



*The 1991 Chief of Engineers Design and Environmental Awards Program*



## From the Chief



While we celebrate the epochal events of the past 18 months, this is a perfect time to show the benefits of democracy -- a system of living which embraces innovation, creativity and competition. Such are the ideas which drive us on to increasing excellence. How appropriate that this awards program, inspiring the best to become even better, should encompass the ideals fostered in a democracy.

The Design and Environmental Awards Program is the perfect opportunity to demonstrate the Corps of Engineers' commitment to design and environmental excellence, and the superb professionals who achieve it.

On the next few pages, you'll find outstanding projects exemplifying creativity, efficiency, and innovation. The winners reflect civil works and military programs applications that show excellence in function, economy, resource conservation, aesthetics, and harmony with the environment.

I am proud to announce that this program, traditionally held every other year, will now take place annually.

Ten prominent, private sector design and environmental professionals spent two days pouring over the many entries. In addition to the traditional Honor Awards and Awards of Merit, this year's jurors have also picked an overall Award of Excellence.

As you turn the pages of this brochure, please join me in applauding these outstanding efforts -- the winners of the 1991 Chief of Engineers Design and Environmental Awards Program.

A handwritten signature in black ink, appearing to read 'H.J. Hatch'.

H.J. HATCH  
Lieutenant General, USA  
Chief of Engineers



# The Program

There were two categories of competition in this year's program. Military Programs and Civil Works, as opposed to the old program where competition categories were based on individual design disciplines. Additionally the revised program had an interdisciplinary jury approach for judging submissions, that provided a greater degree of flexibility for submissions and awards that address constructed projects and other types of professional design works that demonstrate or stimulate design excellence.

Criteria for judging specified that a winning entry must make a contribution that improves the users' ability to fulfill their mission effectiveness; should demonstrate or stimulate exemplary design practices, criteria and standards development or application, and serve as a model for future design activities; should be cost effective on a life-cycle basis and should demonstrate or stimulate careful design and planning that does not sacrifice performance or

quality; must demonstrate or stimulate aesthetic sensibility in terms of image, form, texture, and context, both in and of itself, as well as in relation to the existing environment; must demonstrate a high level of professional, technical, and functional proficiency in all aspects of performance; and finally a winning entry should demonstrate a high degree of interdisciplinary partnering among the various design professions.

A limit of one Chief of Engineers Award of Excellence may be given for an entry in the Military Programs category and one for an entry in the Civil Works Category. Honor Awards are given to entries which demonstrate or stimulate excellence in multiple design disciplines. Merit Awards are given for projects which relate to individual disciplines or to multiple disciplines. The actual number of honor and merit awards, as well as the awards categories is determined by the jury based on the actual submissions.

# Military Programs

## HONOR AWARDS:

PROJECT NAME: Installation Design Guide  
PROJECT LOCATION: Heidelberg, West Germany  
DESIGN FIRM: U.S. Army Engineer Division, Europe and Rapp & Associates - Planning & Design  
DESIGN AGENCY: U.S. Army Engineer Division, Europe

PROJECT NAME: NORAD and Space Command Headquarters  
PROJECT LOCATION: Peterson Air Force Base, Colorado  
DESIGN FIRM: Peckham Guyton Albers & Viets, Inc.  
DESIGN AGENCY: U.S. Army Engineer District, Omaha

PROJECT NAME: New Logistical Systems Operation Center  
PROJECT LOCATION: Wright Patterson Air Force Base, Ohio  
DESIGN FIRM: KZF Incorporated  
DESIGN AGENCY: U.S. Army Engineer District, Louisville

PROJECT NAME: Recreation Center  
PROJECT LOCATION: Presidio of Monterey, California  
DESIGN FIRM: Spencer Associates  
DESIGN AGENCY: U.S. Army Engineer District, Sacramento

PROJECT NAME: Commissary  
PROJECT LOCATION: Presidio of San Francisco, California  
DESIGN FIRM: Cromwell Truemper Levy Thompson Woodsmall, Inc. and Shapiro, Okino, Horn and Associates  
DESIGN AGENCY: U.S. Army Engineer District, Sacramento

## AWARDS OF MERIT

PROJECT NAME: Restoration of Cullum Hall  
PROJECT LOCATION: U.S. Army Military Academy, West Point, New York  
DESIGN FIRM: Iffland Kavanagh Waterbury, P.C. (Architect) and the Center of Preservation Research, Columbia University  
DESIGN AGENCY: U.S. Army Engineer District, New York

PROJECT NAME: Maintenance and Repair Manual for Historic Structures  
PROJECT LOCATION: Fort Lewis and Vancouver Barracks, Washington  
DESIGN FIRM: Walter Greissing Architects  
DESIGN AGENCY: U.S. Army Engineer District, Seattle

PROJECT NAME: Child Development Center and Religious Education Facility  
PROJECT LOCATION: Schofield Barracks, Hawaii  
DESIGN FIRM: Group 70 Limited  
DESIGN AGENCY: U.S. Army Engineer Division, Pacific Ocean

# Civil Works

## AWARD OF EXCELLENCE:

PROJECT NAME: The Bendway Weir  
PROJECT LOCATION: Middle Mississippi River, Dogtooth Bend Reach  
DESIGN FIRM: U.S. Army Engineer District, St. Louis Waterways  
Experimentation Station  
DESIGN AGENCY: U.S. Army Engineer District, St. Louis

## HONOR AWARDS:

PROJECT NAME: St. Peter Street Floodgates, Flood Control  
PROJECT LOCATION: Mississippi River and Tributaries, New Orleans, Louisiana  
DESIGN FIRM: U.S. Army Engineer District, New Orleans  
DESIGN AGENCY: US. Army Engineer District, New Orleans

PROJECT NAME: Bubble Curtain to Reduce Fish Mortality Resulting from  
Underwater Explosive Demolition  
PROJECT LOCATION: Lock and Dam 26, Mississippi River, Alton, Illinois  
DESIGN FIRM: U.S. Army Engineer District, St. Louis  
DESIGN AGENCY: U.S. Army Engineer District, St. Louis

PROJECT NAME: Ice Control Project  
PROJECT LOCATION: Oil Creek State Park, Pennsylvania  
DESIGN FIRM: Orbital Engineering, Inc.  
DESIGN AGENCY: US. Army Engineer District, Pittsburgh

PROJECT NAME: Wetland Creation and Monitoring Program  
PROJECT LOCATION: Stockton Deep Water Ship Channel, California  
DESIGN FIRM: U.S. Army Engineer District, Sacramento  
DESIGN AGENCY: US. Army Engineer District, Sacramento

