



CADD/GIS Bulletin

Tri-Service Information Exchange Bulletin

Volume 96-2

Special Edition

August 1996

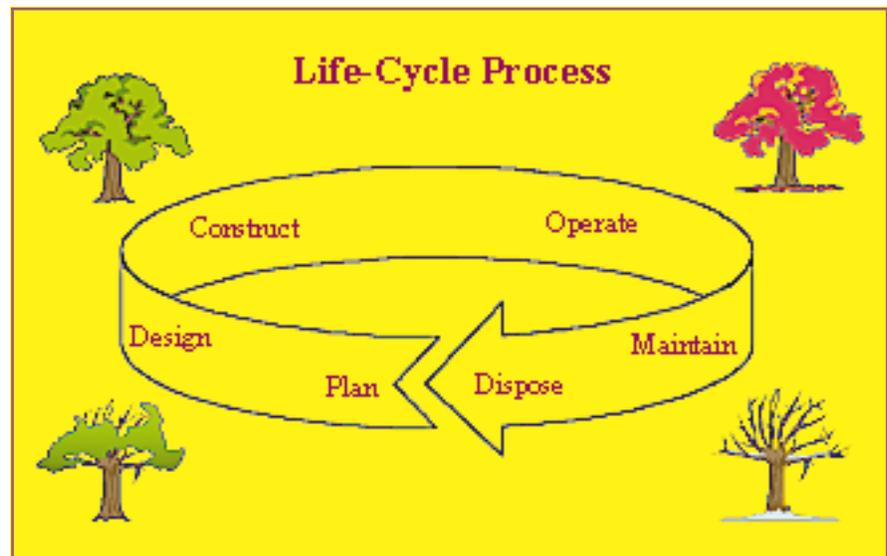
Published by the Tri-Service CADD/GIS Technology Center, U.S. Army Engineer Waterways Experiment Station

What's What with Field Working Groups!

Introduction

This issue is dedicated to the Tri-Service Computer-Aided Design and Drafting/Geographic Information Systems (CADD/GIS) Technology Center's Field Working Groups (FWGs) which represent the user community. The restructuring and planned activities of the current FWGs are discussed in this special edition newsletter. During the first and second quarter of FY95, an assessment of the FWG organizational structure and accomplishments during the 1992-1994 period was made from multiple viewpoints including the Field Technical Advisory Group (FTAG), Executive Working Group (EWG), Tri-Service Center staff facilitators, and tri-service field users.

Under the leadership of the FTAG, the FWGs were restructured from 21 single-discipline groups to 8 process-oriented



groups reflecting application of the CADD/GIS technologies. As the field and data integration requirements evolved and expanded over the last few years, it was necessary to update the coordination and organizational role of the FWGs. Acting as representative agents, the FWGs provide

invaluable feedback on user needs, implementation concerns, and software applications for the CADD/GIS technologies to the Tri-Service Center.

Table 1 lists the process-oriented FWGs and their accompanying specialties.

Inside this edition . . .

What's What with Field Working Groups!

↳ Field Technical Advisory Group

↳ Field Working Group Summaries

Calendar of Events



Table 1. Tri-Service Center Field Working Groups/Specialties

FWG	Specialties	FWG	Specialties
Design	Architectural Mechanical Electrical Interior Design Structural Civil/Site Geotechnical Landscape Surveying/Mapping Project Management Cost Engineering Specifications	Military Planning	Master Planner Mapping Specialist Remote Sensing Global Positioning System Space Utilization Mobilization Base Comprehensive Planning
Facility Management	Systems Electronic Document Systems Management Facility Manager Installation Facility System Management Work Information Management System Naval Facilities Assets Database Maintenance and Revision Space Utilization	Construction	Construction Manager Bid Constructibility Operation Review Quality Assurance Specialist Modification Specification
Natural and Cultural Resources	Agronomist Forester Biologist Archaeologist Natural and Cultural Resources Planner Historic Preservation Officer National Environmental Policy Act Specialist Landscape Architect	Systems	NT/UNIX/DOS Experience System Manager Networking Budgeting Data Management Communication Programmer Internet Manager
Civil Works	Study Manager Economist Hydrologist Planner Recreation Planner Hydraulic Engineer Social Scientist Surveying and Mapping Specialist Real Estate	Environmental	Compliance Restoration Pollution Control Pollution Prevention Conservation Installation Restoration Program Underground Storage Tank Safety and Health

