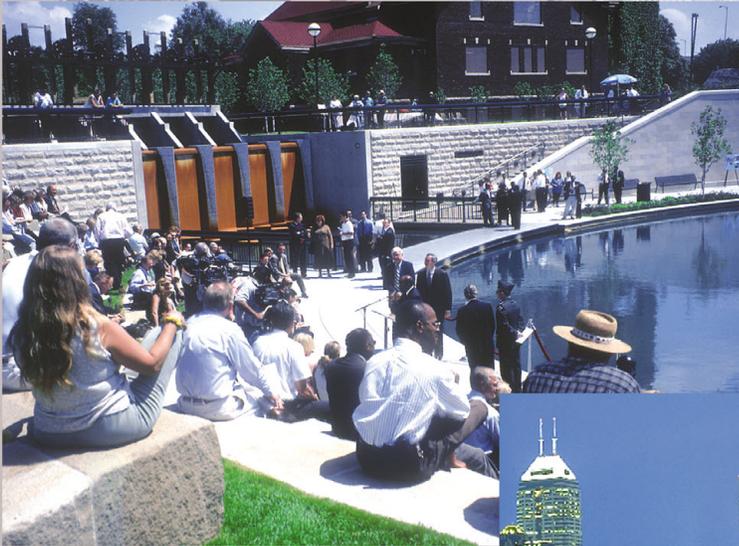
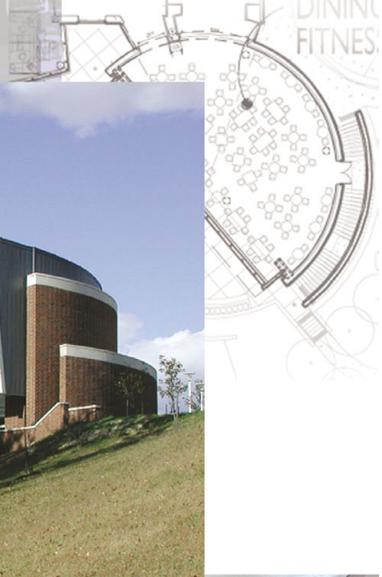


2002

Chief of Engineers Design & Environmental Awards Program

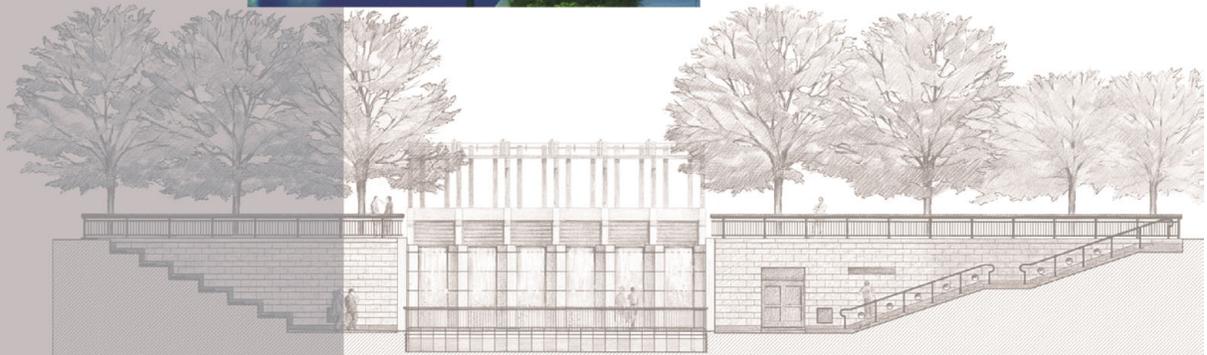


Excellence

Special Recognition

Honor

Merit



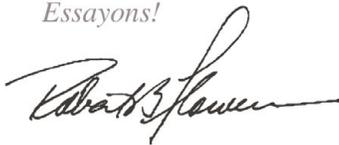
Message from the Chief.....

I congratulate the winners of this year's Chief of Engineers Design and Environmental Awards Program for their innovation and pursuit of excellence. Their world-class designs are indicative of the contributions that make our Nation great and will further enhance our support to the Nation and its armed forces.

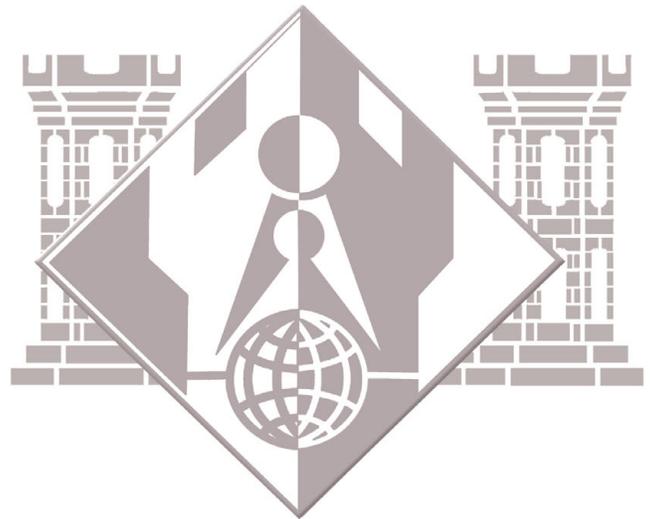
The Chief of Engineers Design and Environmental Awards Program recognizes the design excellence of projects accomplished by U.S. Army Corps of Engineers (USACE) team members working in partnership with the private sector design and construction community. Two juries composed of nationally recognized design and environmental professionals selected eleven projects for awards from the thirty-six entries submitted by USACE activities. This is a rigorous review and indicates the high standard of work produced by every team who entered.

The winning projects, shown in this brochure, demonstrate the diversity of skills USACE offers its customers while achieving the highest professional standards. I appreciate the jury members who gave enthusiastically of their time and expertise to make this program a success. Finally, I wish to extend my thanks to everyone who participated this year and look forward to another tough competition next year - keep up the great work.

Essayons!



ROBERT W. FLOWERS
*Lieutenant General, USA
Chief of Engineers*



Program History

The Chief of Engineers Design and Environmental Awards Program was created in 1965 to recognize and promote excellence in design and environmental achievement by USACE and its professional partners. The program has presented a total of 460 awards in the 27 times it was judged.