PROJECT NAME: San Antonio Channel Improvement, Unit 8-3-2  
PROJECT LOCATION: San Antonio, Bexar County, Texas  
DESIGN FIRM: U.S. Army Engineer District, Fort Worth  
DESIGN AGENCY: U.S. Army Engineer District, Fort Worth

## AWARDS OF MERIT:

PROJECT NAME: Riverlands Environmental Demonstration Area  
PROJECT LOCATION: Melvin Price Locks and Dam, St. Charles County, Missouri  
DESIGN FIRM: U.S. Army Engineer District, St. Louis  
DESIGN AGENCY: U.S. Army Engineer District, St. Louis

PROJECT NAME: Gating to Protect Habitat at the Spillway Abandoned Mine Drift  
PROJECT LOCATION: Lake Ouachita, Garland County, Arkansas  
DESIGN FIRM: U.S. Army Corps of Engineers, Lake Ouachita Field Office  
DESIGN AGENCY: U.S. Army Engineer District, Vicksburg

PROJECT NAME: Local Flood Protection  
PROJECT LOCATION: Bettendorf, Iowa  
DESIGN FIRM: U.S. Army Engineer District, Rock Island  
DESIGN AGENCY: U.S. Army Engineer District, Rock Island

PROJECT NAME: Covered Bridge Rehabilitation  
PROJECT LOCATION: Knights Ferry, Stanislaus County, California  
DESIGN FIRM: Graton Associates  
DESIGN AGENCY: U.S. Army Engineer District, Sacramento

# MILITARY PROGRAMS

## HONOR AWARD

Project Name: Installation Design Guide  
Project Location: Heidelberg, West Germany  
Design Firm: U.S. Army Engineer Division, Europe and Rapp Associates - Planning & Design  
Design Agency: U.S. Army Engineer Division, Europe

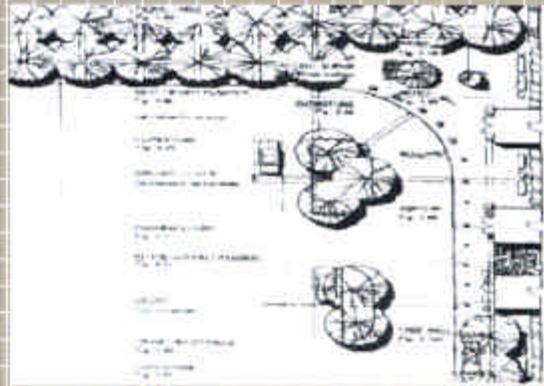
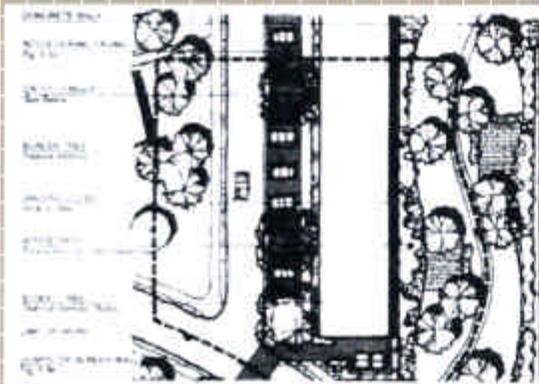


The Heidelberg Installation Guide (IDG) was the first comprehensive policy document in Europe to provide design guidance for all new construction, replacement, repair and maintenance of installation exteriors. This results in a harmonious community which is easier and less costly to manage and maintain.

Developing the Heidelberg IDG required partnership between users, designers and local German Officials. This partnership resulted in a commitment to enforce the design standards regardless of changes in mission and personnel.



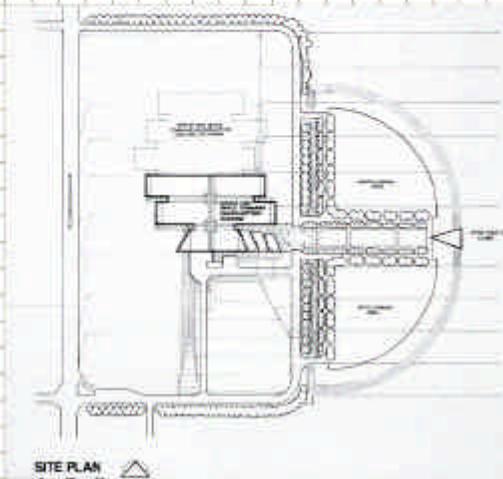
# CONVICTION



**Juror comment:** Very clear, well illustrated and nicely formatted guidelines that should serve for many years. Particularly liked multiple vignettes of sketches and photographs to make important points.

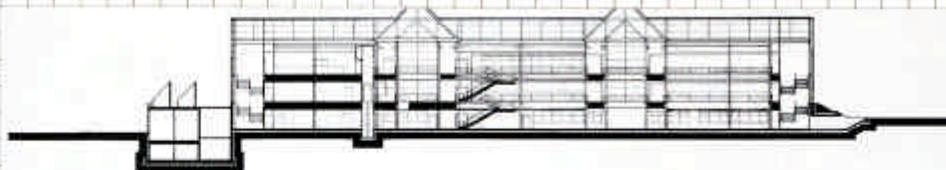
# HONOR AWARD

Project Name: NORAD and Space Command Headquarters  
Project Location: Peterson Air Force Base, Colorado  
Design Firm: Peckham Guyton Albers & Viets, Inc.  
Design Agency: U.S. Army Engineer District, Omaha

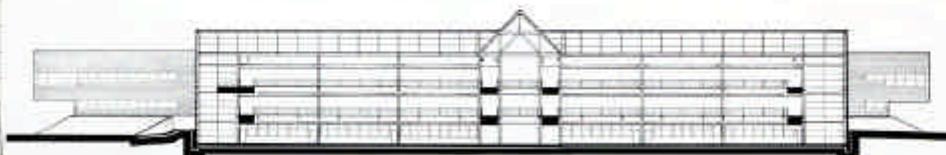


The design required 250,000 sq.ft. for 1,500 employees. Key elements were secure compartmented information facilities, radio-frequency shielded equipment rooms, open-office flexibility, and expansion capability. Other requirements include security, cafeteria, officers' dining room, space library, and an auditorium which can convert to a secure area.

The exterior expresses the sophisticated technology inherent in NORAD and Space Command.



BUILDING SECTION LOOKING WEST



BUILDING SECTION LOOKING NORTH



***Juror comment:*** Very representative of its high-tech aerospace mission. The site plan is appropriate for the base's headquarters/entrance building. Interior circulation is clear, creates functional identification and serves future expansion.

