

Bridge Maintenance Workshop

DESCRIPTION:

This 4-day course focuses on cost-effective bridge maintenance and repair procedures performed by typical transportation agency crews. Included are step-by-step instructions for preparing for and performing maintenance and repair on common bridge elements. Bridge preservation is emphasized throughout. While engineers often attend, the material is designed for bridge crew supervisors and technicians.

OBJECTIVES:

Upon completion of the course, participants will be able to:

- Justify, develop and implement a cost-effective preservation strategy for a group of bridges.
- Understand problems related to deferred maintenance, including the bridge condition decline, more expensive reactionary maintenance activities, and unsatisfactory public relations.
- Identify maintenance or repair needs and select the best remedial strategy.
- Describe the step-by-step tasks required to accomplish proven preservation procedures on the various bridge elements.
- Identify critical members and avoid procedures that might result in damage such as field welding repairs on fracture critical tension members.
- Recognize problems that warrant specialized expertise, for example, soliciting the involvement of a qualified structural engineer when repairing structural damage.
- Collect and report bridge maintenance data necessary to properly document agency records
- Exercise effective management techniques (such as planning, scheduling, monitoring and reporting) during daily bridge maintenance operations.

TARGET AUDIENCE:

State and local bridge maintenance technicians and supervisors.

INSTRUCTOR:

Ron Purvis, PE

Mr. Purvis is a professional engineer registered with over 30 years of experience providing bridge remedial engineering services worldwide. He currently chairs the Transportation Research Board, Structures Maintenance Committee and National 1st VP of the Society of Highway Engineers. He has conducted training courses and seminars on topics related to existing bridges throughout the United States, in Europe, Asia, the Middle East and the Caribbean. He served as Principal Investigator on several published bridge related research studies for transportation agencies. He served as Vice President and firm-wide Director of Bridge Remedial Technology for an international consultant engineering firm. Mr. Purvis has published over 25 reports, papers and articles on topics related to existing bridges for transportation research organizations and professional journals.

Registration Procedure

- 1) Please contact Gail Ikeda at 956-8367, 956-8851 (FAX) or gail@eng.hawaii.edu by **Wednesday, October 27, 2004**
- 2) Attendance is limited to 45 participants, and preference is given to local government employees.
- 3) Private company participation is on a space available basis.

Cancellations

Please contact us if you must cancel your registration or if someone will be substituting for you.

Parking

Parking for the East West Center is \$4/day (total \$16). If you would like a parking pass please contact us by October 27, 2004. Make checks payable to **Research Corporation of the University of Hawaii (RCUH)**. Mail checks to:

Hawaii LTAP

University of Hawaii
Department of Civil Engineering
2540 Dole Street, Holmes Hall #383
Honolulu, Hawaii 96822
Attn: Gail Ikeda

Bridge Maintenance Workshop

November 16-19, 2004

East West Center, Jefferson Hall,
Asia Room
1777 East West Road
8:30 a.m. – 5:00 p.m.

Workshop sponsored by the
**Hawaii State Department of
Transportation**
and the
**Hawaii Local Technical Assistance
Program**
in cooperation with the
*University of Hawaii's Department of Civil Engineering
and the Federal Highway Administration*

Hawaii Local Technical Assistance Program

University of Hawaii at Manoa
Department of Civil and Environmental Engineering
2540 Dole Street, Holmes Hall #383
Honolulu, Hawaii 96822