*This year the program was judged in two categories, **Design and Environmental Design**. Constructed projects and professional works may be submitted in either category. Two interdisciplinary juries selected a total of 11 projects for awards. The juries met on February 27-28, 2002, at USACE headquarters in Washington, DC.*

The program presents four types of awards:

***The Chief of Engineers Award of Excellence** is the highest. Only one award may be given for an entry in each of the two categories. This award can be given only by unanimous decision of the jury for an entry that truly exhibits excellence in all major professional design disciplines. The jury is not obligated to nominate any entry for this award; however, this year the juries gave the award in both categories.*

***Chief of Engineers Special Recognition Awards** may be awarded by the juries for projects that demonstrate excellence in a particular field and do not clearly fit into the award categories below. Juries may select a project and/or a professional work for special recognition in a field of study such as environmental preservation. Special recognition awards are new in the 2002 program.*

***Honor Awards** are given in both categories to entries that demonstrate or stimulate excellence in each of the design disciplines. The juries determine the number of awards. An honor award can be given only to an entry based on a majority decision of the jury, with no juror casting a dissenting vote.*

***Merit Awards** are also given for projects in both categories. Merit awards may be related to individual disciplines (e.g., a merit award in architecture, landscape architecture, interior design, engineering, environmental design, planning, energy conservation) or for excellence in multiple disciplines. The juries determine the number and type of merit awards. A merit award can be given to an entry based on the recommendation of a single juror if no jurors offer dissenting votes.*



HISTORY

Chief of Engineers Award of Excellence



■ *National Ground Intelligence Center*
Charlottesville, Virginia

Chief of Engineers Special Recognition Award



■ *Zussman Mounted Urban Combat Training Site*
Fort Knox, Kentucky

Merit Awards



■ *Guest House, Fort Buchanan*
Bayamon, Puerto Rico



*National Ground Intelligence Center
Charlottesville, Virginia*

*Design Agency: U.S. Army Engineer District, Norfolk
Design Firm: RTKL Associates, Baltimore, Maryland*

Chief of Engineers **Award of Excellence**





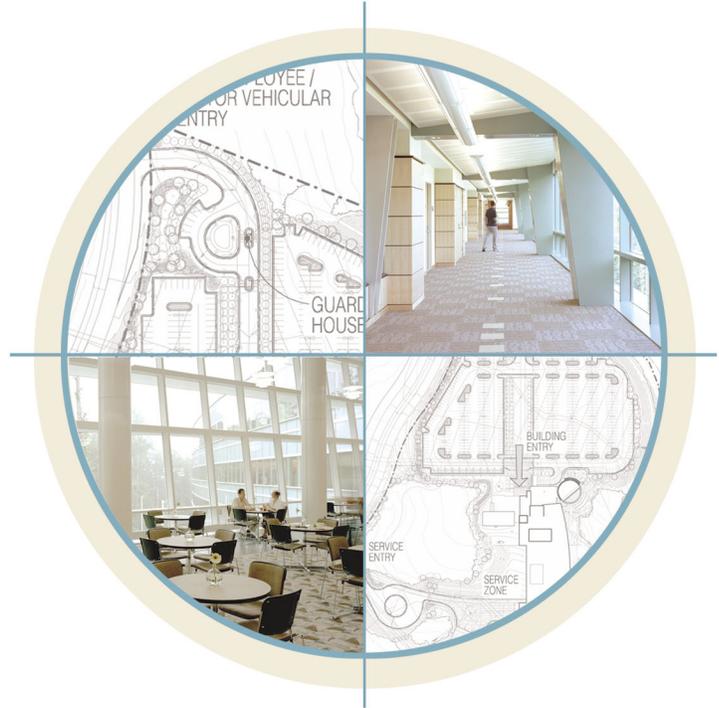
The National Ground Intelligence Center (NGIC) is a major subordinate command of the U.S. Army Intelligence and Security Command that produces scientific and technical intelligence. The Nicholson Building houses more than 750 NGIC employees in 287,000 square feet. These employees were previously housed in four different locations.

Fifty percent of the area is allotted to offices, and the rest is divided between special spaces and public areas. Special spaces include laboratories, automated data processing, Information Resource Center, and teleconferencing.

The plan organized the space to segregate secure and non-secure functions. Clearly defined zones for open plan, enclosed office, and special spaces optimized flexibility and efficiency. This clear interior organization resulted in easy circulation of people throughout the building and facilitated interaction between the analysts.

The project was awarded for \$41.03 million and completed on time and under budget.

From site planning to the smallest detail, the design concept holds true. This building creates a work environment that will leverage productivity and facilitate retention of a professional and innovative staff. This project illustrates excellent indirect lighting design. Designers have taken a complex site and minimized earth moving and site disturbance to integrate the outdoors with the interior environment. The color pallet creates movement within the facility without overpowering the design integration with the outdoor environment. The narrative documents significant increases in productivity, and meets the design objective of being a world-class facility.



*Zussman Mounted Urban
Combat Training Site
Fort Knox, Kentucky*

*Design Agency:
U.S. Army Engineer District, Louisville*

*Design Firm:
Polyengineering, Inc., Dothan, Alabama*

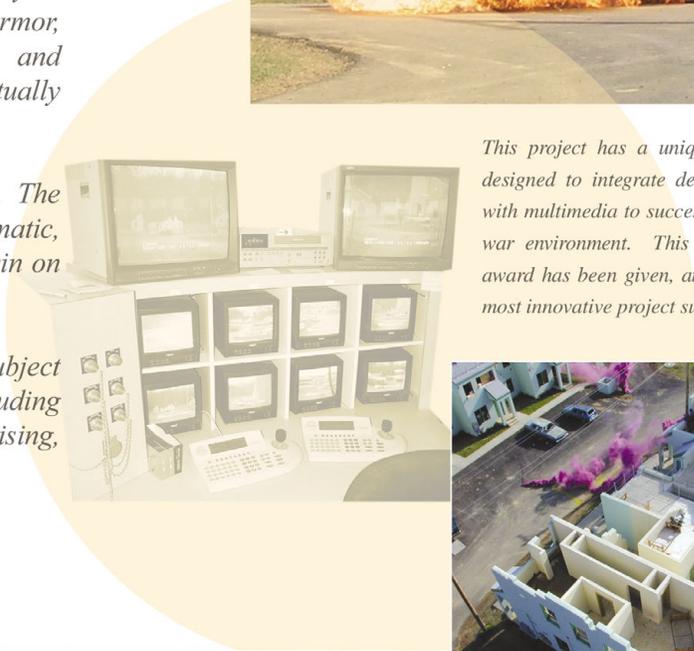
The goal was to break the molds for Urban Combat Training Center construction. The mock city had to be large enough to host a company or battalion task force with helicopters, armor, infantry, and Bradley Fighting Vehicles, and versatile enough to pose as a town virtually anywhere in the world.