# HONOR AWARD

Project Name: New Logistical Systems Operations Center  
Project Location: Wright Patterson Air Force Base, Ohio  
Design Firm: KZF Incorporated  
Design Agency: U.S. Army Engineer District, Louisville



This is a telecommunications and data processing center in the command's headquarters. Its plan and massing are dictated by security and functional requirements which required one main point of entry and exit. The building is divided according to levels of security and, within a given area, subdivided according to zones of permitted access. The most public functions are concentrated on the outer perimeter and near the main building entry; compartmented areas with controlled access are placed to the building's rear and center.





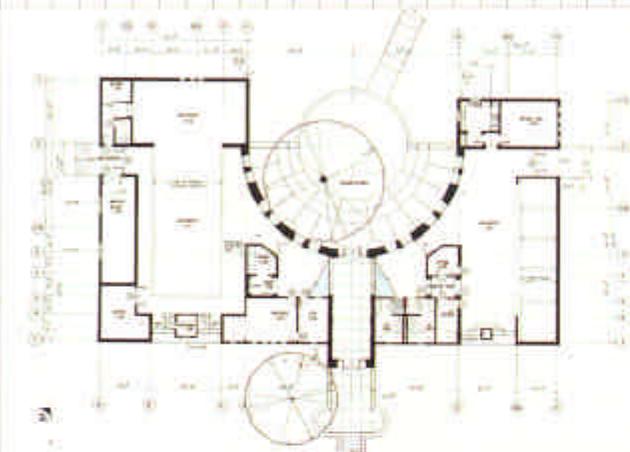
***Juror comment:*** A fine recalling of architecture that was strong during the 1920s and 1930s. Superbly crafted details. Even the subtle curved archway is terrific. The use of architectural berms against the blank wall makes a huge difference in appearance, as does the delicate scoring.

# HONOR AWARD

Project Name: Recreation Center  
Project Location: Presidio of Monterey, California  
Design Firm: Spencer Associates  
Design Agency: U.S. Army Engineer District, Sacramento



This 11,000 Sq. ft. one-story building is designed for multiple recreational activities of personnel at the Defense Language Institute. It captures the character of the California mission while blending with the surrounding Monterey area by combining classical material (stucco, tile roofing, etc) with the simple clean lines of contemporary architecture. It centers around a courtyard, and the building's sweeping circular walls define the interior circulation path enclosing the courtyard. This organization provides a sense of expanded area for all functions, which all have direct access to the courtyard.



**Juror comment:** This is an outstanding example of design drawing from influences in California history without pandering to ersatz mission-style cuteness. This is a modern building which respects its location and culture.

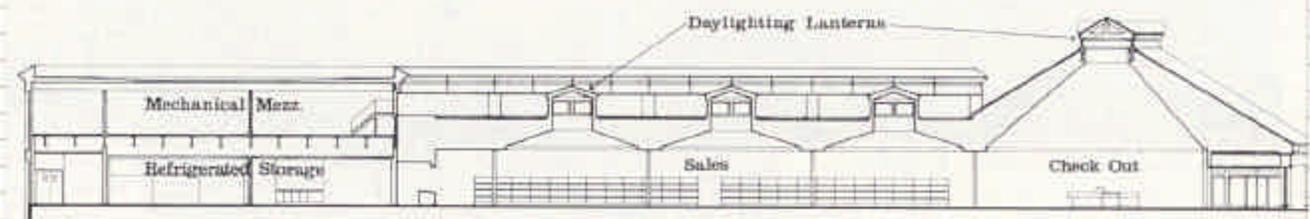
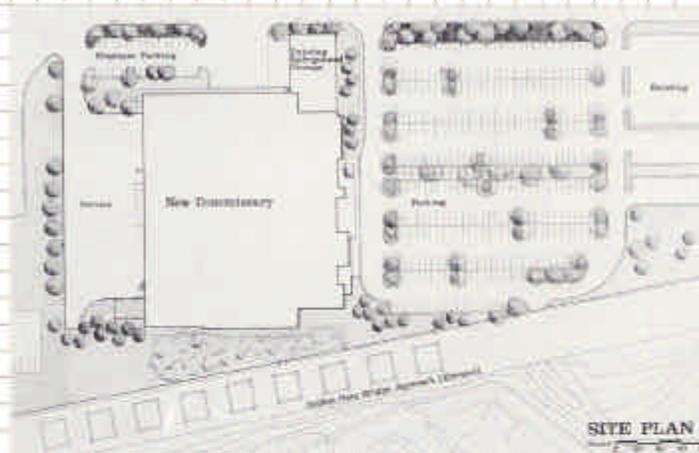


# HONOR AWARD

Project Name: Commissary  
Project Location: Presidio of San Francisco, California  
Design Firm: Cromwell Truemper Levy Thompson Woodsmall, Inc. and Shapiro, Okino, Horn and Associates  
Design Agency: U.S. Army Engineer District, Sacramento



This 87,670 sq. ft. commissary serves active and retired military personnel in the San Francisco area. Its floor plan provides a straight line of flow for each product from the truck to the display shelf with a minimum distance and handling time, reducing man-hours for restocking. Use of durable, low-maintenance materials and energy-efficient measures make the building cost-effective. The roof design incorporates daylighting lanterns that admit natural daylight and provide a bright, cheerful shopping environment.





*Juror comment:* A distinguished environment which combines an ordinary function (shopping) with a very special site. The interior and exterior environments demonstrate excellent design skill and careful attention.

## AWARD OF MERIT

**Project Name:** Restoration of Cullum Hall  
**Project Location:** U.S. Army Military Academy, West Point,  
New York  
**Design Firm:** Iffland Kavanagh Waterbury, P.C.  
(Architect) and the Center of Preservation  
Research, Columbia University  
**Design Agency:** U.S. Army Engineer District, New York



Cullum Hall is one of two neo-classic buildings at West Point. The dominance of its site, its imperial architecture and memorial role make Cullum Hall one of the most historically and architecturally important buildings at the academy. In 1986, the academy authorized maintenance

repairs to Cullum Hall, correcting mechanical and electrical features, and implementing faithful restoration of the building's finish and its commemorative plaques. The estimated cost was \$2,500,000; about \$750,000 went for restoration work.



***Juror comment:*** Much recognition for the Corps' efforts in authentic historic rehabilitation. Demonstrates the importance of research before design. Shows ability to continue functional use without modernization.



## AWARD OF MERIT

Project Name: Maintenance and Repair Manual for Historic Structures  
Project Location: Fort Lewis and Vancouver Barracks, Washington  
Design Firm: Walter Greissinger Architects  
Design Agency: U.S. Army Engineer District, Seattle



Both Fort Lewis and Vancouver Barracks are historically important posts. The maintenance manual provides for constant application of preservation treatments to reduce wear and deterioration and protect the original building fabric. It created design procedures and a management guidance training tool for personnel involved in the design and maintenance process.





