

HAWAIIAN CONNECTIONS

THE HAWAII LOCAL TECHNICAL ASSISTANCE PROGRAM

VOLUME 8, No. 3

FALL 2006

In This Issue

- 1 Annual Superintendent/Overseers Conference
- 2 Making Work Zones Work Better Workshop
- 3 News From Our Partners
- 4 Making Work Zones (cont.) News From Our Partners (cont.)
- 5 Annual Superintendent/Overseers Conference (cont.)
- 6 Statewide Storm Water Management Program
- 7 Statewide Storm Water Management Program (cont.)
- 8 Makawao Baseyard Nominated
- 9 Free Publications
- 10 Director & Program Manager's Notes
- 11 Hawaii LTAP Activities

Please pass this on to other interested parties in your office.

ANNUAL SUPERINTENDENT/OVERSEERS CONFERENCE

By C.S. Papacostas, HLTAP

The 7th Annual Public Works Superintendent/Overseer Conference was hosted by the Kaua'i Department of Public Works, September 6-8, 2006. **Ed Renaud** took the lead in organizing the meeting in cooperation with HLTAP and **Ken Morikawa** acted as the master of ceremonies.

In his welcoming remarks, **Bryan J. Baptiste**, Kaua'i Mayor, acknowledged the vital, albeit unsung, role that those in attendance play in ensuring the safety and welfare of the public. **Donald M. Fujimoto**, County Engineer and Director of Public Works, echoed the mayor's assessment of the public works personnel's value during routine as well as emergency conditions.

As it is the normal practice at these meetings, each county highlighted aspects of their operations that would be of interest to the rest of the audience.

Speaking for the Big Island, **Stanley Nakasone** described a novel experience that involved the spot resurfacing along a 5-mile stretch of roadway in Waimea using geotextile fabric materials. The project was undertaken in-house and was specifically designed to impart on-the-job training to the county crews who had limited experience in the type and magnitude of the construction involved. Stanley noted that two equipment improvements were made by county

workers to aid the deployment of the fabric. They will, hopefully, be submitted to our annual "better mousetrap" series.

This year, the County of Maui chose to have several presenters. **Leonard Costa** from Highway Administration described a peer exchange arrangement he had with the Big Island. The genesis of this idea occurred during the 5th Annual Meeting. For one week, Leonard "shadowed" Big Island colleagues and also obtained feedback to questions he had prepared in advance. **John Prito** of the Makawao District, talked about the need to train young employees while "the job has to be done" in the face of staff losses due to retirement. The answer was in "everyone training everyone below them" Makawao-style. **James Perry** of Hana addressed the unique conditions encountered in a remote

(Continued on Page 5)



Statewide Storm Water Management Program (SSWMP) See pages 6 & 7.

MAKING WORK ZONES WORK BETTER WORKSHOP

By Robert Sun & Steven Yoshida, HDOT

With increased construction on existing routes, heavier traffic on the roadways, and work being scheduled for off-peak night hours, the potential for accidents and injuries in the work zone has become a prominent issue.

FHWA published the updated Federal Final Rule on Work Zone Safety and Mobility in September 2004. It establishes requirements and provides guidance for systematically addressing work zone safety and mobility impacts and developing strategies to help manage these impacts on all Federal-aid highway projects. Highlights of the revised Federal Work Zone Safety and Mobility Rule include:

- Requiring a policy for the systematic consideration and management of work zone impacts on all Federal-aid highway projects.
- Requiring work zone impacts to be addressed throughout the various stages of the project development and construction.
- Permitting flexibility in form of the work zone policy (i.e., it may be processes, procedures, guidance, etc.).
- Recognizing that the policy may be adjusted to accommodate the characteristics and expected work zone impacts of individual projects or classes of projects.
- Recommending that agencies institute this policy using a multi-disciplinary team and in coordination with FHWA.

- Encouraging agencies to extend the policy to non-Federal aid projects and programs.

With the implementation date for the updated Final Rule in October 2007, the timing of the workshop was very appropriate.

The FHWA sponsored workshop was held at the Sheraton on July 11 and July 12, with a QuickZone session at the University of Hawaii Donald Kim Multimedia Lab on July 13. More than 150 participants from the private and public sectors attended over the three workshop days to hear speakers from several states across the country, Canada, and HDOT share their experiences regarding the various aspects of work zone safety.

