

The 1994 Chief of Engineers

Design and Environmental Awards Program



MESSAGE FROM THE CHIEF

It is an honor to present to you the winners of the 1994 Chief of Engineers Design and Environmental Awards Program.

You will find excellence demonstrated on the pages which follow. Our awards have gone to projects that succeed in portraying the continuing impact of federal design on the quality of American life and reinforcing our quest for design excellence in all our efforts.

Two panels of nationally known design and environmental professionals made selections from 81 entries submitted by Corps offices around the globe. I believe they have chosen work which meets the highest professional standards. The panel members have earned our thanks for giving generously of their time and talent for making the awards program a success.

In presenting our winners to you, my hope is that all designers, both in the Corps and private sector, will find encouragement in this brochure to continue seeking design excellence in all their work

A handwritten signature in black ink that reads "Arthur E. Williams".

ARTHUR E. WILLIAMS
Lieutenant General, USA
Chief of Engineers

BACKGROUND

The program was initiated in 1965 to recognize and promote design excellence. There are no limits on the number or type of projects that can be recognized during each program although specific award categories are established. There are two categories of competition, Military Programs and Civil Works. Within these categories constructed projects may be submitted as well as professional design works that either demonstrate or stimulate design excellence.

This year projects were reviewed by a distinguished jury comprised of three members of the American Institute of Architects, two Fellows of the American Society of Landscape Architects, a member of the American Society of Interior Designers, three Fellows of the American Society of Civil Engineers, and a professor Emeritus at the University of North Carolina.

A limit of one Chief of Engineers Award of Excellence may be given in the Military Programs category and one for an entry in the Civil Works category. This award can only be given by unanimous decision of the jury for a project which excels in all major design disciplines. Honor awards are given to entries that demonstrate or stimulate excellence in multiple design disciplines, Merit awards may be given for projects which relate to individual disciplines.

MILITARY

MERIT AWARDS

Unit Chapel Facility

Fort Lewis, Washington

KC-135, Three Bay Hanger

Malmstrom Air Force Base, Great Falls, Montana

Dental Clinic

Patrick Air Force Base, Florida

Control Tower

Dyess Air Force Base, Texas

MILITARY

HONOR AWARDS

Battle Command Evaluation Facility (Beehive)

Fort Leavenworth, Kansas

New Lyme Superfund Site, Hazardous Waste Cleanup

Ashtabula County, Ohio

Consolidated Maintenance Facility

Toole Army Depot, Utah

Child Care/Religious Education Center

Fort Sam Houston, Texas

CHIEF OF ENGINEERS

AWARD OF EXCELLENCE

Historic Preservation, Hamilton Army Airfield (Posthumously)

Marin County, California

CIVIL WORKS

MERIT AWARDS

Nesting Island Build-Up

Headwaters of Lewis and Clark Lake,
Springfield, South Dakota

Presque Isle Shoreline Erosion Control Project

Lake Erie, Pennsylvania

The Penn Farm Restoration

Cedar Hill State Park, Texas

Cuchillo Negro Dam

Truth or Consequences, New Mexico

CIVIL WORKS

HONOR AWARDS

Kenilworth Marsh Restoration

Anacostia River Maintenance Dredging,
Washington, DC

Bonneville New Navigation Lock

Columbia River, Oregon

Lake Balboa Park and Wildlife Area

Sepulveda Flood Control Basin Recreation Area,
San Fernando Valley,
Los Angeles, California

Sacramento Urban Wildlife Area

Sacramento, California

Boggy Creek Channel Improvement

Austin, Texas

MERIT AWARD

Unit Chapel Facility

Fort Lewis, Washington

Design Firm: U.S. Army Engineer District, Seattle

Design Agent: U.S. Army Engineer District, Seattle

This project reflects a design that has the appearance of a place of worship while avoiding the suggestion of a particular denomination. In an era when facilities are being asked to do more with less space, the multi-purpose and multi-denominational Unit Chapel at Fort Lewis is a very cost conscious design that serves the greatest number of people with a variety of functions.



Juror Comment

“An intelligent application of a standardized design that responds well to site and climate. The nature of the interior is appropriate and dignified, using simple, good quality materials and furnishings. The interplay of, the two pyramid roofs, one solid and one glazed, create a lively building form.”