The outcome of a series of FTAG and concurrent FWG meetings held during FY95 was the establishment of new "core" FWGs: Civil Works (formerly Civil Planning); Military Planning; Natural and Cultural Resources; Design; Construction; Facility Management - Maintenance and Repair, and Facility Management - Space Utilization (subsequently combined); Environmental; and Systems.

Members of the restructured FWGs were drawn from the original FWGs based on assembling the appropriate skills and processes for the respective FWG areas. In addition, new members were recommended

by the FTAG proponents of the three services based on the new approach. Former members and affiliated points of contact and Laboratory proponents were maintained as consultants. Many of these members had served on task groups to support Center-sponsored projects. The net effect of the restructuring in terms of members involved was a reduction from about 160 to 80.

Meetings and significant accomplishments of the FY96 FWGs are summarized later in this special edition.

The Tri-Service Center is dedicated to fostering the application of computer-aided design and drafting (CADD) and geographic information system (GIS) technologies for facility life-cycle efforts throughout the Army, Navy, and Air Force. The CADD/GIS Bulletin is published by the Tri-Service CADD/GIS Technology Center of the Information Technology Laboratory, U.S. Army Engineer Waterways Experiment Station, 3909 Halls Ferry Road, Vicksburg, Mississippi 39180-6199.

Field Technical Advisory Group

The FTAG is a support organization of the Center that directs and monitors the efforts of the Center's FWGs. According to the FTAG's Charter, the primary objectives of the FTAG are to coordinate policy, from a field perspective, among the various disciplines and services; to facilitate standardization and integration; and to promote the use of CADD/GIS technology. The FTAG reports the progress of the FWGs to the Center's EWG, of which the FTAG Chair is a member. The FTAG provides the Center with management-level field expertise from each service and the Corps of Engineers.

FTAG members are appointed by the EWG and serve a maximum of 4 years. The current FTAG members are listed in Table 2. The FTAG Chair serves for 1 year; this chairmanship rotates between the Army, Navy, Air Force, and Corps of Engineers.

Five FTAG meetings have been held to date in FY96. Table 3 summarizes information about these meetings. The last FTAG meeting of FY96 is scheduled to be held 27-29 August 1996 at Ft. Carson, CO.

Table 2. FTAG Members

Name	Agency	Duty Station	Phone	Fax	E-mail Address
Gary Huneycutt (Chair)	Air Force	Brooks AFB, TX	210-536-4238	210-536-5981	ghuneycu@afceeb1.brooks.af.mil
Bobby Bean	Navy	Patuxent River, MD	301-342-3101 x317	301-342-3546	bean_bobby%pax9a@mr.nawcad.navy.mil
Terry Coomes	Corps of Engineers	Ft. Worth District	817-334-3565	817-334-7046	terry.coomes@swf01.usace.army.mil
Deborah Duncan	Army	Ft. Carson, CO	719-526-3415	719-526-5245	dpw@carson-emh1.army.mil
Joe LaVoie	Army	Aberdeen Proving Ground, MD	410-278-4817	410-278-3480	jlavoie@apg-9.apg.army.mil
Eugene Tickner	Corps of Engineers	New Orleans District	504-862-2240	504-862-1585	ticknere@smtp.lmn.usace.army.mil
Tom Weigand	Navy	SW DIV NAVFAC	619-532-3748	619-532-3824	trweigand@efdswest.navfac.navy.mil
Major Dennis Anderson	Air Force	Tyndall AFB, FL	904-283-6209	904-283-6499	andersod@afcesa.af.mil