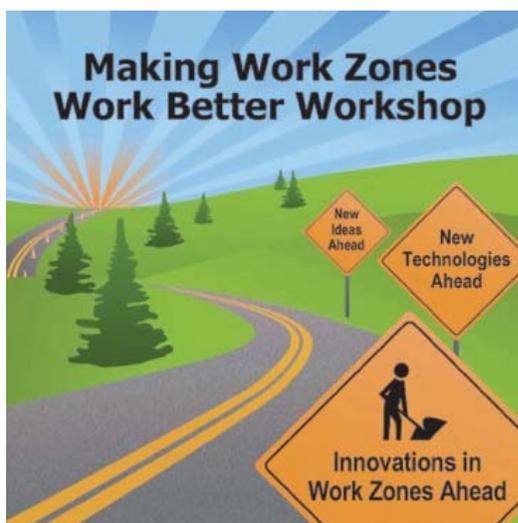
The primary goals of the workshop were to provide insight on methods to reduce construction time and minimize driver inconvenience and confusion, to present methods and technology currently available to improve the safety in the work zone, and to briefly describe Section VI of the MUTCD.

The first day, emceed by **Pratt Kinimaka**, focused on construction issues and included presentations on work zone liability, intrusion devices, the role of law enforcement in the work zone, and an exercise in creating a work zone.

Gary Choy hosted the design workshop on the second day. The agenda featured topics such as full freeway and local road closures, innovative project development and contracting, night work planning, and ITS and work zones.

The final day was dedicated to an introductory tutorial on the QuickZone analysis software. This software provided users with an easy-to-use, easy-to-learn tool for estimating the “soft cost” of traveler delay, which is the “costs” (time and financial impacts) to road users, motorists and their passengers, who must negotiate their way through a given work zone. Participants who attended this workshop were given several hands-on

(Continued on Page 4)



NEWS FROM OUR PARTNERS...

American Society of Civil Engineers



By Ron Iwamoto, ASCE Hawaii President-Elect

ELECTION OF THE FY 2007 ASCE HAWAII SECTION OFFICERS

The following slate of officers will be on this year's ballot for new officers. **Lori Fong, P.E.**, who was elected to the position of President-Elect in August 2005, will lead the Hawaii Section as President.

Nominees for the remaining Executive Committee positions are as follows:

President-Elect: **Ron Iwamoto, P.E.**

Vice-President: **Michael Hunnemann, P.E.**

Secretary: **Jeffrey Kalani, P.E.**

Treasurer: **Roger Babcock, P.E.**

Younger Member Forum President: **Lori Nishida, P.E.**

The current officers are nominated to continue in

succeeding positions: **Ron Iwamoto** and **Michael Hunnemann**.

The election of the FY 2007 ASCE Hawaii Section Officers will take place at the September Luncheon Meeting.

ASCE SEMINAR

The following seminar will be coming to Honolulu in October 2006:

Dam Breach Analysis Using the Hydrologic Engineering Center's River Analysis System, HEC-RAS, October 18-20, Radisson Waikiki Prince Kuhio Hotel.

For more information and registration, go to <http://www.asce.org/conted/seminars/>.

Cement and Concrete Products Industry of Hawaii



By Wayne Kawano, CCPI of Hawaii President

Aloha!

Congratulations to the Hawaii DOT for hosting a most successful 50th WASHTO Conference at the Hilton Hawaiian Village. Well done! **Rod Haraga, Brennon Morioka**, and the DOT staff are commended for their outstanding professional services and most personable accommodations for all attendees and exhibitors. That's the Aloha spirit! The venue was a great opportunity for our agency attendees and local guests to interact and network with representatives from the other 18 western states on transportation concerns. The key topic sessions shared the lessons learned and provided a spring board on how we can do things better!

As an extension to the conference, Hawaii LTAP and CCPI co-sponsored a concrete pavement design and construction seminar conducted by **Michael Ayers**, from the American Concrete Pavement Association. The all day workshop initially focused on the current StreetPave Design software, which incorporates traffic characteristics, material characteristics, subgrades and bases, and thickness design. The workshop

then focused on the importance of proper joint layouts and timeliness (early entry sawing) of the joints. We also reviewed UTW - Ultra Thin Whitetopping design and construction applications as well as observations shared on the CALTRANS Scan Tour on early strength concrete for early traffic openings.

For more information on the workshop or to get a copy of the StreetPave software, please contact CCPI.

Mahalo Nui Loa!