***Juror comment:*** Simple, direct guidelines have begun to restore the physical appearance of the fort, particularly as seen from the highway. The restoration of Building 4320, now a museum, is especially elegant and carefully executed.

# AWARD OF MERIT

Project Name: Child Development Center and Religious Education Facility  
Project Location: Schofield Barracks, Hawaii  
Design Firm: Group 70 Limited  
Design Agency: U.S. Army Engineer Division, Pacific Ocean



A two-story, joint-use child development center and religious education facility covering 36,507 sq. ft., serving 233 children ages six weeks to 12 years. The original design was modified to use important site features while maintaining operational efficiency. For example, it retained a central courtyard with a large earpod tree. The facility fits into its residential environment instead of standing out.





***Juror comment:*** This is a fine homage to traditional Pacific Island architecture. It feels like it belongs to its site.

# CIVIL WORKS

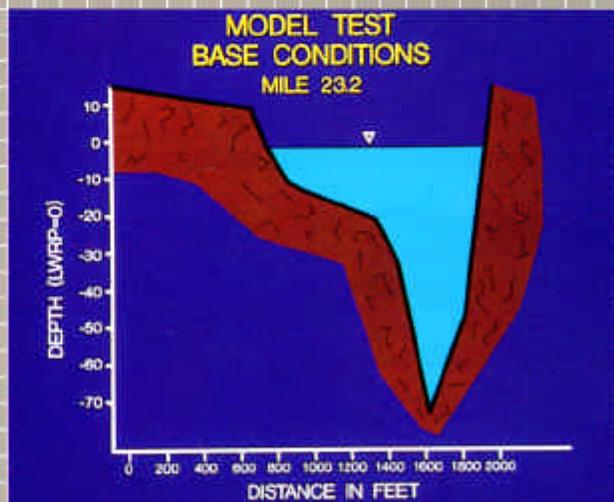
## AWARD OF EXCELLENCE

Project Name: The Bendway Weir  
Project Location: Middle Mississippi River, Dogtooth Bend Reach  
Design Firm: U.S. Army Engineer District, St. Louis  
Waterways Experimentation Station  
Design Agency: U.S. Army Engineer District, St. Louis

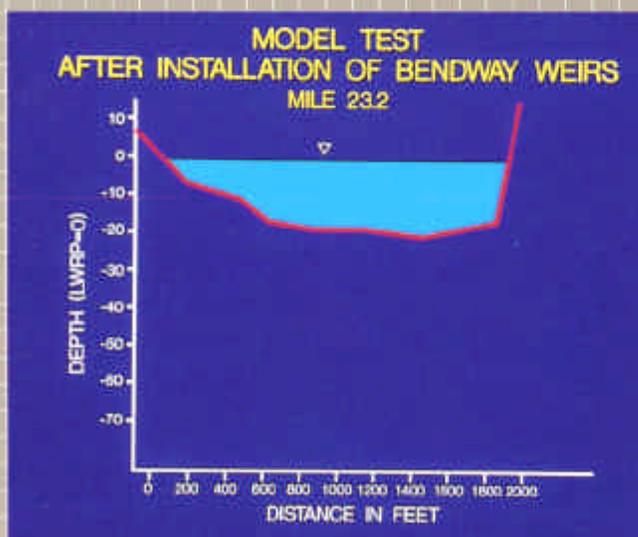


Dogtooth Bend is one of the worst navigation alignments on the Middle Mississippi, with a point bar which creates a deep, narrow, fast navigation channel. The Corps annually dredges millions of cubic yards of material to compensate, but the point bars periodically reform.

The Bendway Weir is a new structural prototype which has been constructed at Dogtooth Bend. It is a series of level-crested, submerged rock weirs built around the bend to widen the navigation channel and improve flow patterns. The submerged weirs allow passage of traffic over their tops at all flow connections.



The Bendway Weir widens the bend water surface area, decreases deep cuts, and eliminates most of the dredging. Because the Bendway Weirs are always submerged, they preserve the waterway's natural beauty.



**Juror comment:** The Bendway Weir is an example of applying research to solve a pervasive river control problem. The submerged weir does not have an adverse visual impact on the river, but does produce a hydraulically stable channel at relatively low cost.

## HONOR AWARD

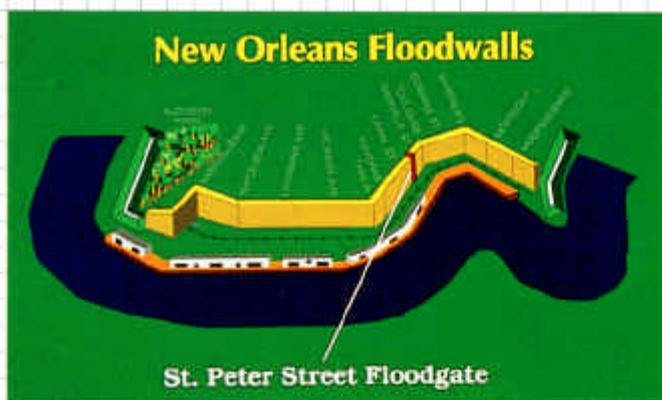
Project Name: St. Peter Street Floodgates, Flood Control  
Project Location: Mississippi River and Tributaries, New Orleans  
Design Firm: U.S. Army Engineer District, New Orleans  
Design Agency: U.S. Army Engineer District, New Orleans



Preventing future flooding on St. Peter Street required upgrading existing flood protection with a floodgate system. Making the project "fit the setting" was a prime concern since the floodgates would border the historic French Quarter.

All elements (floodwall, floodgates, color, landscaping) were chosen to be compatible with the area. The bottom roller gate design permits easy operation and maintenance. The area provides shade and a connection to the adjacent Moon Walk and Woldenburg Park along the Mississippi. Landscape plantings soften the structural elements of the floodgates.





**Juror comment:** This simple, practical design represents a correct solution to an urban problem. The gate (potentially an ugly intruder in an urban space) is small, clean, simple, viable, and "belongs". This is an elegant solution to the conflict between flood protection and waterfront access.

