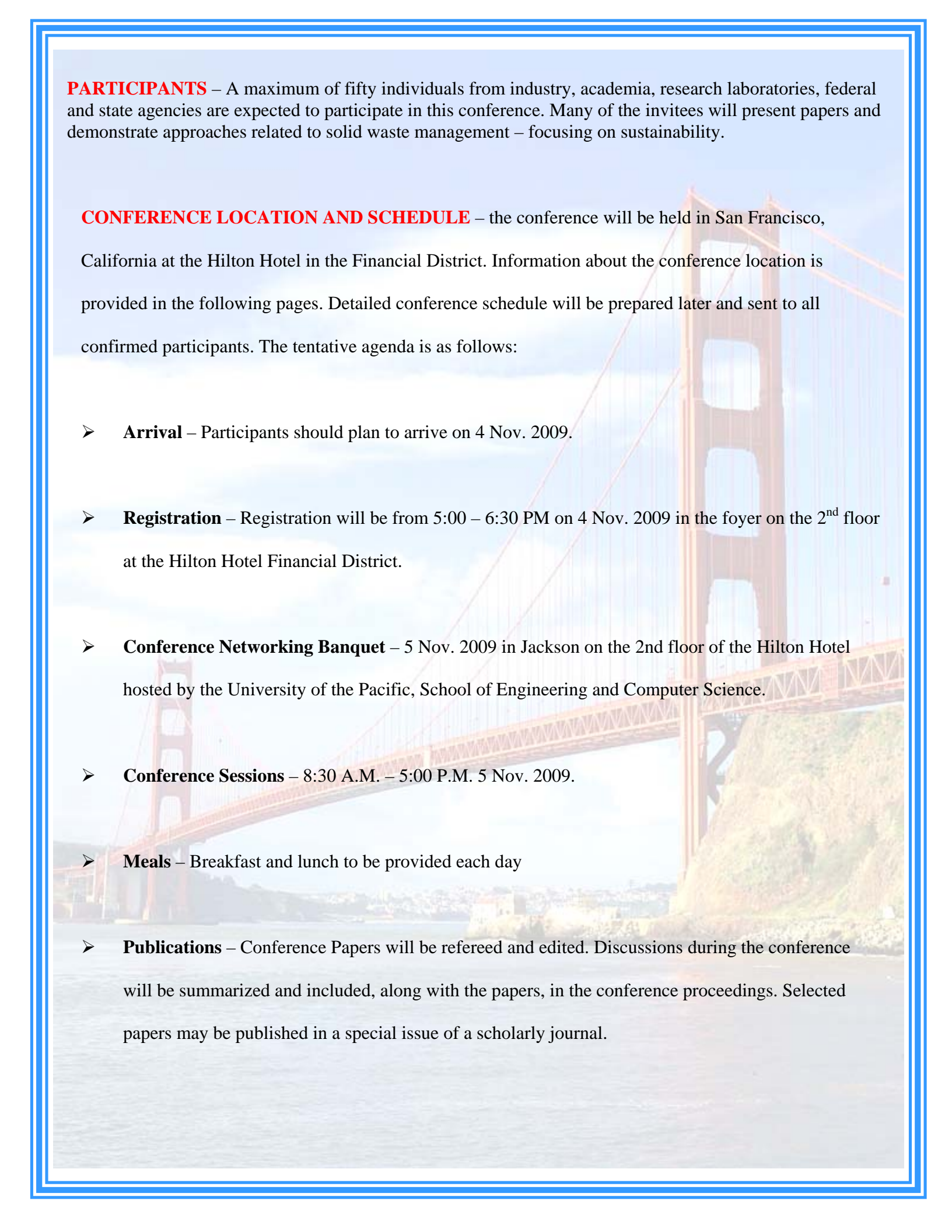


**FIBER REINFORCED POLYMER (FRP)
COMPOSITES FOR INFRASTRUCTURE APPLICATIONS**
Focusing on Innovation, Technology Implementation and Sustainability
San Francisco, California
November 4 - 6, 2009 (2-day conference)

CONFERENCE OBJECTIVES - The purpose of this conference/workshop is to facilitate the interaction of nationally and internationally recognized experts on all aspects of Fiber Reinforced Polymer (FRP) composites for infrastructure applications from material science, performance, economics, and sustainability perspectives. These different perspectives will be documented into an integrated set of proceedings that establish the state of practice and that charts future requirements for FRP composites for infrastructure applications. This conference will provide a unique opportunity for collaboration and information exchange among participants active in research and technology implementation.