Table 3. Summary of FY96 FTAG Meetings

Date	Location	Accomplishments
17-19 October 1995	Aberdeen Proving Ground (APG), MD	Reviewed FY95 accomplishments Formulated FY96 metrics Viewed demonstration of APG's GIS system
9-10 January 1996	San Antonio, TX	Reviewed 1st quarter status Developed Call for Center Projects schedule
26-28 March 1996	Patuxent River Naval Air Warfare Center (PAX River NAWCAD), MD	Reviewed 2nd quarter status Reevaluated metrics Viewed demonstration of PAX River NAWCAD's Facility Management System
21-23 May 1996	Arlington, TX	Met jointly with FWGs to rank FY97 proposed projects and to formulate the FWG's FY97 goals and objectives
23-25 July 1996	New Orleans, LA	Reviewed 3rd quarter status Ranked the Center's FY97 projects creating a proposed budget to submit to the EWG Viewed CADD and GIS project demonstrations at the New Orleans District (USACE)

Field Working Group Summaries

Military Planning

Chair: Ricky Truluck, Savannah District,
U.S. Army Corps of Engineers
Vice-Chair: Victoria Williams, Peterson AFB
Tri-Service Facilitator: Chris Dixon



Responsible for promoting and exploring innovative ways to use CADD/GIS technology to improve and automate the planning process, this group is currently authoring an implementation guide for CADD/GIS technology within military organizations. A subtask group has met twice to create the draft of the guide, which was presented as a draft report in May 1996 and will be published by the end of the FY. During the May joint FWG meeting, the group identified the FY97 projects to include professional development of roles and responsibilities for tri-service planners (CADD/GIS), hosting a workshop to present findings, and producing a final report. The FY97 officers will be Victoria Williams as Chair and Randall Mayne, Fort Worth District, as Vice-Chair.

Civil Works

Chair: Blaise Grden, Walla Walla District, U.S. Army Corps of Engineers
Vice-Chair: Carol Anderson-Austra, Baltimore District, U.S. Army Corps of Engineers
Tri-Service Facilitator: Harold Smith

The purpose of the Civil Works FWG is to provide a forum for civil works issues (not covered by other FWGs) by sharing ideas, problems, and solutions through the application of GIS, CADD, and other related technologies in order to better serve Civil Works within the USACE, the Department of Defense (DoD), and the Nation. (*The Civil Works FWG is the only group composed entirely of Corps of Engineers members*). A goal for this year is to recruit more specialists involved in civil planning and related technologies. At the joint FWG meeting in Arlington, Texas, the members of the Civil Planning FWG recommended that the group be expanded and renamed Civil Works FWG. The FTAG concurred with the change.

A Survey and Mapping Task Group was established under this group. The Survey and Mapping Task Group formed the Tri-Service GIS Deliverables Standards Task Group, chaired by Arthur Bennett, Walla Walla District. The group completed a second draft of 1.2 GIS Deliverables Standards, which is a part of the Tri-Service Standards.

Design

Chair: Stan Shirk, Omaha District, U.S. Army Corps of Engineers
Vice-Chair: Gary Boyd, Southern Division, Navy
Tri-Service Facilitator: Stephen Spangler

The Design FWG represents a cross section of members from previous FWGs representing the design disciplines (i.e., architectural, mechanical, electrical, etc.). The chief objective of the group this FY is the streamlining of the Construction Document Process. To achieve this mission, the group will support and review two projects: "Maintenance and Revision of A/E/C Standards" and "Generic Details Library Updates and Revisions." Both projects lead to increased sharing of design information among the tri-services as well as savings in design time, which ultimately results in cost savings for the DoD. Future phases of existing projects were discussed at the May joint FWG meeting. The group will continue to support the A/E/C CADD Standards efforts and will continue development and

distribution of details for the CADD Details Library CD. The new officers elected for FY97 are Gary Boyd, Navy Facilities Engineering Command, Southern Division, and Scott Hinte, Corpus Christi Army Depot.

