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University of California at Santa Barbara, 1964-1968, Biology & Political Science
1973-1974, Environmental Studies
1989-1990, Environmental Studies &
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Harvard University,
Graduate School of Design 1990

Founding Member, USGBC LEED Water Efficiency Technical Advisory Committee, engaged in writing LEED Standards and next versions, and awarding points for innovative project applications.

Co-Founder, Algalita Marine Research Foundation (AMRF), Long Beach, California. President Emeritus. *Algalita Marine Research Foundation, based in Long Beach, conducts vital environmental research, outreach, and educational and community activities. The Foundation and Co-Founder Capt. Charles Moore operate the Oceanographic Research Vessel ORV Alquita, and have produced the seminal documentary film "The Synthetic Sea" revealing the impacts of fugitive plastic pollution on marine ecosystems.*

MAJOR LEED & RELATED SUSTAINABILITY PROJECTS

- Rainwater harvesting system, storage tanks, and cooling tower water recycling design, specifications, and value engineering for the Cathedral Hill Medical Center, a \$1.6 Billion high-rise facility that will cover an entire city block, San Francisco, California. In conjunction with The Smith Group and Sutter Health, this project will include rainwater reuse in building landscape decks and a comprehensive sustainability overlay throughout the design.
- Design and construction planning for the Portrero Public Housing Redevelopment project, involving new street layout and redevelopment of a blighted WWII-era barracks-style housing development. The new design includes a new street grid and walking, livable neighborhood design and high amenity value. The redeveloped project will include approximately 1500 new units, green building practices, and high levels of energy and water efficiency.
- Design, permitting, and construction-related planning, with Solomon WRT Architects, for Hunters View, San Francisco, California. This LEED-ND project consists of 700 units of redevelopment over 22 acres adjacent to the Hunters Point Naval Shipyard site. Responsibilities include Sustainable Streets planning, LID stormwater planning, wastewater & recycled water infrastructure, contaminated soil mitigation, vertical

integration with code and permitting authorities and regulatory agencies, project integration, water conservation planning, and sustainability.

- Sustainable infrastructure, LID stormwater, recycled water, conservation and water quality planning for River North, with Moule/ Polyzoides Architects. This 300 acre redevelopment area involves the New Urbanism upgrade of the area immediately adjacent to San Antonio's downtown and the extension of the River Walk.
- Design, permitting, construction supervision, and follow-up services, with Moule/Polyzoides Architects, of the Natural Resources Defense Council's Robert Redford Building, the NRDC's West Coast Headquarters, the nation's highest rated LEED™ Platinum Green Building project, Santa Monica, California.
- Design, permitting, construction, and follow-up services, with EHDD Architects, of The Audubon Center at Debs Park, the nation's second-highest LEED™ Platinum Building project, Los Angeles, California.
- Design, planning, permitting, and construction, with Post Ranch architect Mickey Muennig and Todd Jersey Architects, of the Hotel Gaia, a LEED™ Gold hotel serving the Napa Valley, California.
- Design, planning, permitting, and construction, with Todd Jersey Architects, of the Hotel Atman, a LEED™ Silver hotel serving the Shasta, Trinity, and Redding area, in Anderson, California.
- Design, permitting, and construction, with architect Steve Glenn, of the LEED™ Platinum Living Homes zero-discharge urban single family residential project, Santa Monica, California. One of five LEED™-Homes Beta Program participants, this project also won the highest grant award yet issued by the City of Santa Monica for water conservation and Low Impact Development stormwater design.\
- Design and permitting, with architect Ed Rose, of the Optimum Performance Home at The Sea Ranch, a LEED™ Platinum residence that is one of five LEED™-Homes Beta Program participants, The Sea Ranch, Sonoma County, California.
- Design and engineering, with Arkin/Tilt Architects, of the LEED™ Gold Peninsula Open Space District Headquarters and Trailhead, featuring straw bale construction of the visitor center and an LID stormwater management plan that preserves the site's sensitive watershed values, Palo Alto, California.
- Member of the Mississippi Renewal Commission appointed by the Governor of Mississippi, in the development of the Master Plan for the recovery of 11 cities and the entire Gulf Coast following Hurricane Katrina. Related involvement has included the provision of 20 skid-mounted membrane filtration modules to Shelters and Responder Centers immediately following Hurricane Katrina, providing potable water from contaminated surface water sources, and the preliminary design of 11 new energy-efficient wastewater recycling facilities in Mississippi and Louisiana to replace wastewater treatment plants that were destroyed and which form the foundation of the effort to make the area habitable again.
- Senior Planner, with Torti Gallas Associates, HUD, and the Tacoma Housing Authority, of the award-winning Salishan Urban Redevelopment Project, involving the Zero/Low Impact (re)Development of 200 acres of mixed use commercial and residential buildings, including 900 units of housing on a New Urbanism template, funded by a Federal Hope VI Grant. Recipient of a \$200,000 Grant from the Washington State Department of Ecology, a basic organizing principle of the project was the restoration of the urban watershed and elimination of impacts on the adjacent

salmon stream, as well as implementation of the sustainability elements of energy conservation and efficiency, resource recovery and recycling, appropriate materials and building forms, and waste reduction, Tacoma, Washington.