## HONOR AWARD

**Project Name:** Bubble Curtain to Reduce Fish Mortality Resulting from Underwater Explosive Demolition

**Project Location:** Lock and Dam 26, Mississippi River, Alton, Illinois

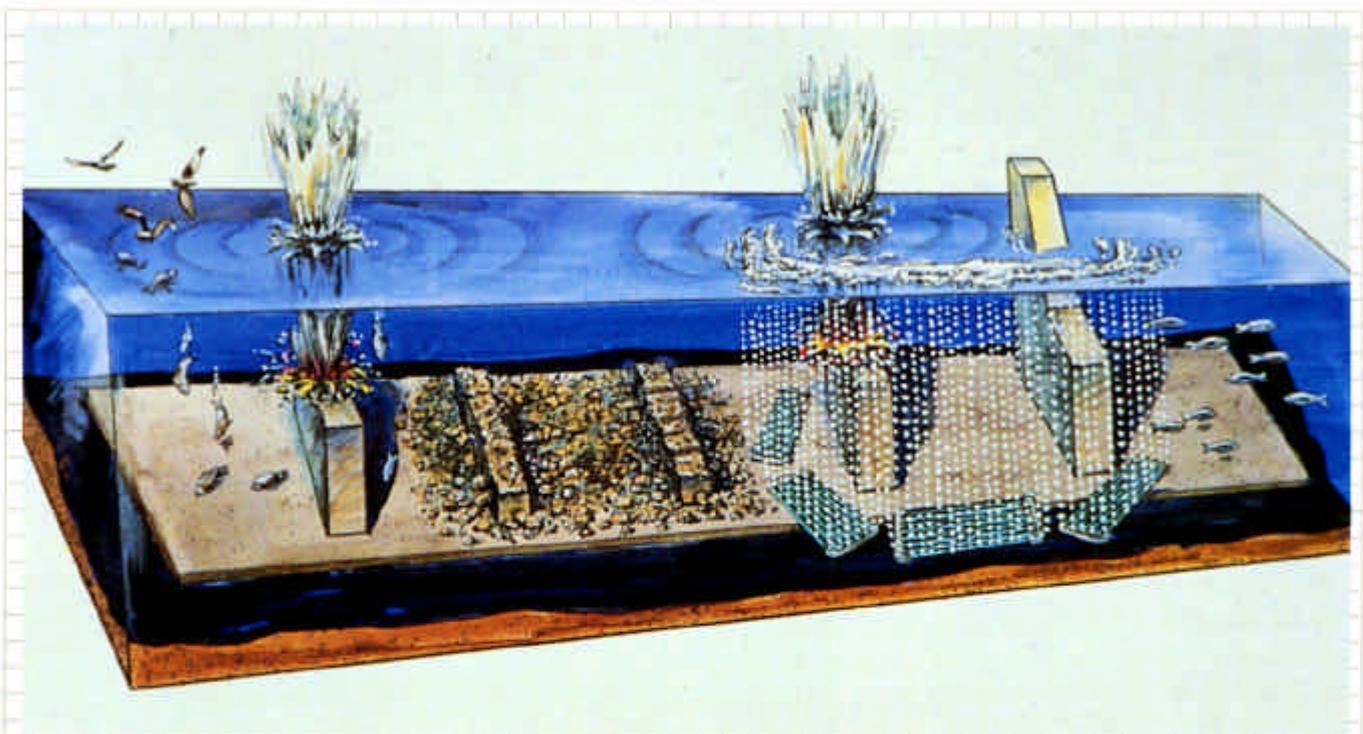
**Design Firm:** U.S. Army Engineer District, St. Louis

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



St. Louis District is using controlled underwater blasting to demolish portions of Lock and Dam 26. The district was tasked to develop a demolition technique with low fish losses. Demolition engineers know the deflecting properties of air bubbles in water, but the effectiveness of bubble curtains in protecting aquatic life was unknown. The district used a bubble curtain in controlled tests with caged fish and proved that it reduces the fish kill associated with underwater explosions.





***Juror comment:*** This study exhibits imaginative and innovative blending of engineering and ecological information with sound experimental design. This knowledge can be used to mitigate the impact of underwater explosions on aquatic life while still permitting construction and obstruction removal.

## HONOR AWARD

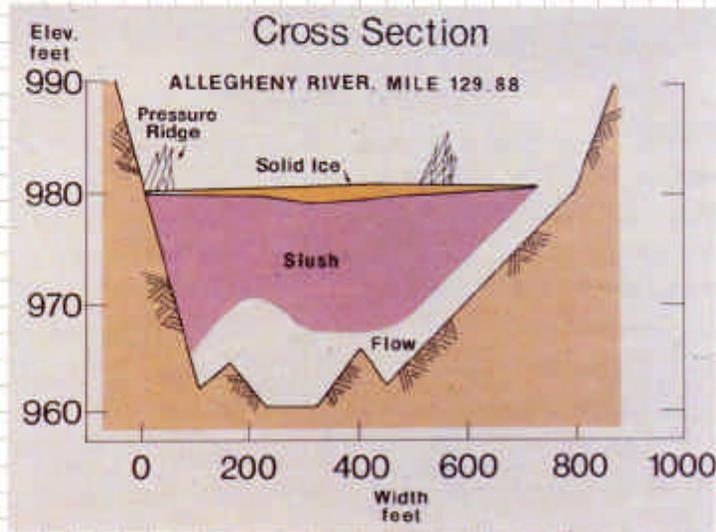
Project Name: Ice Control Project  
Project Location: Oil Creek State Park, Pennsylvania  
Design Firm: Orbital Engineering, Inc.  
Design Agency: U.S. Army Engineer District, Pittsburgh



Oil City, located where Oil Creek and the Allegheny River join, was plagued by ice jams and ice-related flooding. CRREL found that up to 18 feet of slush ice accumulated under the solid ice of the Allegheny downstream of Oil Creek, constricting the flow in a small area along the bottom of the river. When the Oil Creek ice broke up and floated to the Allegheny it had no place to go, flooding large volumes of ice and water into Oil City.

CRREL recommended installing a floating ice control structure in the Allegheny, plus building a small dam on Oil Creek with a floating ice control structure upstream from the dam. This reduced frazil ice production, and a flap gate in the dam allows the pool to be drained and revert to natural conditions most of the year.





**Juror comment:** This project is an excellent example of resolving an old problem by first using a research group to provide analytic insight into basic causes, then basing sound engineering on their data for an effective structural solution.

## HONOR AWARD

Project Name: Wetland Creation and Monitoring Program  
Project Location: Stockton Deep Water Ship Channel, California  
Design Firm: U.S. Army Engineer District, Sacramento  
Design Agency: U.S. Army Engineer District, Sacramento



Dredging the SDWSC was expected to destroy existing marsh and riverbank habitat, but the final project design included features to mitigate those losses, and enhance the habitat.

Dredge material was used to create about 81 acres of new shallow water habitat, wetland habitat and upland habitat, but because no design criteria existed, the habitats were created with little ability to predict what vegetation might develop or what species of wildlife might use them.