Zussman is sited on 26 acres at Fort Knox. The \$13 million project gives soldiers the dramatic, hands-on experience needed to fight and win on an urban battlefield.

Hollywood special effects are used to subject troops to the stress of urban conflict, including sound effects simulating riot, fire, uprising, screams, and voices in various languages.



This project has a unique program. It was designed to integrate design and architecture with multimedia to successfully emulate a real-war environment. This is the first year this award has been given, and this was by far the most innovative project submitted.



*Guest House, Fort Buchanan
Bayamon, Puerto Rico*

*Design Agency:
U.S. Army Engineer District, Jacksonville*

*Design Firm:
Wolfberg/Alvarez & Partners, Miami, Florida
Edward J. Cass & Associates, San Diego, California*

The project required design and construction of a 75-room lodging facility including 45 efficiency units with kitchenettes and 30 standard units.

The facility had to accommodate families for up to three months, as well as provide short-term accommodations. In addition, the facility had to accommodate those who were required to work at night and rest during the day.

Psychological and physical privacy became a primary design issue, and the design process resulted in a campus concept. Three clusters of three buildings each were placed away from the main building, a traditional hotel structure. The parking was separated from the buildings throughout the site to allow for additional privacy and created the opportunity for the tropical landscaping to play a major role in the final design.



The presence of the building on the site expresses its regionality. The landscape is integrated with the architecture. It creates an image of hospitality consistent with the private sector. Designers took what would have otherwise been an institutional project and created a welcoming environment. The handling of parking demonstrates sustainable site design. The lighting, while subtle, provides a feeling of security and reinforces the building design and landscape design.

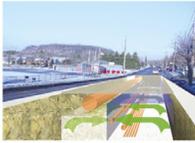


Chief of Engineers Award of Excellence



- *Indianapolis Waterfront Upper Canal Revitalization*
Indianapolis, Indiana

Chief of Engineers Special Recognition Award



- *Transguch Remediation System*
(Environmental Remediation)
Hazleton, Pennsylvania



- *Biological Field Truthing at Winklepeck*
(Environmental Preservation)
Burning Ground, Ravenna, Ohio

Honor Awards



- *Seven Oaks Dam*
Highland, California



- *Owasco Outlet East & West Pier Rehabilitation*
Auburn, New York



- *Dry Bayou/Thompson Bend*
Scott & Mississippi Counties, Missouri

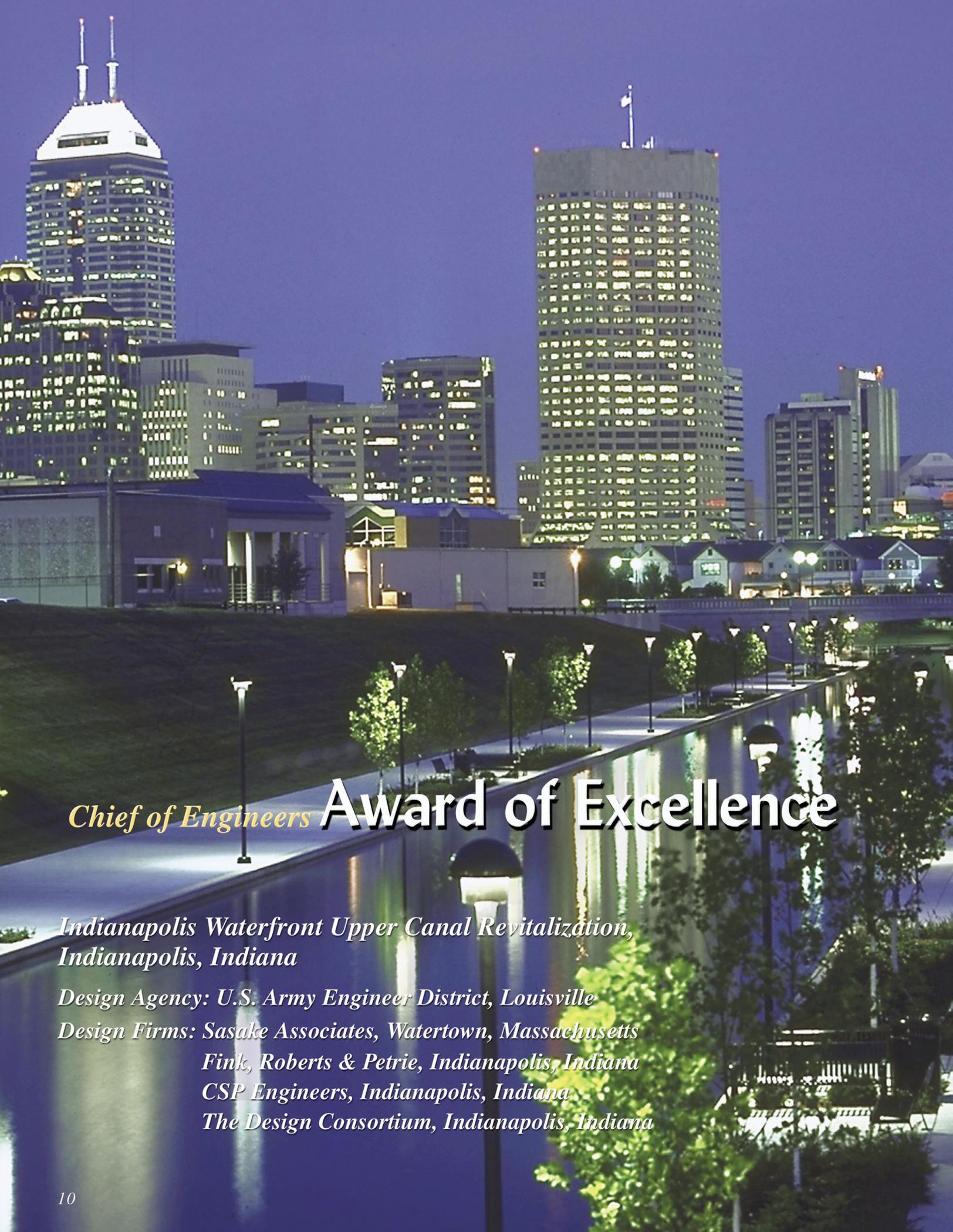
Merit Awards



- *Devils Lake Levees*
Devils Lake, North Dakota



- *Devonian Fossil Gorge Visitor Facility*
Johnson County, Iowa

A nighttime photograph of the Indianapolis skyline. In the foreground, a canal reflects the city lights. A walkway with trees and streetlights runs along the canal. In the background, several skyscrapers are illuminated, including the prominent Bankers Building on the left.

