAMEs National Conference in Nashville.]

They also need news items about:

- Newly planned / upcoming projects
- Newly planned business related opportunities (joint R&D/CRADA's; privatization / outsourcing; etc.)
- New changes in ways of doing business
- Searches for new design, construction, environmental techniques, materials, technologies, etc.
- New regulations / rules
- New changes in organizations / functions of organizations
- Assignments and reassignment info about senior level engineering personnel
- Joint military engineering topics (doctrine, planning, equipment development, field & command/staff exercises, etc.)

All Districts and MSC's are encouraged to submit articles to SAME for publication. If you do not have a copy of the SAME Editorial Calendar and Writers Guide, please e-mail Gordon Bratz at gbratz@same.org and request a copy.

POC: CHARLES PEARRE, CECW-EIS, 703-428-7343

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Training

VALUE ENGINEERING WORKSHOP, PROSPECT COURSE

The Corps of Engineers PROSPECT course, Value Engineering Workshop, has been recertified and complies with the certification standards set forth by the Society of American Value Engineers (SAVE) to fulfill the Module I workshop requirements portion for Certified Value Specialists.

The purpose of the course is to provide participants with the requirements, policies, and procedures necessary to enable them to perform effectively as a value engineering study team member or leader; to recognize potential areas for VE studies; to identify the value of having an active Value Engineering Program; and to motivate the participants to support continued development.

Course participants are involved in workshops using actual value engineering studies of construction items selected by the offices involved. This course is designed for training construction and design engineers and technicians; however all levels of management benefit by attending.

Session 01-01 is scheduled 30 April through 4 May 2001 in Huntsville, AL.

Anyone interested in attending the course should contact the Registrar's Office, Professional Development Support Center, Huntsville, AL, at 256-895-7421 or 256-895-7425. Course tuition is \$870.

POC'S: MARY JO BALL, CEHR-P-TO, 256-895-7428

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ARCHITECT-ENGINEER CONTRACTING INSTRUCTORS WANTED

We have a very active one-week PROSPECT course on Architect-Engineer Contracting. The course is given 10-12 times each year to total of about 300 students. Many senior instructors in this course have recently retired, been reassigned or promoted. Hence, there are several instructor vacancies in this critical course. To be a good instructor requires substantial experience in all phases of A-E contracting as well as the "knack" for teaching.

If you are interested, e-mail a short resume of your experience and training in A-E contracting to Don Evick at HQUSACE. Route the message through your supervisor to indicate management support. If you are accepted as an instructor, you will be required to attend a one-week instructional methods course and student teach in a session with two experienced instructors. Then you will be expected to teach once per year. The Professional Development Support Center in Huntsville pays for all labor, travel and other costs.

Please pass this article on to anyone in contracting who you think would make a good instructor.

POC'S: DON EVICK, CECW-ETE, 202-761-4227

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Open Discussion and Comments

VIDEO TAPES OF DAM SAFETY SEMINAR

Question from Little Rock District: I had a question about the Dam Safety Conference to be held in February. I am sure that Little Rock will send representatives to that conference. However, the subject is so important I would like more of our team members to be able to view the proceedings. Do you know if any of the sessions will be videotaped? If so, SWL would be interested in copies of the tapes for dissemination of information and also for allowing engineers to obtain Continuing Professional Development credits.

Response: The seminar is being held at FEMA's Emergency Management Institute and that organization does not have the capability of video taping the seminar without adversely interfering with those who are attending in person. Therefore, it is our recommendation for each District to maximize attendance at the seminar.

POC'S: CHARLES PEARRE, CECW-EIS, 703-428-7343

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No Items Submitted for this Issue.

(Editors' note: If you want to share your thoughts with our readers regarding a subject of general interest, send an email to the E&C News editor at charles.pearre@usace.army.mil. A synopsis of your comments will be published next time).

Editors' Notes

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SUBSCRIBE TO ECNEWS

Engineering and Construction News uses a subscription list on the Corps List Server. The name of the list is LS-ECNEWS. The purpose of the list is to distribute the Engineering and Construction community newsletter, *Engineering and Construction News*.

You can subscribe or unsubscribe to LS-ECNEWS by sending an e-mail message to majordomo@ls.usace.army.mil with no subject line and only a single line of text in the message body. That single line of text should have the following format: **subscribe ls-ecnews** or **unsubscribe ls-ecnews**. The List Server system will automatically pick up your originating e-mail address from the message and add it to or delete it from the distribution list.

If you have any questions about the list server, see the List Server E-Mail Delivery System web page at <http://eml01.usace.army.mil/other/listserv.html>. Or you may contact Charles Pearre if you have additional questions on the subscription list.

POC: CHARLES PEARRE, CECW-EIS, 703-428-7343

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