Main Conference Topics

- **Application of Structural FRC Composite Materials/Systems:** facility construction that incorporates current knowledge of composite manufacturing and material behaviors in the field.
- **Fracture Mechanics and Composites:** engineering properties that describe stress-strain relationships, fatigue failures, and panel and general instability of composites.
- **Composite Materials Joining Technologies:** composite design criteria, durability, quality assurance, and long-term performance characteristics.
- **Smart Composites:** composites that have the ability to repair themselves or provide a signaling mechanism indicating repair needs and information about repair techniques.
- **Constitutive and Other Models:** analytical and experimental models that describe composite material performance and degradation.
- **Concept and Prototype Demonstrations:** examples of successful implementation of composite materials in facility construction with particular application related to navigational gates as well as heavy duty applications such as sheet piling.
- **Sustainable Materials for Infrastructure:** focusing on reducing energy consumption, green house gas emissions and other environmental impacts.
- **Economics of Composite Materials:** relative cost of composites as compared to other materials and ways of overcoming cost related challenges.
- **Unique Properties of Composites:** unique properties of composites as needed by the Services (Army, Navy and Air Force).
- **Case Studies:** successes and challenges related to use of composite materials in practice.
- **Technology Implementation:** existing lab to market mechanisms for technology transfer and related issues and challenges.
- **Sustainability Concepts:** economic environmental and long-term material use implications.



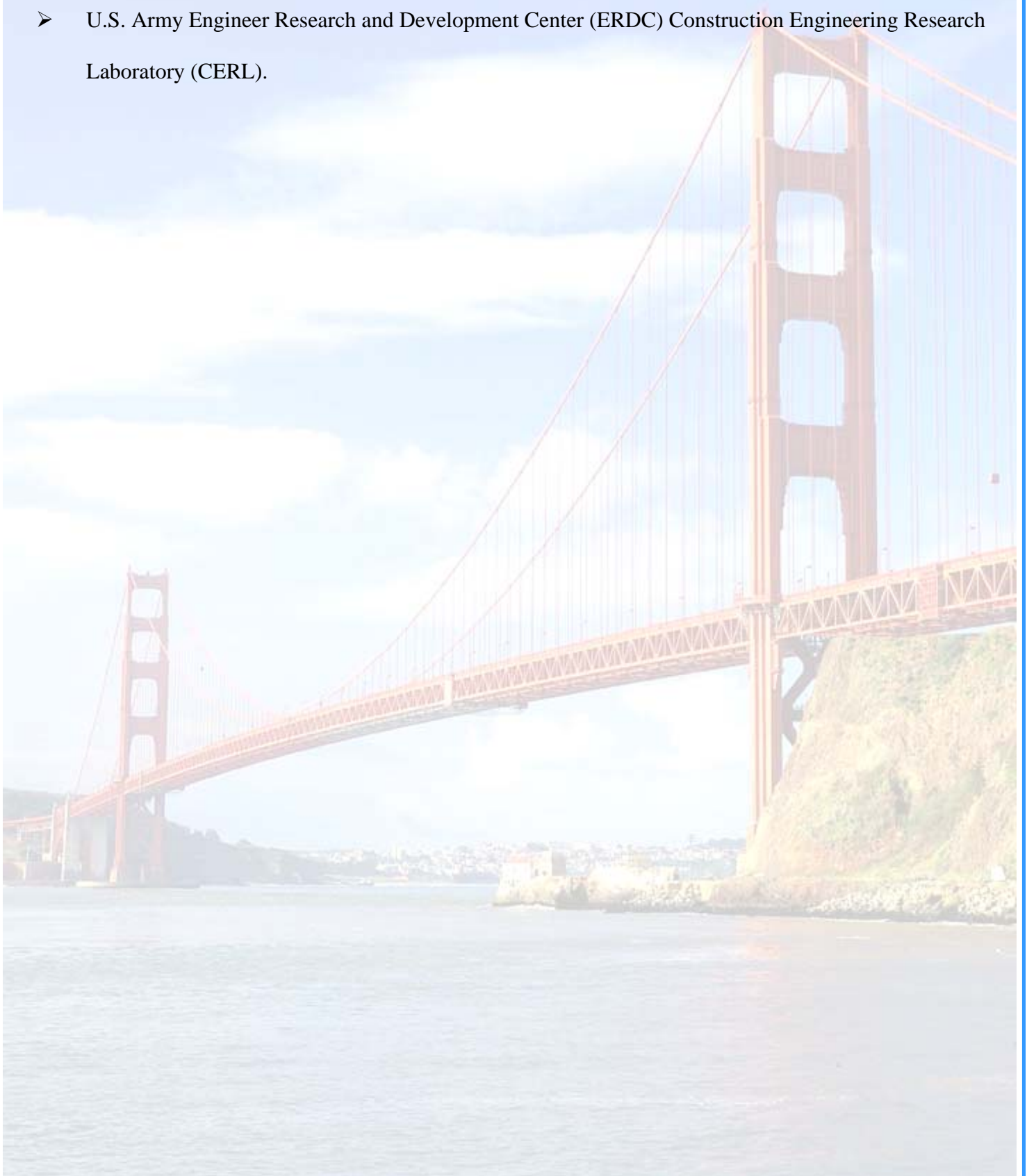
PARTICIPANTS – A maximum of fifty individuals from industry, academia, research laboratories, federal and state agencies are expected to participate in this conference. Many of the invitees will present papers and demonstrate approaches related to solid waste management – focusing on sustainability.