Chief of Engineers **Award of Excellence**

*Indianapolis Waterfront Upper Canal Revitalization,
Indianapolis, Indiana*

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

Design Firms: Sasaki Associates, Watertown, Massachusetts

Fink, Roberts & Petrie, Indianapolis, Indiana

CSP Engineers, Indianapolis, Indiana

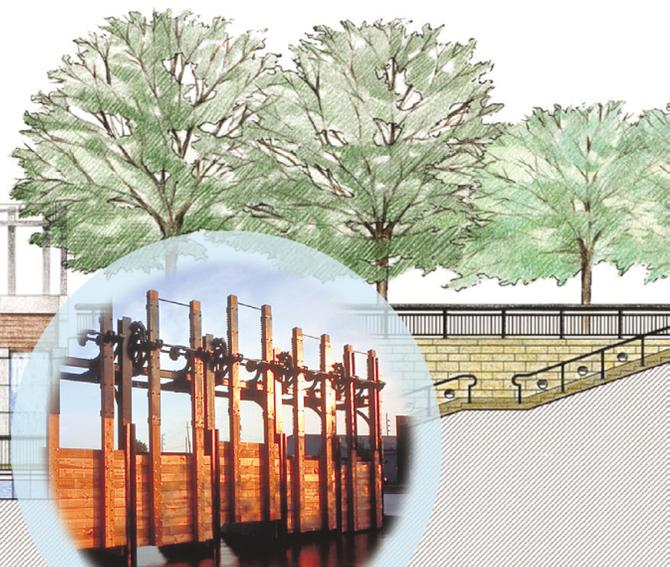
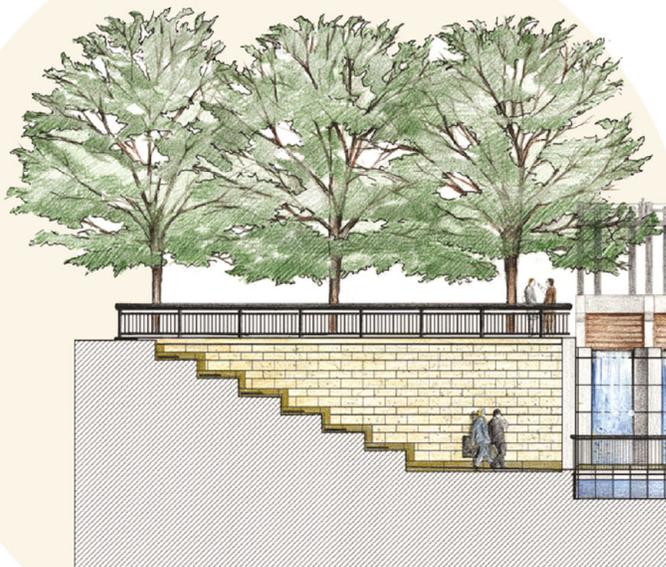
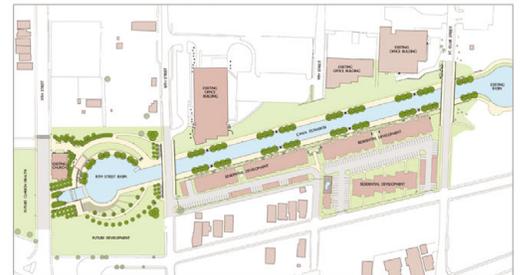
The Design Consortium, Indianapolis, Indiana

The goal of this project was to open up the underutilized urban land in run-down neighborhoods and along the historic old canal for development and civic use. Employing a practical design approach, sensible scale, creative thinking, and a sustainable philosophy, a wonderful civic open space was created. The new canal has encouraged development along its banks and meets community recreation needs for generations to come.

The semi-round basin is accented by walkways, walls, lighting, and plantings, creating an appropriate civic space for multi-purpose use. The basin's edges accommodate boat launch and landing. Fifteen-foot-wide walkways along both sides of the canal create a special urban setting to accommodate the recreational needs of the neighborhoods. Joggers, strollers, and others use the new open space during the day. On weekends, various events enrich the cosmopolitan lifestyle of Indianapolis.



This project has transformed a depressed urban area into a focused area for recreation and community. It combines an aesthetic and elegantly simple solution for a both public and private experience. This project balances historic preservation with urban revitalization goals. The public truly enjoys this project.



*Transguch Remediation System
Hazleton, Pennsylvania*

*Design Agency:
U.S. Army Engineer District, Philadelphia*

*Design Firm:
Tetra Tech NUS, King of Prussia, Pennsylvania*

Leaking underground storage tanks allowed gasoline to enter the groundwater. Benzene vapor (a carcinogen) was found in more than 100 homes in the neighborhood. Residents were diagnosed with cancer attributable to benzene exposure. This site became the top priority for the Environmental Protection Agency (EPA) Region III.

The heart of the system is the trench and gravel bed containing the sewer and remedial system piping. The gravel bed under a busy street is both the bedding material for the sewer and collection pipes and the porous media that allows collection of soil vapors and groundwater from the area. The gravel bed is overlaid by an impermeable plastic liner that prevents escape of gasoline vapors and prevents clean air from entering the collection pipes. The original clay tile sewer pipes were replaced with impermeable plastic pipe. The design used three separate systems (sewer, groundwater collection, and soil vapor extraction) that all operate in one trench. Final cost was \$5 million.



This project is an excellent and innovative solution to a difficult environmental problem. It is a truly collaborative effort that demonstrates the synergy that can be developed between the government and private companies.