A comprehensive monitoring program was implemented, and the information obtained was used to develop criteria for establishing wetlands in other projects.



**Juror comment:** This project illustrates how effective planning can assure that the results can be environmentally productive with a nominal cost increase. It combines sound engineering with scientific follow-up to validate the total design and methods of restoring marsh ecosystems.

## HONOR AWARD

Project Name: San Antonio Channel Improvement, Unit 8-3-2  
Project Location: San Antonio, Bexar County, Texas  
Design Firm: U.S. Army Engineer District, Fort Worth  
Design Agency: U.S. Army Engineer District, Fort Worth



The project was required to reduce recurring flood damages to this historic area while preserving or enhancing the cultural and natural resources. The combined efforts of Fort Worth District, the San Antonio River Authority (SARA) and local groups developed a flood control channel to protect historical structures, large trees and to follow a more pleasing serpentine route. The design includes a concrete U-frame pilot channel with low vertical walls, with control gates to maintain a constant water level under normal flow.





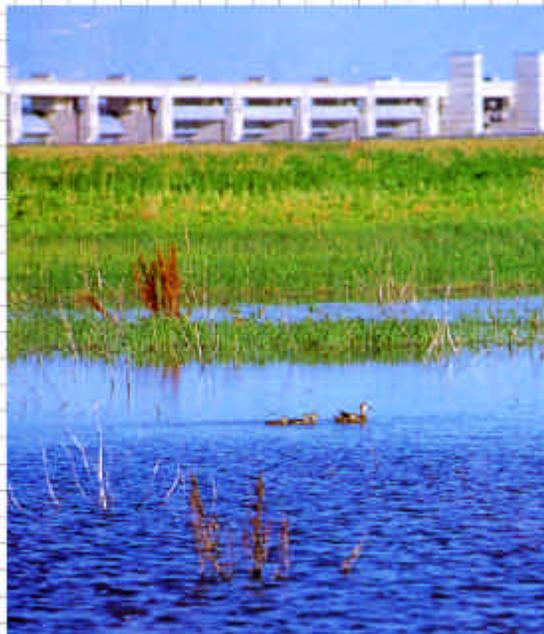
**Juror comment:** This project confirms a decade-long partnership between the Corps and the community. A carefully constructed channel meanders through the mission district, and the adjacent pedestrian corridor forms a vital link between downtown and Espada Mission. Careful use of indigenous plant materials softens the hard architectural edges and creates a low canopy which gives a friendly human scale to the project. The result is that more people can enjoy an eloquent, successful habitat in an urban environment.

# AWARD OF MERIT

**Project Name:** Riverlands Environmental Demonstration Area  
**Project Location:** Melvin Price Locks and Dam, St. Charles County, Missouri  
**Design Firm:** U.S. Army Engineer District, St. Louis  
**Design Agency:** U.S. Army Engineer District, St. Louis



The project was designed in response to increased groundwater levels resulting from the new dam and extended pool. It started with purchasing 1,230 acres of "seepage lands" and building gated gravity drainage structures. Establishing a prairie marsh began with converting 800 acres into wet and moderately-wet warm season grass prairie, and 150 acres into grass firebreaks. The remaining 250 acres have surface water and form a system of water marshes.





***Juror comment:*** This successful restoration of a moist prairie ecosystem is an excellent example of the Corps' response to a national environmental problem. It demonstrates state-of-the-art ecological knowledge in reconstructing the biotic subsystems (wet, moderately-wet and marsh) based on their original local distributions.

## AWARD OF MERIT

**Project Name:** Gating to Protect Habitat at the Spillway  
Abandoned Mine Drift

**Project Location:** Lake Ouachita, Garland County, Arkansas

**Design Firm:** U.S. Army Corps of Engineers, Lake Ouachita  
Field Office

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



A gate was designed and installed to protect a unique ecosystem in an abandoned mine shaft. It allows bats, salamanders, etc., to enter and exit without altering the cave temperature. The gate also protects people by preventing them from entering the cave.





***Juror comment:*** This simple low-cost control structure preserves a valuable environment and its inhabitants. It has allowed the initial cave environment to reestablish itself by eliminating practically all natural disturbances. This solution emphasizes a sensitivity to preserving the environment.

# AWARD OF MERIT

Project Name: Local Flood Protection  
Project Location: Bettendorf, Iowa  
Design Firm: U.S. Army Engineer District, Rock Island  
Design Agency: U.S. Army Engineer District, Rock Island

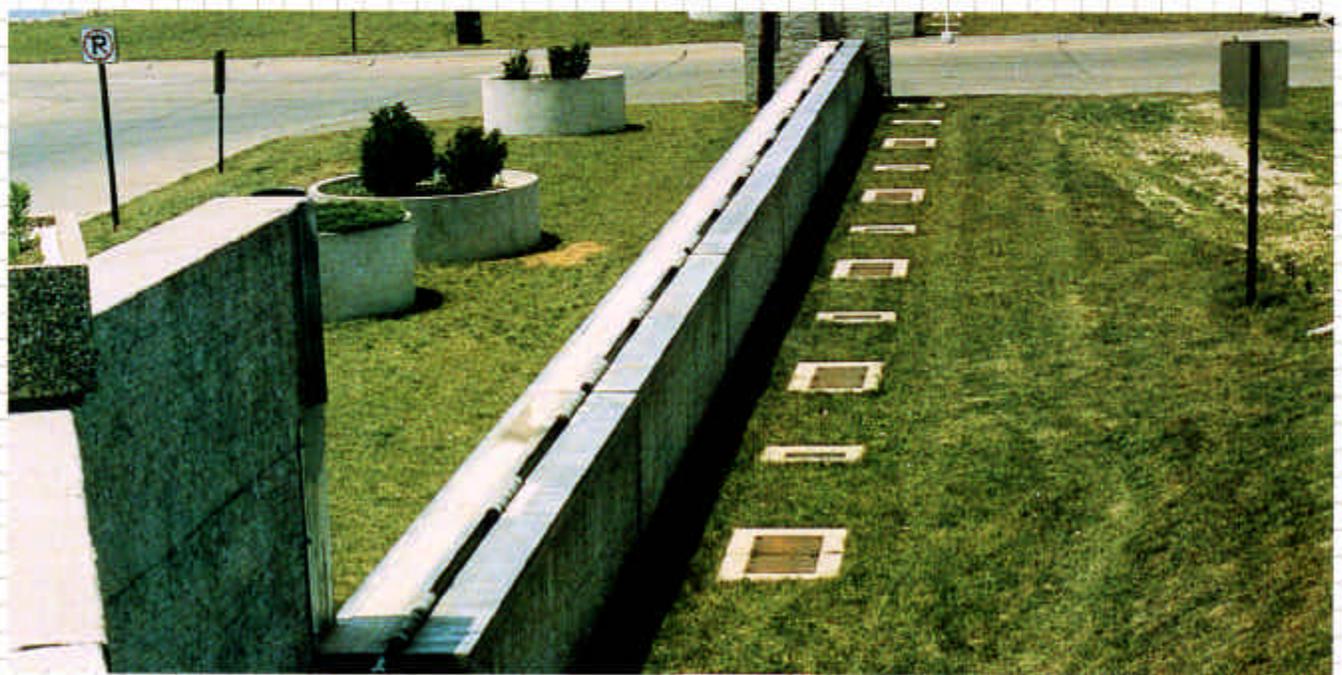


This project had to provide flood protection while allowing access to the Mississippi and not obstructing the view. The solution was a three-section folding floodwall -- a permanent concrete lower section, hinged concrete midsection, and hinged aluminum top section.