CONFERENCE LOCATION AND SCHEDULE – the conference will be held in San Francisco, California at the Hilton Hotel in the Financial District. Information about the conference location is provided in the following pages. Detailed conference schedule will be prepared later and sent to all confirmed participants. The tentative agenda is as follows:

- **Arrival** – Participants should plan to arrive on 4 Nov. 2009.
- **Registration** – Registration will be from 5:00 – 6:30 PM on 4 Nov. 2009 in the foyer on the 2nd floor at the Hilton Hotel Financial District.
- **Conference Networking Banquet** – 5 Nov. 2009 in Jackson on the 2nd floor of the Hilton Hotel hosted by the University of the Pacific, School of Engineering and Computer Science.
- **Conference Sessions** – 8:30 A.M. – 5:00 P.M. 5 Nov. 2009.
- **Meals** – Breakfast and lunch to be provided each day
- **Publications** – Conference Papers will be refereed and edited. Discussions during the conference will be summarized and included, along with the papers, in the conference proceedings. Selected papers may be published in a special issue of a scholarly journal.

SPONSORS

- University of the Pacific, School of Engineering and Computer Science
- U.S. Army Engineer Research and Development Center (ERDC) Construction Engineering Research Laboratory (CERL).



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Focusing on Innovation, Technology Implementation and Sustainability Conference

INFORMATION SHEET

ACCOMODATIONS

Hotel arrangements have been made at the Hilton San Francisco Hotel in the Financial District, phone: 1-800-424-8292 or visit: www.hilton.com. A block of rooms have been reserved for the conference. The negotiated room rate is \$134 for single or double occupancy, and subject to applicable state and local taxes. Daily and Valet Parking charges for guests is approximately \$54.00 per day. Other local parking is available at the Portsmouth Square Parking Garage located at 733 Kearney St. and is open 24/7. **When making reservations, please refer to the group name “FRP Conference”** this will guarantee attendees receive the negotiated room rate. **Reservations must be made by 5 Oct. 2009** to ensure the negotiated room rate; otherwise reservations will be accepted on rates available at the time of reservation.

LOCATION

The **Hilton Hotel in the San Francisco Financial District** is located in the center of the most exciting, bustling, and culturally diverse area of the city. Centered at the crossroads of the Financial District, Chinatown and North Beach, this landmark hotel soars 27 floors over the “City by the Bay,” offering stunning panoramic views of the skyline and San Francisco Bay.