*Biological Field Truthing
at Winklepeck Burning Ground
Ravenna, Ohio*

*Design Agency:
U.S. Army Engineer District, Louisville*

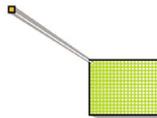
*Design Firm:
Science Applications International Corporation
Oak Ridge, Tennessee*

For more than 20 years, environmental decision-making at remediation sites has been hampered by the lack of a method to validate or refute mathematically predicted hazards. This pioneering biological field-truthing method provides a long-needed solution. The method compares the health of two ecological receptors (vegetation and small mammals) at the most contaminated burning pads with those at matched reference sites.

The study at this site, costing \$594,000 (about 30 percent of what a full field assessment would have cost), has the potential for cost-avoiding millions of dollars in future ecological risk studies. The efficient, inexpensive, and technically sound field method has the potential to save \$6 million at this site, and may become the standard for problem resolution elsewhere.



This project has the potential to be a groundbreaking advancement in the methodology of biological assessment. This pilot project has potential for broad application.



*Seven Oaks Dam
Highland, California*

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

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

Seven Oaks Dam is part of the \$1.4 billion Santa Ana River Mainstem Flood Control Project. The project has removed the most massive flooding problem west of the Mississippi River, eliminating a floodplain previously threatening more than three million people.

The dam is located on the San Andreas Fault and must withstand four feet of movement in any direction. The project preserved and enhanced 735 acres of habitat in the watershed, preserved an endangered plant, and developed a mitigation plan to allow kangaroo rats to use their burrow site with little impact to construction.

To ensure the dam would be aesthetically compatible with its surroundings, it was moved up the canyon to minimize the visual impact of the high embankment to the valley below stained exposed rocks were used on the downstream face of the embankment to blend with the soil. Access roads were designed to fit the terrain and exposed scarps were hydroseeded with native vegetation.



This is a remarkable engineering project that blends flood control protecting three million people with seismic concerns along the San Andreas fault, while minimizing environmental impact. This 550-foot-high structure blends seamlessly with its natural setting. It protects endangered species and preserves the historic works on the site.



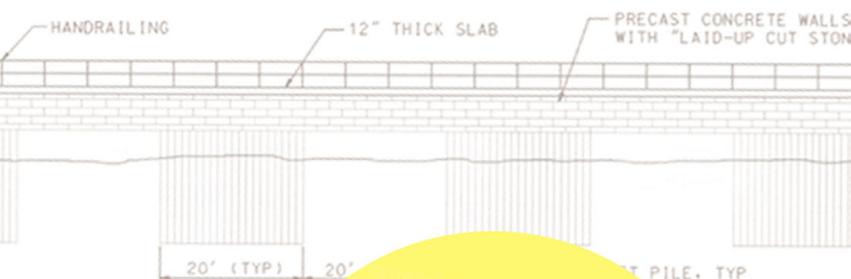
*Owasco Outlet East & West
Pier Rehabilitation
Auburn, New York*

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

*Design Firm:
O'Brien & Gere Engineers, Inc., Syracuse, New York*

The east and west piers at the Owasco Lake Outlet were originally built of timber and stone in the mid-1800s to discharge water from the lake. In the early 1900s, the New York State Department of Public Works, using cut stone blocks, rebuilt the piers. In 1962, the Corps completed a flood-control project by enlarging and deepening the lake outlet channel for 1.8 miles downstream from the outlet structures. By the 1990s, deterioration of the cut stone blocks was causing the piers to fall into the channel.

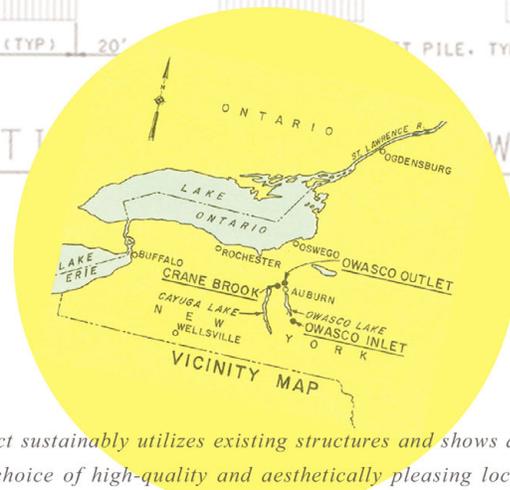
EAST PIER



WEST PIER



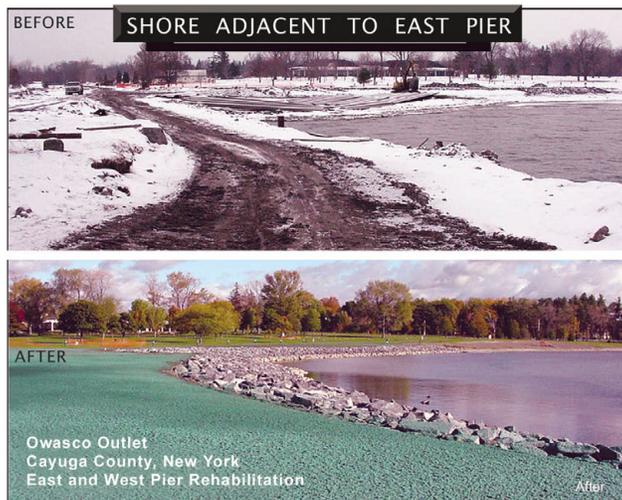
ELEVATION WEST



This project sustainably utilizes existing structures and shows an excellent choice of high-quality and aesthetically pleasing local materials for construction. Project enhancements were provided from cost savings.

The rehabilitation assures that the Owasco Outlet East and West Piers will continue to maintain the hydraulic conveyance of the outlet, protect the water pump station for the city of Auburn, and form a keystone in the redevelopment of the Victorian Park at the shore.

The construction cost was \$5,563,000.