- Design and engineering, with Moule/Polyzoides Architects, of the New Urbanism mixed-use and sustainable mixed use redevelopment of the brownfields urban center and Snake River frontage, including renewable energy, passive solar design, recycled water, and rigorous water conservation, Sand Point, Idaho.
- Design and engineering, with Barry Berkus and B3 Architects, of the Wilder Museum and new town plaza, with recycled water and rigorous water and energy conservation, an LID stormwater plan, and comprehensive sustainability plan, Los Olivos, California.
- Design Team, with John Lyle, of the Lyle Center for Regenerative Studies, California State Polytechnic University, Pomona, the epitome of the application of sustainable and regenerative design principles. Acting Technical Director during the start-up 1994-95 academic year of the new, 330 acre facility using passive solar design, solar energy, reclaimed water, and sustainable building, landscaping, stormwater, recycled wastewater, and sustainable agricultural practices. Responsibilities included directing the maintenance and operations at the facility, development of aquaculture and onsite wastewater and bioengineered LID stormwater systems, development of graduate research programs, participation in graduate and undergraduate curricula and instruction, and coordination of contractors, Pomona, California.
- Design and installation of an integrated landscape and public gathering area at Real Goods Sustainable Living Center, featuring the ECS subsurface drainage and irrigation system and recycled municipal wastewater, Hopland, California.
- Occidental College Long Range Master Plan, sustainability elements and infrastructure, with renewable energy and recycled water, Occidental College, Eagle Rock, Los Angeles County, California.
- Brooks Institute Campus Expansion Master Plan, sustainability elements, including LID stormwater plan, renewable energy and energy conservation specifications, and provision of recycled water and water conservation.
- Design, with Desert Partners, of the Sustainability and Infrastructure Master Plan for the New Urbanism 500 acre infill mixed use and residential community adjacent to Palm Springs, Rancho Mirage, California.
- Pomona College Strategic Master Plan, integration of Campus systems and sustainability elements, water and storm water systems, landscaping integration, energy systems integration, Claremont, California.
- Polytechnic School Strategic Master Plan, Sustainability Elements including storm water mitigation and Low Impact Development features, energy efficiency and renewables, water and plumbing features and gray water and recycled water provision, Pasadena, California.
- University of California at Merced and UC Merced Community Planning Area, Planner, Nolte & Associates, Engineers, comprehensive sustainability element, water conservation and water supply infrastructure plan, wastewater and recycled water plan, and LID stormwater plan. Conducted site infiltration testing study prior to groundbreaking, and feasibility analysis for onsite treatment of wastewater and reuse.
- Design of integrated and sustainable Storm Water Management Plan for the City of San Francisco Port Authority, utilizing watershed-based analysis and receiving waters pollution limits (TMDLs) as the organizing principles. Development of Best

Management Practices (BMPs) options for present and future site development of all Port properties between the Bay Bridge and brownfields mitigations.

- Installation and testing of first storm water decontamination unit to be deployed in the United States, with Battelle National Labs and Purizer Corp., Malibu Lagoon, Malibu, California. The system utilizes UV light and ozone in a high-rate configuration to decontaminate storm water prior to discharge into a sensitive wetlands and estuarine habitat.
- Design, with Dublin/ San Ramon Services District, Camp Dresser McKee Engineering, and Great Circle Technologies, and implementation of pilot and full scale demonstration projects drawing raw wastewater from the municipal sewer and producing high-quality recycled water using ultrafiltration and UV disinfection, Pleasanton, California.
- Feasibility study for a 1000-acre project and selection of sustainability strategies and technologies, including small-scale gas turbine energy cogeneration and an extremely energy-efficient wastewater recycling facility, Ruidoso, New Mexico.
- Design, with Moule/Polyzoides Architects, of the sustainability template and long-term infrastructure plan, including energy conservation and renewables, water conservation, gray water, recycled water, and storm water attenuation for the 2000-bed Southwest Student Housing Project, UCLA, Los Angeles, California.
- Master Plan of Tribal Lands, including housing and retail, The Morongo Band of Mission Indians, and design, construction, and follow-up services, of the 250,000 gpd wastewater recycling system treating high-strength waste, *Morongo Casino*, Cabezon, California.
- Design, in conjunction with the County of San Mateo and the San Francisco Bay Area Regional Water Quality Control Board, and permitting and installation of wastewater recycling and greenhouse reuse systems, Bay City Flowers. Preliminary to the permit being issued, a comprehensive watershed and groundwater study was conducted. The facility includes 50 acres of water harvesting from stormwater and irrigation runoff, and water reuse in 120,000 square feet of greenhouses for commercial potted plant production, Half Moon Bay, California.
- Design, with Van Atta Landscape Architects, of Isla Vista Community Park, including protective mitigation measures for the sensitive coastal blufftop site, Santa Barbara, California.
- Design and demolition/restoration site supervision, with CH2MHill, of the site of the red-tagged *Hotel Amalfi*, including environmental restoration of the sensitive Mediterranean coastal site. The effort involved a hydro-geological evaluation, restoration of watershed function, regeneration of native woodlands, re-establishment of the high coastal amenity values, riparian habitat enhancement, and redevelopment of the demolished hotel to a site of national significance, Naples, Italy.
- Master Plan, with the El Paso YWCA and the architectural firms of Moule/Polyzoides and Duany Plater-Zyberk, of *Hueco*, "*The Hollows*," a New-Urbanism planned community of 2000 units in El Paso, Texas, with passive solar design, resource efficient energy planning, bio-engineered water harvesting storm water plan and onsite wastewater treatment and reuse.
- Consultant, City of Long Beach and the Green Belt Committee, evaluation of plan to daylight a major storm drain channel and use bioengineering, recycled water, pollution abatement best management practices (BMP), and sustainable landscaping

