

CUREE, a non-profit organization established in 1988, is devoted to the advancement of earthquake engineering research, education, and implementation.

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**Subject: Request for Statements of Interest from CUREE Members
Reporting on Research on the Golden Gate Bridge**

Deadline for submissions: May 16, 2008

How to submit: via email to Reed Helgens at CUREE, helgens@curee.org

Please include the subject line "Golden Gate Bridge Research"

Dear CUREE Member:

CUREE has been selected by the Golden Gate Bridge, Highway and Transportation District to manage the process of submitting a proposal to the National Science Foundation on "informal" (non-classroom) education, and to manage the resulting project.

The goal of the project is to develop exhibits at the site of the Bridge in San Francisco, with associated website content, which encourage the 10 million visitors who annually visit the Bridge to learn more about the structural, geotechnical, and construction engineering of this world famous work of civil engineering. This solicitation to CUREE members is in regard to an international conference that this project will organize that will present ways that the public can learn about civil engineering construction – the infrastructure the public sees and is served by everyday such as bridges, towers, dams and water systems, etc. The main audience will be public works agencies from around the country and internationally, along with science museum professionals and informal education specialists, such as those who operate visitor centers.

Within the overall conference framework will be a workshop devoted to research on the Golden Gate Bridge, with a resulting proceedings that the Bridge District can publish and disseminate. CUREE members are invited to submit Statements of Interest for either or both of the following two possible roles with regard to that workshop.

1. CURRENT OR RECENT RESEARCH ON THE BRIDGE

Researchers will write brief synopses of research they have conducted on the Golden Gate Bridge, with references to detailed reports and papers, to accompany their presentations at the workshop. Workshop participants will receive travel stipends to enable their attendance. Note that the research need not be limited to earthquake engineering.

If you are interested in this role, provide:

- a cover letter that is no more than four pages in length indicating that you are responding to the Current or Recent Research on the Golden Gate Bridge aspect of this Request for Statements of Interest, including a summary of your research and references that have been published.
- a biographical sketch that is no more than two pages in length

2. SEVEN DECADES OF RESEARCH ON THE GOLDEN GATE BRIDGE: THE HISTORICAL PERSPECTIVE

In each of the decades from the early 1930s onward, civil engineering research on the Bridge has been at the advanced edge of the engineering field. What research was conducted? What analysis and testing capabilities existed in a given era, and how did they evolve? How did research conducted on the Bridge fit into a long-term historical pattern of the development of the civil engineering field? This is a task for a CUREE member interested in the history of civil engineering who would work with Golden Gate Bridge engineering staff to research and compile this history.

Two products are intended: (1) an illustrated description in very readable form (excellent English writing skills are a requirement) for publication via the District on its website; (2) a more technically oriented and longer paper for presentation at the international conference. This task does not require previous research experience on the Bridge; the key qualification is interest in and experience with the field known broadly as history of science and technology, or more specifically the history of civil engineering. Note that the scope is not limited to earthquake engineering. Up to \$50,000 will be allocated for this task, whether it is conducted only by the individual or also with a student or students. This individual will participate in the planning of the workshop but will not be responsible for its detailed organization. There is a possibility but no guarantee that a Research Experience for Undergraduates (REU) student may be provided to assist with this task through additional NSF funding.

If you are interested in this role, provide:

- a cover letter that is no more than four pages in length indicating that you are responding to the Seven Decades of Research on the Golden Gate Bridge aspect of this Request for Statements of Interest, with a summary of your qualifications and interest with regard to this subject
- a biographical sketch that is no more than two pages in length.

Responses to this Request will be evaluated by a joint committee of CUREE and the Golden Gate Bridge District.