Construction

Chair: Donald Tsao, EFA West, Navy

Vice-Chair: Alex Shum, Ft. Sam Houston

Tri-Service Facilitator: Elias Arredondo

This group is new and fits in the installation management process between design and facility maintenance. This group's mission is to support the technological needs of the construction phase of the life cycle as well as to facilitate information flow among the project life-cycle phases. Their current project is to identify construction project management software for field personnel. To accomplish this project, a listing of software and features will be placed on the group's homepage for users by the end of this FY. The officers for next FY will swap duties with Alex Shum as Chair and Donald Tsao as Vice-Chair.

Facility Management - Maintenance and Repair*

Chairman: Bryan Miner, Buffalo District, U.S. Army Corps of Engineers

Vice-Chair: Calvin Grams, U.S. Air Force Academy

Tri-Service Facilitators: Jeff Egan/Terry Pace

This group is currently championing two tri-service projects: "Electronic Document Systems Management (EDMS)" and "Facility Management Standards." The chief objective of the group is the tri-service implementation of the EDMS project. To achieve this mission, the group has initiated discussions with several other FWGs, notably Systems and Planning, in order to assess the multiple requirements of various disciplines for digital information, which will be critical to moving DoD forward to improve automation. The FY97 officers are Calvin Grams as Chair and Bill Hudson, Crane Naval Weapons, as Vice-Chair.

Facility Management - Space Utilization*

Chair: Bill Hudson, Naval Surface Warfare Center

Vice-Chair: Vivian Sanchez, Southwest Division, Navy

Tri-Service Facilitators: Jeff Egan/Terry Pace

The group's FY96 project is "Trial Implementation of Governmental Interoperability of Facilities Management Systems." The goal of this project is to develop guidance for military installations and local government computer-aided facility management interactions. A report detailing the regional effort to gather and distribute computer-aided facility management information, lessons learned, and digital conversion methods will be developed for reference at other military installations. In particular, the group plans to develop a white paper on the interoperability of Facility Management Standards. The FY97 officers are: Calvin Grams, U.S. Air Force Academy, and Bill Hudson.

* As a result of the joint FWG meeting last May, the members of both Facility Management FWG's recommended combining into one group, as approved by the FTAG.

Natural and Cultural Resources

Chair: Tracy Kissler, Air Force Center
for Environmental Excellence

Vice-Chair: Tad Britt, Vicksburg District,
U.S. Army Corps of Engineers

Tri-Service Facilitators: Laurel Gorman/Ed Riegelmann



Currently, this group provides a forum for members of the tri-services to discuss issues and develop tools pertaining to the application of CADD and GIS technologies to natural and cultural management issues and problems. The FWG has identified key processes such as public law adherence that all installations must comply with to protect natural and cultural resources. The automation of these processes requires the development of CADD and GIS technology guidance products. The FWG identified, after lengthy discussion, an FY95/FY96 project to develop a number of these technology guidance products, entitled "CADD/GIS Integration of Remote Sensing for Natural and Cultural Resource Management." The overall objective of the FWG-sponsored project is to develop common guidelines for the utilization of remote sensing technology for installation CADD and GIS implementations. This project will catalog available remote sensing resources, common retrieval and analysis methods, and case studies and will provide installation users with Internet and digital guideline products. To date, the contractors and members of the FWG have completed a draft report on guidelines for the use of remotely sensed data for installation, planning, operations, and maintenance activities using CADD and GIS technology. The draft report was reviewed in depth during the May 1996 meeting in Arlington, Texas. The Natural and Cultural Resources FWG members scheduled their next meeting August 12-16 in Colorado Springs, Colorado. The U.S. Air Force Academy will host the meeting. The FY97 officers are Tad Britt, Chair, and Ken Bristol from the Eglin Air Force Base, Florida.