techniques to create a natural park/storm water runoff corridor in an abandoned oil company pipeline right-of-way transecting south-western and impacting the Colorado Lagoon, a major amenity. Long Beach, California.

- Senior Planner and Sustainability Consultant, with CH2MHill, for the Development Master Plan for Arrowhead Springs, an 1800 acre project including golf course, hotels, convention center, housing, vineyards, and major spa/fitness/training center. The project involved the design of three New Urbanism villages modeled after Italian hill towns, intensive energy and water conservation, water harvesting, and design of a wastewater recycling system and recycled and potable water infrastructure.
- Master Plan and Sustainability Planning, with Catellus Development Corporation, for the 350-acre Mission Bay Project, site of the new UCSF Campus and 25,000 units of housing. Planning included restoration of brownfields and the Bayfront fresh water hydrology, development of the sustainable wastewater recycling plan and LID stormwater plan, water conservation, and integrated landscape, San Francisco, California.
- Master Plan, with Moule/Polyzoides Architects, for *Civano*, the 1000-acre development of the northeast section of Tucson, with sustainable and *New Urbanism* land use planning. The project includes recycling of wastewater, attenuation of storm water flows, low-cost passive solar housing, alternative building materials, grid-tie photovoltaic roof tile systems, and restorative landscaping, Tucson, Arizona.
- Design and sustainability planning, with Moule/Polyzoides Architects, for the integrated 400-acre urban forest conversion by the City of Los Alamos from US Forest Service lands. The comprehensive sustainability elements include wastewater systems, water delivery and storage options, bioengineered storm water and runoff management systems, fuel reduction strategy, low-impact roads and streets layout, keylining of the topography, and alternative energy options, with maximum preservation of forest and watershed values. The completed project withstood the devastating forest fire with minimum damage, Los Alamos, New Mexico.
- Consultant, State of New Mexico Lands Commission, for the New Urbanism Master Plan for *Mesa del Sol*, the 13,000-acre annexation to the City of Albuquerque. The design of sustainable systems includes alternative bioengineered and LID storm water planning to retain and conserve rainfall, a recycled wastewater system, and grid-tied renewable energy systems, as well as an integrated water conservation and energy conservation plan, Albuquerque, New Mexico.
- Design, permitting, construction, and follow-up service, with the City of Beverly Hills and the City Engineering Department, of the first gray water/landscape reuse system, integrated storm water attenuation landscape, and protocols, City of Beverly Hills, California.
- Senior reviewer and contributor, Wastewater & Storm Water Management Alternatives for Reducing Pollutant Mass Discharge to the Bay, prepared for the San Francisco Public Utilities Commission by CH₂MHill. San Francisco Sewer, wastewater, and storm water system alternative study, 1997.
- Environmental and Sustainable Development Advisor to President Amata Kabua, The Republic of the Marshall Islands, including development of solid waste management options, sustainable fisheries development, development of aquaculture and marine resources and derived pharmaceuticals, and environmental assessment including proposed cleanup of nuclear contamination on Bikini Atoll, 1994-98.

- Review of the Draft Disinfected Tertiary Recycled Water Guidelines (Title 22), AWWA and California Department of Water Resources, 1996.
- Marketing study of the aquaculture fish *tilapia* in over 20 LA Community Farmers Markets, including participation in the weekly marketing of organically raised fish, and the design of a recirculating fish and hydroponics produce production facility for the inner city, 1993-96.