When not in use the struts, seals, and closure plates are stored on site and the wall assembly folds down leaving a three-foot high wall that does not obstruct the view.

A Tri-lock levee armor system, instead of riprap, protects the levee to allow pedestrian access. A boat ramp and fishing platform completes the park's recreation capability. A commercial riverboat also uses the park as its home port.





***Juror comment:*** The application of two design elements makes the compromise between flood protection and vista preservation effective. The folding flood-wall permits erection of a barrier for flood protection using light equipment, while providing an unobstructive low wall for normal river access and view. The grass-plugged Tri-lock slope provides natural armor and is far more attractive than riprap.

## AWARD OF MERIT

Project Name: Covered Bridge Rehabilitation  
Project Location: Knights Ferry, Stanislaus County, California  
Design Firm: Graton Associates  
Design Agency: U.S. Army Engineer District, Sacramento

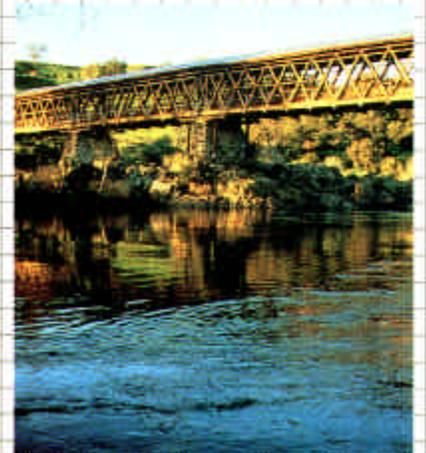


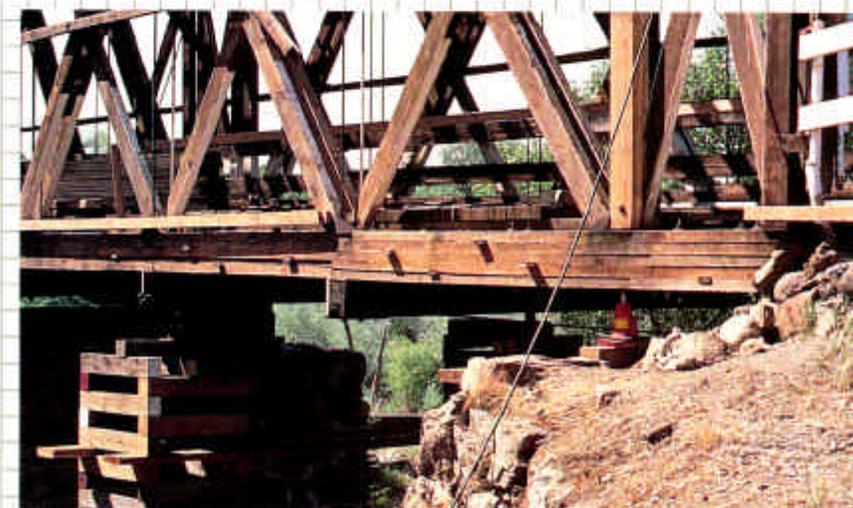
The rehabilitation project has three purposes -- stabilize the bridge and restore its structural integrity; restore its historic character; and enhance the interpretive experience.

Specialists in wooden bridges were contracted. The contractor replaced the

asphalt-covered decking with new wood decking. The approaches to the bridge were replaced with bridge siding and roof.

It is now a pedestrian bridge and a valuable interpretive experience for visitors to the Knights Ferry Recreation Area.

