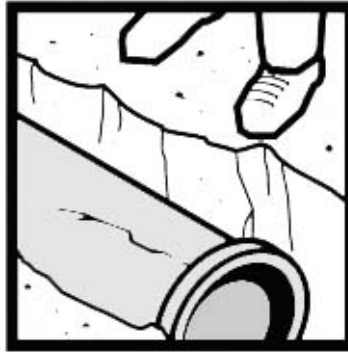


DRAINAGE: THE KEY TO ROADS THAT LAST



DESCRIPTION:

This course addresses problems caused by improper drainage and some of the ways to solve those problems, includes types of drainage structures (size, shapes, and materials, proper culvert installation, and maintenance of drainage facilities.

OBJECTIVES:

Participants will learn:

- Proper culvert design
- Proper bedding and backfilling
- Inspection of culverts, ditches and bridges
- Proper maintenance of culverts and bridges

TARGET AUDIENCE:

Maintenance and construction personnel as well as supervisors and management system operators

INSTRUCTOR:

David Grouchy

David Grouchy has worked as an environmental and civil engineer, land and hydrographic surveyor for private firms, construction companies, cities, counties, state and federal government. He was formerly Director of the Louisiana Local Technical Assistance Program.

Registration Procedure

- 1) Please contact Gail Ikeda at 956-8367, 956-8851 (FAX) or gail@eng.hawaii.edu by **Friday, September 9, 2005**
- 2) Attendance is limited to 60 participants, and preference is given to local government employees.
- 3) Private company participation is on a space available basis at a fee of \$25.

Cancellations

Please contact us if you must cancel your registration or if someone will be substituting for you. Refunds will be made if notice of cancellations is received at least 3 workdays prior to the workshop date.

Parking

Parking for the East West Center is \$4/day. If you would like to receive a parking pass, please contact us by September 9, 2005. Make checks payable to Research Corporation of the University of Hawaii (RCUH) and mail to the address below. Parking fees may be combined with payment of registration fees.

Hawaii LTAP
University of Hawaii
Dept. of Civil & Environmental Engineering
2540 Dole Street, Holmes 383
Honolulu, HI 96822
Attn: Gail Ikeda

DRAINAGE: THE KEY TO ROADS THAT LAST

September 19, 2005

East-West Center, Jefferson Hall
Asia Room
1777 East-West Road
8:30 a.m. – 4:30 p.m.

Workshop sponsored by the
**Hawaii Local Technical Assistance
Program**

in cooperation with the
*Hawaii State Department of Transportation
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 & Environmental Engineering
2540 Dole Street, Holmes Hall #383
Honolulu, Hawaii 96822

