



TEAM'S KEY PERSONNEL:

CREDENTIALS OF TORRE DESIGN CONSORTIUM, LTD.'S KEY PERSONNEL:

L. AZEO TORRE, Principal Architect, Principal Landscape Architect, AIA, FASLA, IIDA, FAAR, USGBC, will lead this project team, as he has all other 31 zoological master plans and exhibits nationally. With over 26 years experience in zoological, botanical, environmental, and graphic design, he has led and personally designed all of TDCL's projects from master planning to implementation, with over \$300.0 million worth of exhibits and facilities having been realized to date. With an extensive background in operations and capital campaign development, he additionally brings capability in establishing cost-benefit issues and proper balance between exhibit costs and visitor services facilities. ***He is a recipient of the prestigious Rome Prize (1972-1974).*** Originally licensed in 1972 as a Landscape Architect with a Bachelor of Landscape Architecture from Louisiana State University in 1972, he is licensed in 48 other states and in the province of Manitoba, Canada.

JEFFERY C. BORCHARDT, Senior Associate, Associate Project Manager, also has over 20 years of experience in TDCL zoological projects and will provide detailed project management, systems analyses, cost estimating, specification writing, project documentation, and construction administration. He has done this for the Chehaw Wildlife Park, GA; Memphis, TN; Norfolk, VA; Palm Beach, FL; Tampa, FL; Jackson, MS; Brookfield & Chicago, IL; most recently for the Peoria, IL; zoos. ***Mr. Borchardt is the project manager for Memphis Zoo's Northwest Passage currently in construction closeout phase; for Peoria Zoo's Entry and Africa Exhibit, currently in bidding phase; and for the recently completed Tropics of the Americas exhibit at the Palm Beach Zoo and Panda exhibit at the Memphis Zoo.*** Mr. Borchardt's academic background includes a Bachelor of Science-Ornamental Horticulture in 1979 and three years towards his Master of Landscape Architecture at Louisiana State University.

CHARLES A. CRAWFORD JR., Senior Landscape Architect, ASLA with 20 years of experience in TDCL zoological projects, will provide detailed design components and work with overall project production (design development through construction documents). Past experience includes the Chehaw Wildlife Park, GA; Waco, TX; Fort Worth, TX; Memphis, TN; Palm Beach, FL; Jackson, MS; Little Rock Zoo, AR; Peoria, IL; Evansville, IN; and Norfolk, VA zoos. He was the project manager for the Fort Worth Zoo's African Rain Forest exhibit and Waco Zoo and is the project manager for the Wilds of Mississippi exhibit at the Jackson Zoo, MS. Mr. Crawford received his Bachelor of Landscape Architecture in 1969 from Louisiana State University, and he is a Texas Registered Landscape Architect # 1171.

MARTHA B. COLEMAN, Senior Architect, with a Master of Architecture from Tulane University in 1981 and over 20 years of experience and over five years of experience in TDCL zoological projects, she will provide detailed design components and will work with overall project production (design development and construction documents). Ms. Coleman has recently been involved with the completion of design development documents for the Rain Forest exhibit at the Mesker Zoo, Evansville, IN; design development through construction documents for the Peoria Zoo in Illinois; various projects at the Lowry Zoo, Tampa, FL; construction documents for the Northwest Passage at the Memphis Zoo; among others.

Other available full-time staff with specific zoo experience include:

<u>Architects</u>	<u>Landscape Architects</u>	<u>Graphic Design</u>
J. Carey Bruner, MA	Barney Lighter, BLA	Joan Heausler, BA
Randy Aultman, RA	Luis Guevara, BLA	<u>Administrative</u>
Laura LeBon, BA	Randy Aultman, BLA	Regina Torre
Carolina Febles, BA		Roxanne Hadnott

Messrs. Crawford, Borchardt, Guevara, and Aultman each has over 20 years with TDCL, backed by a committed and talented support staff!



TEAM'S KEY PERSONNEL:

CREDENTIALS OF PBS&J'S KEY PERSONNEL (LIFE SUPPORT ENGINEERS):

Paul E. Cooley, P.E., Vice President, Senior Division Manager, is the Director of Aquatic Services for PBS&J Aquatics; M.S. Sanitary Engineering, University of Idaho, 1979; BS Civil Engineering, University of Idaho, 1976; California Professional Engineer #31571. During the past 25 years. Mr. Cooley has been involved with the unique challenge of applying sanitary engineering processes to marine parks, aquaculture/aquarium systems and various zoo projects. His expertise includes both fresh and saltwater systems culturing marine and freshwater mammals, marine fish and invertebrates, and rainbow and steelhead trout, utilizing both open, semi-open, and closed life support systems. Mr. Cooley is a published authority in the design of technologically advanced water treatment plants that meet extreme and diverse needs of a wide variety of marine and freshwater animals. Utilizing sand filtration, ozone disinfection, UV disinfection, nitrification, denitrification and chlorine disinfection, Mr. Cooley has designed systems that treat flows from 0.1 mgd to 50 mgd, with extreme turbidity (0.1 UTU) and coliform (1/100 ml) requirements. Mr. Cooley has been responsible for process design, project management, QA/QC on systems ranging in cost from \$500,000 to \$10.0 million.

David A. Cover, P.E., Supervising Engineer; M.S. Water Quality Engineering, University of California, Berkeley, 1997; B.S. Civil Engineering, California State Polytechnic University, 1994; California Professional Engineer#57916. Mr. Cover is a supervising engineer, providing project management and technical support for aquatic life support engineering projects and brings an in-depth knowledge of water chemistry and water treatment processes. His experience and education provide him with both a practical and theoretical understanding of the treatment processes used in aquatic life support systems. Mr. Cover served as project manager on a variety of life support system design projects, including the World of Ecology at the California Science Center, the Los Angeles Zoo Sea Lion exhibit, the Ocean Education Center and the Memphis Zoo Northwest Passage.