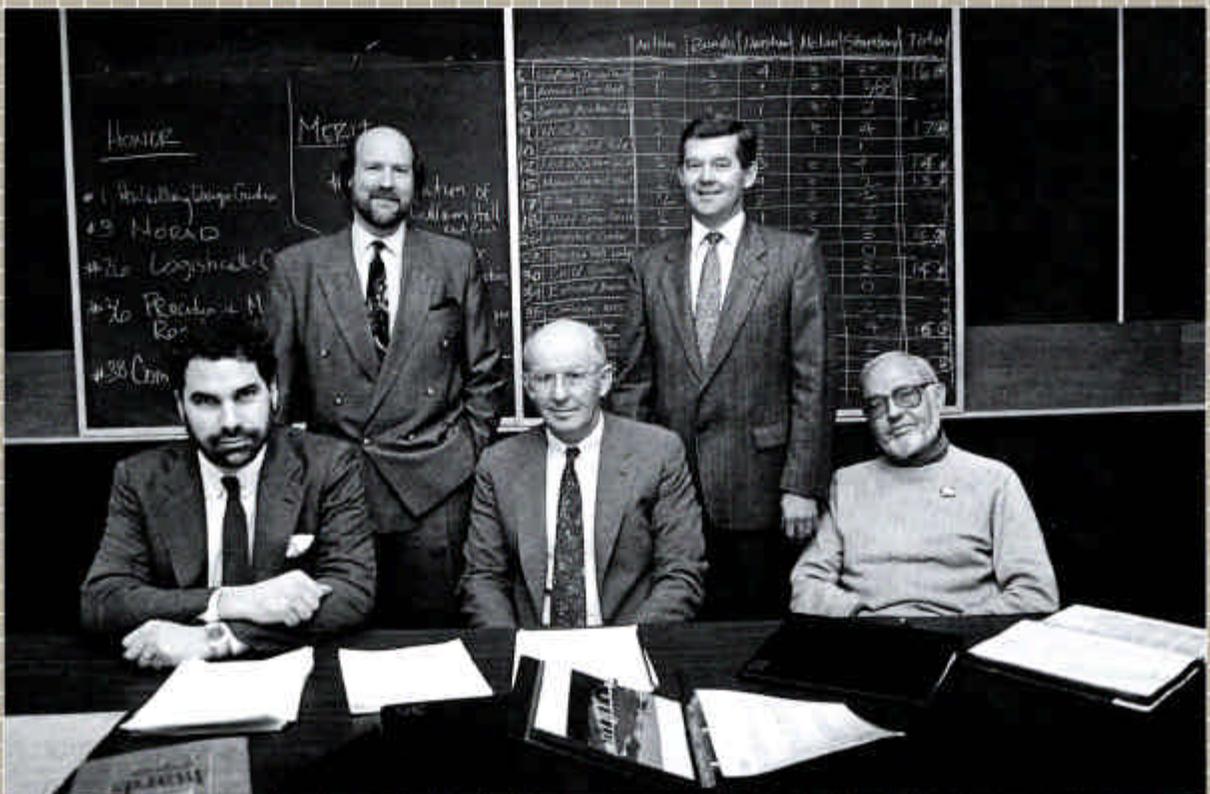




***Juror comment:*** This project reflects the Corps' sensitivity and empathy for maintaining or restoring cultural artifacts. By employing a contractor skilled in covered bridge restoration, historic construction techniques were combined with modern approaches and appropriate materials to restore this historically significant landmark.

# Military Programs

# The Jurors



*Standing (From Left) Mark L. Hinshaw, Richard S. Bundy. Seated (From Left) Steven J. Anlian, Anthony A. Nolan and James Stageberg.*

**Mr. Mark L. Hinshaw, AIA, AICP.** Mr. Hinshaw has degrees in both architecture and urban planning. He has worked for private consulting firms and is presently serving as an architect and principal urban designer for the city of Bellevue, Washington. Mr. Hinshaw is the immediate past president of the Washington State Chapter of the American Planning Association and current chairman of the National APA Urban Design Division. He also serves on the Urban Design Committee of the American Institute of Architects. He has published numerous articles on urban design and planning and is a contributing writer for the Seattle Weekly news magazine.

**Mr. Anthony A. Nolan, P.E.** Mr. Nolan is Executive Vice President and Chief Operating Officer of Williams, Hatfield & Stoner, Inc., an engineering, planning, and surveying firm with offices in south Florida. Mr. Nolan joined the firm in 1969 and became a partner in 1978. He has a Bachelor of Science degree in Civil Engineering from the University of Miami. Mr. Nolan is an active member of the American Society of Civil Engineers and presently holds the national office of Vice President of Zone II for the ASCE.

**Mr. James Stageberg, AIA.** Mr. Stageberg is President of Stageberg Partners, Architects, and is a professor of architecture at the University of Minnesota. His designs have won over forty regional and national design awards and have been widely published in architectural journals. He is a Fellow of The American Institute of Architects.

**Mr. Steven J. Anlian, ASLA, AICP.** Mr. Anlian is a landscape architect, city planner, and Vice President of HOH Associates, Inc., a nationally recognized land planning and landscape architectural firm with five regional offices. HOH's work includes many famous large scale resorts and new communities in Europe and in this country. In 1989-90, Mr. Anlian spent a year in Soviet Armenia where he developed a comprehensive master plan for a new city. This was the first Soviet city plan ever designed by an American. The city is currently under development.

**Mr. Richard S. Bundy, FAIA.** Mr. Bundy is a principal in the firm of ARCHITECTS Richard Bundy & David Thompson in San Diego. Mr. Bundy graduated from the University of Colorado, receiving a Bachelor of Architecture degree, with honors. In 1985, Mr. Bundy received one of the AIA's highest honors when he was named to the College of Fellows, bestowed for notable contributions to the profession of architecture.

# Civil Works The Jurors



*Standing* (From Left) E. Walter Lefeure, James E. "Tom" Sawyer, Jerrold Soesbe. *Seated* (From Left) Stanley I. Auerbach and Anthony Lumsden

**Dr. Stanley I. Auerbach.** Dr. Auerbach was the founding director of the Oak Ridge National Laboratory's Environmental Sciences Division. He also served as chairman of this laboratory's architectural and landscape review committee and held research professorships in the graduate programs in ecology at the Universities of Georgia and Tennessee. Dr. Auerbach was a member and chairman of the Board of Environmental Consultants that oversaw the design and construction of the Tennessee-Tombigbee Waterway and has served on and chaired numerous boards and panels in the National Academy of Sciences. Currently, he is a member of the Chief of Engineers Environmental Advisory Board, the Science Advisory Board of the EPA, and the Science and Technology Center's Advisory Board of the National Science Foundation.

**Dr. E. Walter LeFevre, PE, NSPE.** Dr. LeFevre is a professor of civil engineering at the University of Arkansas. He has held this post for the past 25 years. Dr. LeFevre is the immediate past president of the National Society of Professional Engineers. He is Senior Vice President of Engineering Services, Incorporated, a Springdale, Arkansas general civil engineering consulting firm. He recently was made a Fellow in the Institute of Engineers of Ireland and was named Arkansas Engineer of the Year in 1980.

**Mr. Anthony Lumsden, FAIA.** Mr. Lumsden is Senior Vice President and Corporate Director for Design at Daniel Mann, Johnson, & Mendenhall. He is responsible for the direction of all architectural design for DMJM world-wide. Mr. Lumsden has won awards from the American Institute of Architects, the Department of Housing and Urban Development, the National Society of Professional Engineers, and many other organizations. His work has appeared in publications world-wide. Mr. Lumsden has taught and lectured at numerous universities. In recognition of the innovation of his design approach, Mr. Lumsden was named to the College of Fellows of the American Institute of Architects in 1979.

**Mr. James E. "Tom" Sawyer, PE, ASCE.** Mr. Sawyer is responsible for 44 offices nationwide as Chief Operating Officer of Greiner Engineering, Inc. Mr. Sawyer has been with Greiner for 35 years. His professional experience encompasses both civil and structural engineering. In 1956, he became a member of the American Society of Civil Engineers, serving on various committees prior to his current role as president. Mr. Sawyer is an outstanding leader in his community and is actively involved in programs sponsored by the Greater Tampa Chamber of Commerce, the Hillsborough County Department of Aging Services, and the University of South Florida.

**Mr. Jerrold Soesbe, FASLA.** Mr. Soesbe is an independent landscape consultant and current Vice President of the American Society of Landscape Architects. For the past 24 years, Mr. Soesbe was the director of the Lake County Illinois Forest Preserve District and still provides consulting services to this organization. The Lake County Forest Preserve District has received many awards for design excellence and innovative programs including an award for the Des Plaines River Wetlands Demonstration Project. Mr. Soesbe received a Master of Science degree from the Lake Forest School of Management and a Bachelor of Science degree in Landscape Architecture from Iowa State University.