MERIT AWARD

KC-135, Three Bay Hanger

Malmstrom Air Force Base, Great Falls, Montana

Design Firm: U.S. Army Engineer District, Seattle

Design Agent: U.S. Army Engineer District, Seattle

This innovative 3-Bay Hanger for the Air Force KC-135R aircraft at Malmstrom Air Force Base is the first of its kind to shape the individual hangers to the aircraft and nest them together in such a way that significant efficiencies in construction, operations and site use were realized, along with resulting reduced costs.



Juror Comment

"An ingenious plan leads to an innovative use of space, and a positive impact upon work activities. A long span structural system of small scale components contributes to the light and airy interior. An impressive implementation of building form closely fitting its unique function."



MERIT AWARD

Dental Clinic

Patrick Air Force Base, Florida

Architects: JMGR, Inc./Gee & Jensen

Design Agent: U.S. Army Engineer District, Mobile

This Dental Clinic at Patrick Air Force Base in Florida is prominently located at the new south entry gate and represents the successful translation of a definitive design for a twenty-chair dental clinic into the distinctive character of this Florida coastal Air Force Base. Due to intense solar gain in this region of the country windows and glazing were held to a minimum. Clerestory glazing was used to introduce natural lighting into the public waiting areas.



Juror Comment

“An interior design which reassures its visitors by creating a calming environment. The color palette especially contribute\ to this quality. Lighting both natural daylight from the extensive clerestory system and the wall cove fixtures - gives the interior a special warmth. Furnishings - individual chairs and informal groupings in the public reception areas and the technical equipment in the work areas are well thought out and implemented.”

MERIT AWARD

Control Tower

Dyess Air Force Base, Texas

Architect: Page Southerland Page

Design Agent: U.S. Army
Engineer District, Fort Worth

The Control Tower at Dyess Air Force Base, Texas, because of its height, makes it the most prominent and unique facility on Dyess AFB, while its flowing exterior geometry serves as an attractive beacon from both near and remote perspectives; and its security and energy features make it practical, safe and efficient air traffic control tower.



Juror Comment

"A strong sculptural form creating an interesting shadow pattern that results in a well designed beacon for the stark landscape of an airstrip. An innovative air handling system pressurizes the towers stairway and fresh air supply to the elevator cabs in the event of a fire. Earth tones confirm the towers relationship to its surrounding landscape."



HONOR AWARD

Battle Command Evaluation Facility (Beehive)

Fort Leavenworth, Kansas

Architects: Hellmuth, Obata & Kassabaum, Inc.

Design Agent: U.S. Army Engineer District, Kansas City

The renovation and conversion of this facility to a modern computer simulator facility preserves the design integrity of old Fort Leavenworth, Kansas while serving the present day needs of the Army. The conversion required total renovation including structural upgrading to withstand a moderate seismic event, and the preservation of the historic exterior of the Beehive.



Juror Comment

“An excellent example of sensitive and appropriate restoration and adaptive re-use of a building in continuous use from 1882 for a barracks, then housing and now a computer facility. Subdued and appropriate landscape treatment enhances the restoration.”

HONOR AWARD

New Lyme Superfund Site, Hazardous Waste Cleanup

Ashtabula County, Ohio

Architect/Engineer: Donohue and Associates, Inc.

Design Agent: U.S. Army Engineer District, Omaha

This Hazardous Waste Cleanup project illustrates how implementation of innovative environmental protection concepts can transform a hazardous waste site into a useful wildlife refuge and successful remediation effort. The site consists of a former 40 acre municipal and industrial waste landfill



Juror Comment

“Serves an environmental need through on-site leachate treatment dispensing with the need for off-site disposal. The borrow area becomes a wildlife habitat and the landscape reverts to a positive natural cycle.”



HONOR AWARD

Consolidated Maintenance Facility

Toole Army Depot, Utah

Architect: Gillies Stransky Brems Smith Architects

Design Agency: U.S. Army Engineer District, Sacramento

This facility at Toole Army Depot, Utah represents a new attitude and direction for the U.S. Army. One of lowering the cost of performing its mission and at the same time improving performance without negatively impacting the environment. The plant manager calls this project an overwhelming success because of the suitability and effectiveness of the design.



Juror Comment

"A straight forward industrial solution, well detailed, with good use of materials that creates a well lit interior work environment with good protection from sun glare and a sense of human scale."