*Dry Bayou / Thompson Bend
Riparian Corridor*

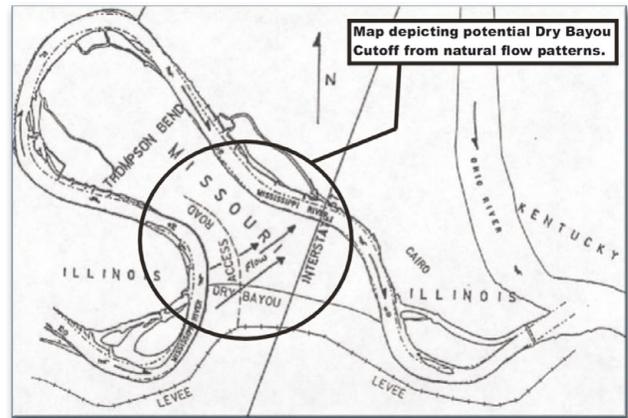
Scott & Mississippi Counties, Missouri

*Design Agency:
U.S. Army Engineer District, St. Louis*

*Design Firm:
U.S. Army Engineer District, St. Louis*

In this reach of the Mississippi River, a large meander created an agriculturally rich 10,000-acre peninsula-like land mass called Dry-Bayou/Thompson Bend. Over time, the bend experienced such severe erosion that the river began to cut a new channel across the peninsula. If left alone, navigation would become impossible along this reach of the river.

The plan developed by the Corps and local landowners created a non-structural, environmentally beneficial solution to minimize erosion and repair existing damage to the environment.



The project includes cottonwood clones and other hardwoods specifically bred for their hardy root systems, dutch elm disease-resistant elm trees, strategic placement of various forms of vegetation, and management plans to selectively harvest trees so they do not shade out and prevent undergrowth. The natural areas provide food, shelter, and shade for wildlife.

The project is a prototype throughout the entire Mississippi River Valley as a viable alternative to structural solutions.

This is an outstanding application of a non-structural solution that inherently benefits wildlife and should improve as it matures. Developed at one-third the cost of a structural solution, the project provides a seamless solution that is invisible to the observer, as it should be.

Devils Lake Levees
Devils Lake, North Dakota

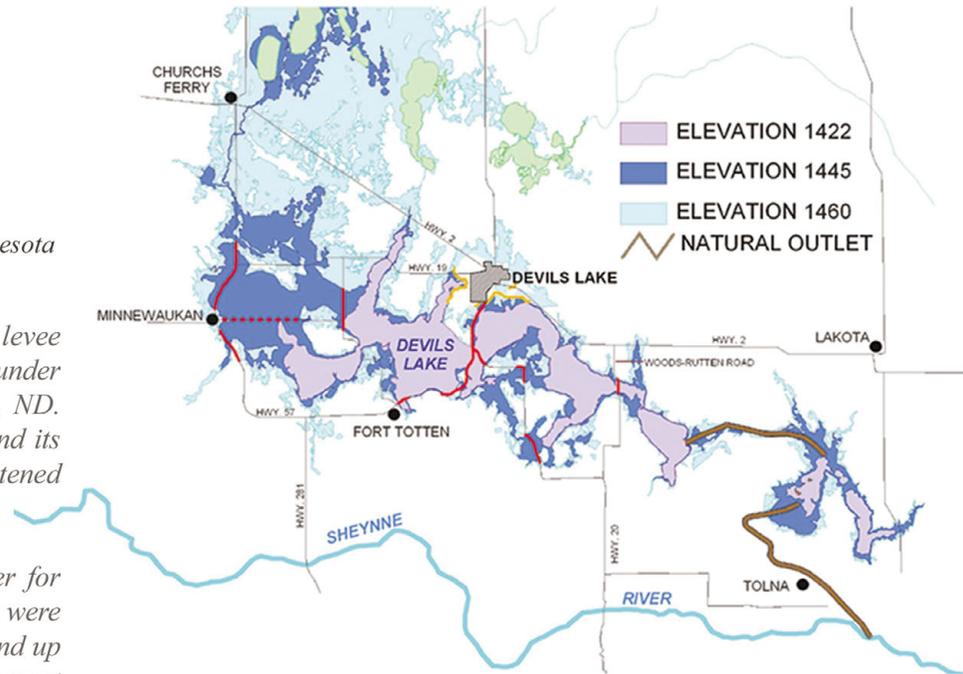
Design Agency:
U.S. Army Engineer District, St. Paul

Design Firm:
Barr Engineering Company, Minneapolis, Minnesota

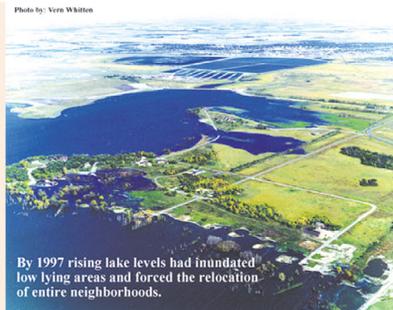
Under emergency conditions, a permanent levee project was designed in record time and under budget to combat flooding at Devils Lake, ND. Without the levee, the city of Devils Lake and its 8,000 residents would continue to be threatened by the rising waters of Devils Lake.

While levees typically hold back high water for short periods, the Devils Lake levees were designed as a dam more than 7 miles long and up to 30 feet in height. As a dam, the project must provide permanent protection and sustain the wear-and-tear of nonstop wave action and hydrostatic pressure for many years.

The levees were built in stages in response to rising lake levels.



RISING WATER RELOCATION



This project provides the best engineering solution available for this difficult problem. The jury was impressed with the high quality of execution, given the emergency conditions under which it was designed and constructed.



*Devonian Fossil Gorge Visitor Facility
Johnson County, Iowa*

*Design Agency:
U.S. Army Engineer District, Rock Island*

*Design Firm:
Shoemaker & Haaland Professional Engineers
Armadillo Arts, Coralville, Iowa
McComas-Lacina Construction, Iowa City, Iowa*

During the flood of 1993, the emergency spillway at Coralville Lake experienced high-velocity flows that eroded rock and soil to depths of up to 15 feet, exposing a world-class geological formation of Devonian Age rock and fossils. Within three years, about 750,000 visitors, many from other countries, came to Iowa to see what had once been the floor of a shallow tropical sea.

The visitors enjoyed their experience, but they lacked the information and guidance to interpret, understand, and fully appreciate the significance of the things they saw.

The construction of a facility including a parking lot, entry plaza, walkways, biostrome plaza, bronze markers, and overlook plaza enhances the visitors' experience and preserves and interprets an invaluable glimpse into Earth's ancient history.