Environmental

Chair: Chris Kyburg, Southwest Division, Navy

Vice-Chair: Sam Bass, Omaha District, U.S. Army Corps of Engineers

Tri-Service Facilitator: Bobby Carpenter

This group, which evolved from the Hazardous, Toxic, and Radioactive Waste (HTRW) FWG, addresses issues relating to environmental restoration and compliance, and facilitating the use of CADD and GIS as tools in accomplishing their mission. The FY96 project for this group is "Identify and Review Environmental Restoration/Compliance Initiatives and Communicate with Other Agencies/Organizations." Specific goals for this project include evaluate and develop environmental training and installation support, and create a web site and database focused on environmental GIS. The final meeting was held 30-31 July 1996 in San Diego, California. Next year's officers will be Sam Bass as Chair and Logos Yuen, Air Force Center for Environmental Excellence, as Vice-Chair.

Systems

Chair: Jimmy Comer, Nashville District, U.S. Army Corps of Engineers

Vice-Chair: Sharon Shaw, Brooks AFB

Tri-Service Facilitator: Ronson Kung

The goal of the Systems FWG is to improve communications in the area of systems support between the different services and to promote increased productivity using CADD and GIS tools. The group's current projects include a communications server to provide better information flow and a project to set up a mechanism to collect and distribute lessons learned. John Kincaid was elected as the FY97 Chair from USACE Rock Island District.

Tri-Service CADD/GIS Calendar	
Date	Event
Organizational Meetings	
August 26-28	Field Technical Advisory Group Meeting. Fort Carson, CO. POC: Andy Covington, (601) 634-4485
August 29	Executive Working Group Meeting. Washington, DC. POC: Harold Smith, (601) 634-4190
Training	
November 5-7	CADD Tools for Environmental Restoration Activities. Vicksburg, MS. POCs: Bobby Carpenter, (601) 634-4572, <i>carpenb@ex1.wes.army.mil</i> , and Terry Pace, (601) 634-4452, <i>pacet@ex1.wes.army.mil</i>
Conferences of Interest	
September 22-25	Third Annual Geographic Technology in Government Conference, EXPO and DataMart. Arlington, VA. POC: GIS World, Inc., Conference Dept., Suite 250, 155 E. Broadwalk Drive, Fort Collins, CO 80525, (970) 223-4848, Fax: (970) 223-5700, <i>event-info@gisworld.com</i>
September 23-25	GovCAD 96. Hyatt Regency Crystal City, Arlington, VA. POC: Sharon Price, GovCAD 96, Suite 2K, 365 Willard Avenue, Newington, CT 06111, 1-800-283-7367, Fax: (860) 666-4782
October 2-4	Trimble Surveying and Mapping Users' Conference and Exposition. San Jose Convention Center, San Jose, CA. POC: Kasha Kirychuk-Ford, Trimble Navigation, 645 North Mary Avenue, Sunnyvale, CA 94086, (408) 481-8465/6089, <i>user_expo@trimble.com</i> , http://www.trimble.com/surv_map/userconf
November 16-22	GIS/LIS '96. Denver Convention Center, Denver, CO. POC: Denise Calvert, GIS/LIS '96, 5410 Grosvenor Lane, Suite 100, Bethesda, MD 20814, (301) 493-0200, Fax: (301) 493-8245



Access and Reload the Center's
WWW Homepage frequently at
<http://mr2.wes.army.mil>

OFFICIAL BUSINESS
CEWES-ID-C

DEPARTMENT OF THE ARMY
WATERWAYS EXPERIMENT STATION, CORPS OF ENGINEERS
3909 HALLS FERRY ROAD
VICKSBURG, MISSISSIPPI 39180-6199

BULK RATE
U.S. POSTAGE PAID
Vicksburg, MS
Permit No. 85