HONOR AWARD

Child Care/Religious Education Center

Fort Hood, Texas

Architect: Marmon Mok

Design Agency: U.S. Army Engineer District, Fort Worth

This facility at Fort Sam Houston, San Antonio, Texas responds appropriately to the unique user requirements for a safe, caring environment for children and successfully enhances the immediate environment by melding Contemporary design motifs with the scale, proportions, and materials of the traditional Spanish-style architecture of the adjacent historic housing area. The plan is developed upon eleven modules each serving as home base for the age group served. The modules are color coded and organized on either side of a central corridor.



Juror Comment

“The implementation of a prototypical design standard in a configuration that responds to the local community through a good sense of scale. A playful and colorful character is highly appropriate and the multiple use are well integrated.”

AWARD OF EXCELLENCE

Historic Preservation, Hamilton Army Airfield (Posthumously)

Marin County, California

Design Firm: Jones & Stokes, and PAR Environmental Services, Inc.

Design Agency: U.S. Army Engineer District, Sacramento

This project in Marin County, California, built during the great depression, is slated for closure, immediate demolition, and development, therefore swift action was necessary to establish parts of the base as a National Register Historic District and to preserve Hamilton's history. The project satisfies the requirements of the Base Closure and Realignment Act and also enhances the Army's dedication to recording for future generations these important historical landmarks before they are lost to development.





Juror Comment

"Built during the great depression, Hamilton Army Airfield owes its origination to the foresight of the citizens of Marin County who taxed themselves to purchase the site and the vision of Captain Howard B. Nurse the creative quartermaster who oversaw its design and construction. It served our country well through three wars and also performed valuable peacetime missions.

The wide variety of buildings, ranging from residential structures to vast hangers and maintenance facilities, are sensitively designed and well integrated into a fine varied landscape. Over time the landscape matured with the buildings to form a seamless historic environment.

Hamilton Army Airfield became a fine collection of Spanish eclectic style architecture set in a mature, well maintained landscape of equally significant historic plant material. Therefore, it seemed to the jury that from its initial creation and throughout its active useful life, Hamilton Army Airfield has been the epitome of the criteria that are the standards set by the Chief of Engineers Design and Environmental Awards Program, -purpose, leadership, cost, aesthetics, performance, and partnering.

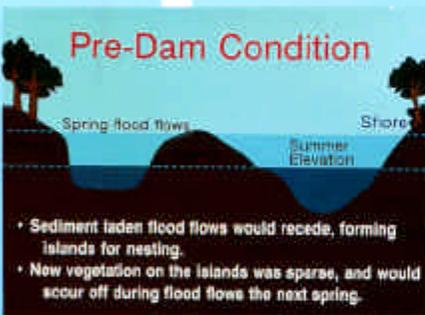
At this critical point in the history of Hamilton Army Airfield the jury recommends that it be the recipient of the Chief of Engineers Award of Excellence - to be awarded posthumously as an acknowledgement of our debt and an expression of our hope that its fate of demolition is not finally sealed."

MERIT AWARD

Nesting Island Build-Up

Headwaters of Lewis and Clark Lake,
Springfield, South Dakota
Design Firm: U.S. Army
Engineer District, Omaha
Design Agency: U.S. Army
Engineer District, Omaha

Since the construction of Gavins Point Dam in 1964, conditions have altered the previous process which resulted in the creation of low, barren islands in the river. The river water now has a lighter sediment load and suitable habitat for nesting of certain endangered species only occurs on low elevation sandbar islands that are highly susceptible to flooding from tributary inflow caused by rainfall. The solution was to build up existing low elevation unvegetated sandbars using bulldozers and front end loaders, and to remove vegetation on high islands. The islands were armored at the upstream ends and sides near navigation channels with standard burlap sand bags or with Shoreline Erosion Arrestor (SEA) bags.



Juror Comment

“A clearly defined environmental problem relating to the preservation of nesting habitats of two endangered bird species was successfully resolved with a simple, low budget and low technological solution.”

MERIT AWARD

Presque Isle Shoreline Erosion Control Project

Lake Erie, Pennsylvania

Design Firm: U.S. Army Engineer District, Buffalo

Design Agency: U.S. Army Engineer District, Buffalo

Located on the south shore of Lake Erie, the peninsula is a compound recurved sand spit which extends 6.25 miles from the mainland. To protect the shoreline of the peninsula, a series of 58 offshore segmented breakwaters was proposed. Very limited design guidance for segmented breakwaters was available during the planning stages. Two and three dimensional model studies were conducted to aid in design. The breakwaters were generally positioned 250-350 feet from the shoreline. The project functions by reducing incident wave energy that reaches the shore thereby reducing sand losses and hence erosion

Juror Comment

"This design for segmented breakwaters used models and prototypes to test the effectiveness of this little known method for reducing shoreline erosion before the project was constructed. The success of this project will serve as a benchmark for the evolution and development of this type of breakwater in the future."