This project has turned a scoured flood spillway into a community learning asset. This grassroots community initiative and funding effort resulted in an excellent interpretive design at minimal cost and environmental impact.



DESIGN AWARDS



*Front Row (L to R): Ms. Mary Elizabeth Boyd, ASID; Mr. Edward A. Feiner, FAIA;
Mr. Larry R. Barr, AIA*

*Rear Row (L to R): Mr. George T. Konstantopoulos, P.E.; Mr. Paul F. Morris, FASLA;
Mr. J. Michael Weise, ASHRAE, AEE, SBIC; Ms. Kimberly Fortenberry*

ENVIRONMENTAL AWARDS



Front Row (L to R): Mr. Carmelo Senatra, AIA; Dr. Oliver Hao, P.E.

*Rear Row (L to R): Mr. Paul F. Morris, FASLA; Dr. Chung C. Fu, P.E.;
Dr. Faysal A. Bekdash, ACEI*



Mr. Larry R. Barr, AIA
Principal, Quinn Evans | Architects
Chairman, Design Jury

Mr. Larry R. Barr is a principal of Quinn Evans | Architects, where he is the director of the Washington, D.C., office. He holds both a Bachelor of Science and Master's degree in Architecture from the University of Michigan. His work includes the design of multiple museum and theater projects throughout the Mid-Atlantic region. His work at the Kennedy Center Concert Hall received multiple design awards. Current projects include the renovation of the Opera House at the Kennedy Center and the preparation of a master plan for the Museum of Natural History. Mr. Barr is currently serving as the chair of the American Institute of Architects' (AIA) Federal Agency Liaison Group (FALG) and the Government Acquisition Policy Council. In addition to these current positions, he served as the Director of Publications for the Washington, D.C., Chapter of the AIA. Mr. Barr has been a featured speaker at multiple industry events. He is also a member of the United States Institute for Theater Technology and the Virginia Association of Museums.



Ms. Kimberly Fortenberry, NCIDQ
USACE Interior Designer of the Year, 2001
U.S. Army Engineer District, Mobile
Design Juror

Ms. Kimberly Fortenberry manages the Corporate Interior Design Program for the U.S. Army Health Facility Planning Agency and the U.S. Army Medical Command (MEDCOM). She is responsible for developing policy and standards for finishes and furnishings for MEDCOM facilities worldwide. Prior to coming to the U.S. Army Corps of Engineers in 1994, she worked for the Department of Veterans Affairs in Alexandria, Louisiana. Ms. Fortenberry is a 1982 graduate of Louisiana State University, holding a Bachelor of Interior Design degree. She is a registered interior designer in Louisiana and Alabama. Ms. Fortenberry received the U.S. Army Health Facility Planning Agency Charles E. Christ Award in 1998 for Outstanding Contributions to the U.S. Army Health Facility Construction Program. She has held offices in a number of professional organizations, including the Federal Interior Design Foundation, Council of Federal Interior Designers, Institute of Business Designers, National Council for Interior Design Qualification (NCIDQ), Louisiana Board of Examiners for Interior Designers, and the Louisiana State University Advisory Board to the Interior Design Program. She presents regularly at conferences and contributes to the Louisiana Interior Design Newsletter.



Ms. Mary Elizabeth Boyd, ASID
Principal Interior Designer, Department
of Veterans Affairs
Design Juror

Ms. Mary Elizabeth Boyd is Principal Interior Designer in the Office of Facilities Management, Department of Veterans Affairs, Washington, D.C. She is a graduate of Virginia Commonwealth University with a Bachelor of Fine Arts degree and has been a health care designer for 32 years. She is a professional member of the American Society of Interior Designers (ASID) and has held offices in the Washington Chapter. She received ASID chapter awards in 1993 and 1997. Ms. Boyd frequently presents at student events, NEOCON, and the Healthcare Symposium.



Mr. George T. Konstantopoulos, P.E.
President, Advanced Consulting Engineering LTD
Design Juror

Mr. George T. Konstantopoulos is President and Founder of Advanced Consulting Engineering, Ltd., in Arlington, Virginia. He received a Bachelor of Science degree in Physics (Honors) and Master of Electrical Engineering degree from the University of Maryland. He has been a professional engineer since 1975 and is registered in Maryland, Virginia, the District of Columbia, Maine, California, New Jersey, Pennsylvania, and Kentucky. He has been practicing engineering for the last 30 years. Mr. Konstantopoulos has extensive experience in project administration for a wide variety of projects, including healthcare facilities, office buildings, commercial buildings, municipal projects, educational facilities, and government facilities in the United States and overseas. Some of his projects have been the recipient of awards of excellence in historic preservation. He is affiliated with many professional organizations.



Mr. Edward A. Feiner, FAIA
Chief Architect, Public Buildings Service
U.S. General Services Administration
Design Juror

Mr. Edward A. Feiner was appointed Chief Architect of the U.S. General Services Administration (GSA) in 1996. He provides national leadership for the design and construction activities of the agency, including development of Federal courthouses, office buildings, national laboratories, border stations, computer centers, and special-use projects. He has directed the development of Public Building Service design standards as well as authored and implemented many of the agency's design and construction policies and programs. These include the GSA Design Excellence Program, Construction Excellence, First Impressions, and the GSA Design Awards Program. Prior to joining GSA in 1981, Mr. Feiner served as program manager for the U.S. Navy's shore establishment master planning program. Earlier in his career, he worked for Gruen Associates as well as M. Paul Friedberg and Associates. Mr. Feiner is a Fellow of the American Institute of Architects (AIA) and was awarded the Thomas Jefferson Award for Public Architecture by the AIA in 1996. He was awarded a Graham Foundation Fellowship at Catholic University of America in 1972. He is a graduate of Cooper Union (Bachelor of Arts in Architecture, 1969) and the Catholic University of America (Master of Arts in Architecture and Urban Design, 1971).



Mr. J. Michael Weise, ASHRAE, AEE, SBIC
Director, Government Marketing, The Trane Company
Design Juror

Mr. J. Michael Weise received a Bachelor of Science degree in Mechanical Engineering from Rutgers University and a Master of Business Administration degree from Webster University. He served for 21 years in the U.S. Air Force, initially as a C-130 pilot and later as a facilities and energy engineer at a military base and in the Air Force Reserve. Mr. Weise has over 28 years experience in the HVAC industry and has served in his current capacity, focusing on the Federal Government market, for 22 years. He provides technical support and liaison to Federal Government agencies on matters of HVAC design, products, technology, and energy-efficient applications. He further assists Trane management and field engineers in understanding Federal Government programs, needs, criteria, specifications, and requirements.