MERIT AWARD

The Penn Farm Restoration
Cedar Hill State Park, Texas
Design Firm: U.S. Army
Engineer District, Fort Worth
Design Agency: U.S. Army
Engineer District, Fort Worth

Located in the area impacted by the construction of Joe Pool Lake (a flood control project), the restoration of Penn Farm was important due to the historical significance of the farm and buildings dating from the 1850s. Reuse from material from old buildings selected for demolition allowed the repair and reconstruction of remaining buildings to be historically accurate in appearance.



Juror Comment

"This restoration of a nineteenth century farm in Texas is the result of interagency partnering along with regional educational institutions to produce a unique historical and educational resource. The recycling of material from adjacent historic farms on the site of the super collider was an innovative and cost effective approach to providing compatibly matched weathered boards for severely damaged portions of this restoration."

MERIT AWARD

Cuchillo Negro Dam

Truth or Consequences, New Mexico

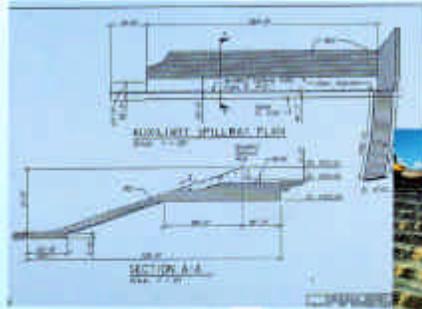
Design Firm: Boyle Engineering Corporation

Design Agency: U.S. Army Engineer District, Albuquerque

This dam was constructed to prevent flooding of the city from the normally dry Cuchillo Negro Creek. The outlet works had to be designed such that downstream channel capacity was not exceeded, yet it was required that the reservoir be emptied in 96 hours so as not to affect downstream water rights. Precast concrete sections for the intake tower and the use of roller compacted concrete for the dam and auxiliary spillway allowed efficient and timely completion of the project.

Juror Comment

“This project was instrumental in establishing the fundamental guidelines for non-Federal cost sharing under the Water Development Resources Act of 1986. The design makes effective use of both precast and roller compacted concrete. The design criteria for stream flow and flood control was met without regulatory features such as gates, in cooperation with local sponsor’s request.”



HONOR AWARD

Kenilworth Marsh Restoration, Anacostia River Maintenance Dredging

Washington, DC

Design Firm: Biohabitats, Inc.

Design Agency: U.S. Army
Engineer District, Baltimore

The project provides for a navigation and flood control channel 8 feet deep, 80 feet wide for about 5.4 miles. About 150,000 cubic yards of silt and sand needed to be dredged to restore the project dimensions. It was a challenge finding environmentally acceptable placement sites for the dredged material within a highly urbanized setting. Kenilworth Marsh is the last remaining freshwater tidal marsh system within the District of Columbia. Bottom elevations in the marsh are too deep at high tide to support emergent aquatic plants. The controlled placement of dredged material was used to create over 30 acres of tidal wetlands.



Juror Comment

“This was an impressive, multi-agency effort that resulted in a successful cost effective tidal wetland restoration project. The design team responded to a complex array of environmental issues. The team also demonstrated a sensitivity to requirements of specific biotic communities.”

HONOR AWARD

Bonneville New Navigation Lock

Columbia River, Oregon

Design Firm: U.S. Army Engineer District, Portland

Inca Engineering, Inc.

Alpha Engineering Group, Inc.

Design Agency: U.S. Army Engineer District, Portland

Bonneville Lock and Dam Project is located on the Columbia River 40 miles east of Portland, Oregon. The original project, consisting of a spillway dam, powerhouse and navigation lock, was completed in 1937. Between 1986 and 1993, the Corps designed and oversaw construction of a new navigation lock needed to relieve the bottleneck to commercial river traffic caused by the original lock, which was undersized by current standards. The new lock accepts a standard five-barge tow, decreasing lockage time from nearly eight hours to about 30 minutes. A swing bridge located at the downstream end of the new lock, allows access to the rest of the project. It was necessary to relocate an entire field of water wells used by the nearby state run fish hatchery.

Juror Comment

“Well thought out solution involving strong partnering efforts and project management techniques to accomplish the objective: relieve a serious river traffic bottleneck. The environmental challenges and unordinary site conditions were handled with sensitivity. The exposed concrete structural elements were well detailed, attractive and consistent with the historic significance of the area. To be \$3.6 million under budget for a project of this complexity is a real compliment to the team’s value engineering awareness.”



HONOR AWARD

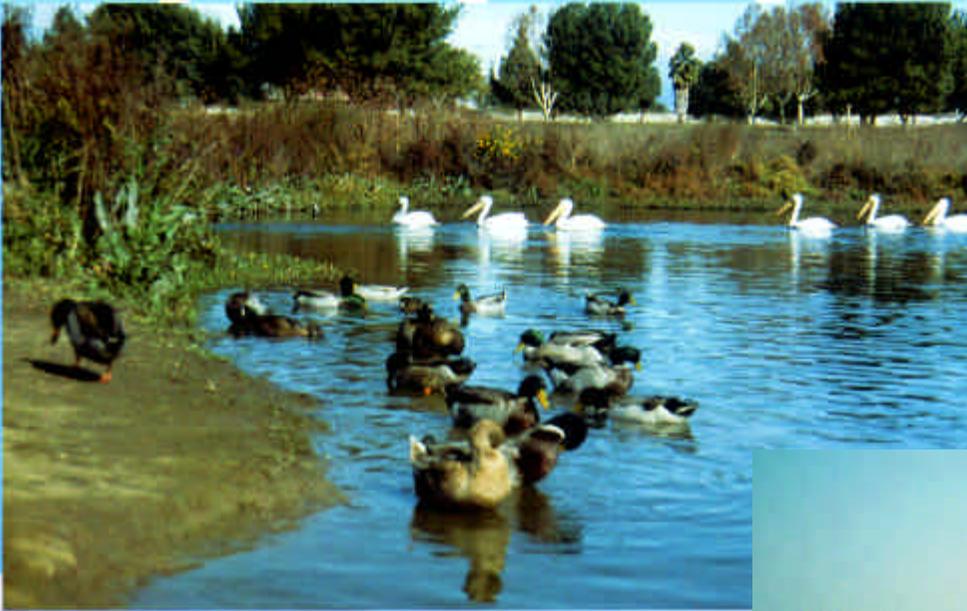
Lake Balboa Park and Wildlife Area

Sepulveda Flood Control Basin Recreation Area, San Fernando Valley, Los Angeles, California

Design Firm: U.S. Army Engineer District, Los Angeles

Design Agency: U.S. Army Engineer District, Los Angeles

Sepulveda Dam and Reservoir is part of the comprehensive plan for flood control in the Los Angeles County drainage area. In the 2,097 acre dry land reservoir, 1500 acres are used for recreation. Lake Balboa Park was constructed on 160 acres and includes a 26-acre lake, picnicking, jogging, and other amenities. The 68-acre wildlife area was designed and constructed as mitigation for the Balboa Park project. It includes an 11 -acre pond, 15-acre riparian area, 8-acre oak woodland, and 26-acre native grassland and coastal sage scrub area.



Juror Comment

“The Sepulveda Basin Master Plan for flood control is an excellent model of a project that involved a wide range of professional disciplines and partnership among diverse local, state, and Federal agencies in its very successful completion. The wildlife area is a vital link in the migratory waterfowl Pacific Flyway. The recreational areas provide boating, fly-fishing, bird watching, walking and jogging trails, and picnicking and play areas meeting the pressing needs of a highly urbanized part of Los Angeles. Particularly innovative is the use of reclaimed water, produced on the site, for maintaining water levels in the basin during the extensive dry periods characteristic of the region.”



HONOR AWARD

Sacramento Urban Wildlife Area

Sacramento, California
Design Firm: U.S. Army
Engineer District, Sacramento
Design Agency: U.S. Army
Engineer District, Sacramento

This is a project to mitigate for the loss of habitat from a flood control project. It provides 123 acres of habitat consisting of open water, emergent marsh and riparian/upland terrestrial habitat, through the creation of an oxbow lake, recreating historical landforms that occur along this reach of the Sacramento River.