Dr. Faysal A. Bekdash, ACEI
Senior Environmental Engineer
Science Applications International Corporation (SAIC)
Environmental Design Juror

Dr. Faysal A. Bekdash is project manager and a lead technical person in charge of evaluating and costing standard and emerging technologies in areas related to power plants and water/wastewater treatment plants for SAIC. He is in charge of developing various conceptual designs for water treatment technologies and cost estimates of these technologies. He supports the U.S. Environmental Protection Agency (EPA) Office of Research and Development Costing Model and Conceptual Design Guidance Manual for advanced Water Treatment Technologies. He is developing software to calculate radionuclide amounts and concentration in several water treatment residuals. The EPA Office of Water presented him with the Tribute of Appreciation in 1991. He has conducted studies combining theoretical and environmental knowledge, geographic information systems, and mathematical modeling to evaluate non-point source pollution. As a consultant to SAIC, he provided technical support for two forecast economic studies, *The Central Asia Energy Demand and Economic Prospects* and *The Levant Energy Demand and Economic Prospects*. Dr. Bekdash received his Bachelor of Science degree from the American University of Beirut in 1977 and his Ph.D. from the University of Maryland, College Park, in 1993.



Dr. Chung C. Fu, P.E.
Director and Associate Professor
Bridge/Building Engineering Software
& Technology (BEST) Center
Department of Civil and Environmental Engineering,
University of Maryland, College Park, MD
Environmental Design Juror

Dr. Chung C. Fu is the Director of the Bridge/Building Engineering Software & Technology (BEST) Center and Associate Professor affiliate to the Department of Civil and Environmental Engineering, University of Maryland at College Park. He received his Bachelor of Science in Civil Engineering from the National Taiwan University and Master of Science and Ph.D. in Civil Engineering from the University of Maryland. He is a Fellow of the American Society of Civil Engineering and Member of the American Concrete Institute and Transportation Research Board. He is a registered Professional Engineer in Maryland, Virginia, and Washington, D.C. Before joining the faculty at the University of Maryland, he was the engineering supervisor of the Bechtel Engineering Corporation at Gaithersburg, Maryland, where he conducted many analysis, design, and construction projects. He has been principal investigator on numerous private, state and Federal projects and was in charge of many Federal projects for the Federal Highway Administration, National Transportation Safety Board, U.S. Army Corps of Engineers, and World Bank. He has given lectures and training courses and provided consulting services throughout the United States. Dr. Fu has published over 80 technical papers and given over 100 presentations.



Dr. Oliver J. Hao, P.E., D.D.E
Civil and Environmental Engineer
Department of Civil and Environmental Engineering
University of Maryland, College Park, MD
Environmental Design Juror

Dr. Oliver J. Hao earned a Bachelor of Science degree in Civil Engineering from Cheng Kung University, Master of Science degree from Colorado State University, and Ph.D. from the University of California, Berkeley. Currently, he is a Professor of Environmental Engineering at the Department of Civil and Environmental Engineering, University of Maryland. He is a fellow in the American Society of Civil Engineers and a diplomat in the American Academy of Environmental Engineers. Prior to his academic career, Dr. Hao worked for SIECO Inc., an engineering consulting firm, where he was involved in all phases of sanitary engineering, including water/wastewater treatment plants. Dr. Hao has participated in NSF/EPA proposal reviews and has published over 130 journal articles and 30 technical reports. He has participated in 65 conference/seminar/workshop presentations and is active in professional societies and community services. Currently, Dr. Hao is the Editor of *Chemosphere* (Science for Environmental Technology) and an Associate Editor of *Critical Reviews in Environmental Science and Technology*.



Mr. Paul F. Morris, FASLA
President-Elect, ASLA
Senior Supervising Landscape Architect
Parsons Brinckerhoff Quade & Douglas, Inc.
Chairman, Environmental Design Jury
Design Juror

Mr. Paul F. Morris holds a Bachelor of Landscape Architecture degree from the University of Oregon and a Graduate Certificate in Planning and Development from Harvard University. He has dedicated his career to assisting communities with politically sensitive and technically complex projects that require high-level project management, planning, and design skills to achieve environmentally sound and civic-minded solutions. His career has been defined by a rigorous commitment to research and innovation emphasizing sustainable design and resource management. In all of his work, he seeks to create settings that connect people to a unique sense of place. His work speaks to a deep appreciation of social context and is infused with both abstract and literal references to the natural and cultural nuances of a site. His work has resulted in over 25 citations and awards, including induction into *Who's Who in America* in 1997 and as an ASLA Fellow in 1998. He currently serves as President-elect of ASLA and is also active in the CNU, APA, NRPA, and ULI. Mr. Morris is a regular speaker at national and international conferences on topics ranging from urban regeneration and smart growth to gardens, parks, and memorials.



Mr. Carmelo Senatra, AIA
USACE Architect of the Year, 2001
U.S. Army Engineer District, Rock Island
Environmental Design Juror

Mr. Carmelo Senatra serves as Supervisory Architect and Chief of the Installation Support Section in the Engineering Division of the U.S. Army Engineer District, Rock Island. He holds a Certificate of Architecture from ICS, Scranton, Pennsylvania. Mr. Senatra was recognized as the 2001 USACE Architect of the Year for his efforts in introducing architectural refinements that have added aesthetic value to the Rock Island District's civil works projects while being sensitive to the facilities' historical integrity and cultural character. He is also responsible for the development of a District partnering program to support the Army's military facilities small projects needs over a six-state region. He serves his local community through his private architectural practice and as a member of the City of Moline Planning Commission. He has received numerous awards over the years including Rock Island District's Professional Employee of the Year for 2000 as well as Federal Employee of the Year by the Quad City chapter of the Federal Executive Association. Mr. Senatra is a registered architect in the State of Illinois and has been an active, professional member of the American Institute of Architects, holding leadership positions at both the council and chapter levels.

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Prepared by
Visual Production Center
Information Technology Laboratory
Vicksburg, MS



2002

*Chief of Engineers Design &
Environmental Awards Program*