Juror Comment

“This project demonstrates a very sensitive understanding of natural systems. Project objectives of creating a diverse environment with a complex series of interfaces between habitats were achieved through the re-construction of a historic oxbow lake landscape and the interface with an adjacent private wetland mitigation project.”

HONOR AWARD

Boggy Creek Channel Improvement

Austin, Texas

Design Firm: Albert H. Halff Associates, Inc.

Design Agency: U.S. Army Engineer District, Fort Worth

This project involved the channel improvements in a highly developed section of the city. A solution to local flooding, which maintained and enhanced the environmental and recreational features of the area, was needed. Tree wells and retaining walls were carefully designed to support the channel slopes and preserve existing trees and the residents' backyards. A 54-acre environmental quality/mitigation area was set aside as a reserve, and is maintained in its natural condition with the exception of a nature trail.

Juror Comment

“The innovative and cost effective solution to the flood control problem in the congested urban area is both aesthetically pleasing and environmentally sensitive. The project is a model for cooperation and coordination with local citizen’s groups and political entities to ensure user satisfaction. The design preserved and protected the residential, commercial and recreational uses on the adjacent property.”



JURORS

Mr. John Belle, AIA, RIBA.

Mr. Belle, a founding partner for Beyer Blinder Belle Architects and planners, has established the firm's design direction on numerous historic preservation projects including the restoration of the Ellis Island National Museum of Immigration; the restoration of Grand Central Terminal and the restoration of the Cathedral of the Madeleine, Salt Lake City, Utah. Mr. Belle is the former president of the New York City Landmarks Conservancy and has won numerous design awards including the Presidential Design Award for Ellis Island and the Delaware Aqueduct.

Mr. Donald Ferlow, FASLA.

Mr. Ferlow is the Director of Environmental Science and an Associate with the firm of Sterns & Wheeler. His primary responsibility involves identification of wetlands, wetlands functional analysis, ecosystem sensitive site planning, preparation of Environmental Impact Statements, and the creation of wetlands as mitigation for site development impacts and as systems for wastewater and stormwater renovation. Mr. Ferlow teaches and lectures about wetlands systems, conservation and general natural systems topics. Recent presentations have been made for student classes at SUNY ESF; the Federated Garden Clubs of America, Annual Landscape Design Course, Syracuse University, L.C. Smith College of Engineering Seminar Series; and the New York Botanical Garden, Institute of Ecosystem Studies. Mr. Ferlow has presented technical papers at

numerous regional and national conferences and seminars.

Mr. Bob Frasca, AIA. Mr. Frasca received his Bachelor of Science degree from the University of Michigan, a Masters of City Planning at the Massachusetts Institute of Technology. He is a registered architect in Oregon, Washington, California, New York, Utah, Arizona, and Colorado. Mr. Frasca is the partner-in-charge-of-design for the firm of Zimmer, Gunsul, Frasca Partnership. He joined the firm in 1959 and has been responsible for a range of building types, many of which have been recognized for design excellence. Mr. Frasca is a member of the National AIA Committee on Design, the University of Washington Design Commission and has been a visiting critic in design at major universities across the country. He has, and continues to serve on a variety of national design award juries, as well as numerous AIA chapters around the United States.

Ms. Sue Bowers, ASID. Ms. Bowers is an associate of Hunter Miller Associates. She received a Bachelor of Fine Arts degree in Environmental Design from the California College of Arts and Crafts, a Masters of Arts in Administration from San Francisco State University, and other prestigious degrees from many other major universities. Ms. Bowers has been involved in many outstanding projects in both the private and government sectors. Ms. Bowers is a member of the American Society of Interior

Designers and numerous other professional organizations and is listed in Who's Who in the Southeast and Who's Who in Interior Design.

Mr. Monte L. Phillips, P.E.,

FASCE. Mr. Phillips is President-Elect of the National Society of Professional Engineers. He has been an engineering educator for over thirty years serving on the faculty of the University of Illinois, Ohio Northern University, and the University of North Dakota where he is currently Professor of Civil Engineering. A dedicated member of NSPE, he has served two terms as Vice President of the North Central Region. He has chaired or served on numerous NSPE committees. In addition to his NSPE activities, Mr. Phillips is a fellow of the American Society of Civil Engineers and past president of the North Dakota Society of Professional Engineers. He holds a PHD from the University of Illinois, and a BS and MS degree in civil engineering from the University of North Dakota. During the past 23 years one-quarter of his time has been devoted to private practice.

JURORS

Mr. Anthony M. Bauer,

Mr. Bauer is an Associate Professor in the Landscape Architecture Program at Michigan State University. He received his Bachelor degree at Utah State University and his Masters at the University of Illinois. Mr. Bauer has taught at the University of Guelph, in Canada and at Michigan State University from 1980 to date. He has provided consulting services to many professional landscape architectural, planning and engineering firms. In addition Mr. Bauer has prepared master plans for state parks, studies and plans for city and county park sites, has written a number of articles and presented numerous talks on mine reclamation. Mr. Bauer is a member of the American Society of Landscape Architects, Surface Mine Reclamationists, and the Society of Mining Engineers.

Mr. Ralph Johnson, AIA. Mr. Johnson is a registered architect in Illinois and the Executive Vice President of Perkins and Will in Chicago. Mr. Johnson received his Bachelor of Architecture from the University of Illinois in 1971 and Master of Architectural Design from Harvard University Graduate School of Design in 1973. He is an adjunct professor at the University of Illinois and a visiting critic at the University of Wisconsin. Mr. Johnson has been a lecturer at many leading universities and a juror on a number of prestigious architectural awards programs. Mr. Johnson has won many awards for design competi-

ten extensively for numerous outstanding publications

Dr. Daniel A. Okun. Dr. Okun is Kenan Professor of Environmental Engineering, Emeritus, at the University of North Carolina at Chapel Hill, where he has been since 1952. He has served as head of the Department of Environmental Sciences and Engineering for 18 years. He has been a consultant engineer on a part-time or full-time basis continuously since completing his doctorate at Harvard in 1948. He is currently chair of the Water Science and Technology Board of the National Research Council. His work has been directed at urban and industrial water supply and pollution control in the U.S. and abroad. He is the author, co-author or editor of twelve books and more than 150 papers. He is a member of the National Academy of Engineering.

Mr. Stafford E. Thornton, P.E., FASCE. Mr. Thornton is the President Elect of The American Society of Civil Engineers and the Director of the Technical Assistance Center and professor of engineering at West Virginia Institute of Technology in Montgomery, West Virginia. He earned a Bachelor and Masters degrees of Civil Engineering. Mr. Thornton was appointed for two five year terms as a member of the West Virginia Board of Registrations for professional engineers, serving as secretary of the board for his entire tenure. He is presently an ASCE appointed member of the United Engineering Center,

the Engineering Societies Library, and the Engineering Foundation. Mr. Thornton has also held the position of City Engineer for Montgomery since 1972 as well as serving on the sanitary board.

Mr. Richard G. Weingardt, P.E., FASCE. Mr. Weingardt is the president of Richard Weingardt Consultants, Inc. Denver, Colorado. He received his BS in civil engineering and his MS in structural engineering from the University of Colorado. Mr. Weingardt is currently president-elect of the American Consulting Engineers Council and past president of the Consulting Engineers Council of Colorado. He has served on numerous state and university boards and has been a guest lecturer. Mr. Weingardt has numerous awards for his outstanding service to the profession including the Alfred J. Ryan Awards from the Professional Engineering of Colorado (NSPE) and the Washington Award, Consulting Engineers Council of Colorado. He has authored three books and over 200 articles and speeches on creativity, leadership and business and engineering.



Military Program Jury Members

Left to Right:

Mr. Donald Ferlow

Mr. Bob Frasca

Ms. Sue Bowers

Mr. Monte L. Phillips

Mr. John Belle



Civil Works Jury Members

Left to Right:

Mr. Anthony M. Bauer

Dr. Daniel A. Okun

Mr. Richard G. Weingardt

Mr. Stafford E. Thornton

Mr. Ralph Johnson

Program Co-Chairmen

Allen M. Carton

Deputy Director
Directorate of Military Programs

Jimmy F. Bates

Deputy Director
Directorate of Civil Works

Program Coordinators

Civil Works:

Phillip M. Brown

Chief, Eastern Section
Engineering Division

Mike Smith

Eastern Section
Engineering Division

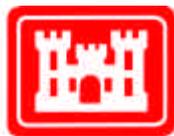
Military Programs

Thomas A. Kenney

Chief, Building and Site Planning
Engineering Division

Murray Geyer

Building and Site Planning
Engineering Division



The 1994 Chief of Engineers

Design and Environmental Awards