Concrete Pavement Design Seminar

MAKING WORK ZONES WORK BETTER WORKSHOP (Continued from Page 2)

projects to analyze using the software. Each of these given problems were based on actual past construction projects in the US and Canada.

Because of the planning efforts of **Clifford Chew** of FHWA and the organizational and logistical expertise of **Juli Kobayashi**, **Dr. C.S. Papacostas**, and **Gail Ikeda** of LTAP, the workshop was a success. HDOT committee members **Robert Sun**, **Steven Yoshida** and **Lance Zhai** were instrumental in developing a relevant program. In addition, special appreciation should be directed to **Steven Yoshida** and LTAP to produce the Guidelines for Temporary Traffic Control handbook, a condensed version of MUTCD Section VI which was

distributed to all attendees of the workshop. Please contact **Gail Ikeda** at 956-8367 for additional copies.



Groups work on temporary traffic control plans.

NEWS FROM OUR PARTNERS... (Continued from Page 3)

Institute of Transportation Engineers

By Greg Hiyakumoto, ITE-Hawaii President

This year, ITE had a very noteworthy event as we hosted the ITE District 6 Annual Meeting.

Chairperson, **Cathy Leong**, and her team did a wonderful job. The event was very successful with the largest turn-out ever for a district conference.

This is an excerpt taken from the July-August 2006 Westernite newsletter:

"Thank you to the over 550 ITE members, friends, and families that joined us at the 2006 District 6 Annual Meeting in Honolulu, Hawaii, June 25-28, to experience life a little 'Hawaiian Style.' We were happy to welcome attendees from each of the thirteen states in District 6, as well as other states across the country, and Guam, American Samoa, Saipan, and Canada. The turnout for the Annual Meeting far exceeded our expectations with over 380 registered attendees including over 60 students and faculty, and over 80 individuals representing nearly 40 vendor companies.



Due to the extraordinary response to our meeting, we were able to offer a quality technical program that also included two training sessions and two tours. We were pleased to discover that attendance at the technical sessions increased rather than dwindled over the meeting's three days with some of the most highly attended sessions occurring on Wednesday!...

... The tremendous success of this Annual Meeting was primarily due to the dedication and hard work of the Local Arrangements Committee and the support of the Hawaii Section Board and members. The Hawaii Section may be one of the smallest sections in the District, but every member of our section contributed to ensure that this was one of the most successful Annual Meetings ever. Planning a District 6 Annual Meeting was an enormous undertaking for us, but we are a stronger section for having done it! We are looking forward to the next Annual Meeting and hope to see you all in Portland."

ANNUAL SUPERINTENDENT/OVERSEERS CONFERENCE *(Continued from Page 1)*

district. Again, a willingness to cooperate (“Alu Like” in Hawaiian) was the secret to their success. **Edwin Bonnel** described maintenance activities at flood control facilities in Lahaina. **Steve Arce** explained how recycled cold plane asphalt concrete has been used to advantage in Molokai, whereas **Edwin Emoto** of the Wailuku District described his experience with chain link fencing materials.

The City & County of Honolulu concentrated on National Pollutant Discharge Elimination System (NPDES) concerns relating to storm drain maintenance. **Melvin Miyata** introduced a short video produced by Wai`anae High School students featuring **John Nigro** on his daily rounds. In person, John emphasized the importance of testing various marketed devices to ensure that they are physically compatible with local drain designs. **Chad Maio** contrasted manual and automated maintenance practices and announced the county’s pending inspection of vector trucks for possible purchase. It was agreed that the other counties should take advantage of the opportunity by sending personnel to the forthcoming technology demonstrations in Honolulu.

Kaua`i arranged for a field trip to the Morita Dam that nearly broke following the breach of the Ka Loko Dam upstream in March. As a safety precaution, the Army Corps of Engineers dug a channel to completely drain the reservoir behind the dam, revealing the lift layers that made up the earthen structure. **Lincoln Gayagas** who oversaw this operation was at hand to answer questions.

Also from Kaua`i, **Layde H. Martin**, Deputy County

Engineer and attorney by profession, very effectively led a discussion on liability and risk management. Using the case study approach she alternated between the likely plaintiff’s case and the county’s case. She ably illustrated issues relating to duty (“knew or should have known”), breach of duty and other aspects and emphasized the need to have an appropriately reviewed written systematic plan and the importance of documentation and record keeping.

Between presentations, **Jiro Sumada**, Deputy Director of Public Works for the County of Hawai`i, very skillfully led the group through a series of exercises and panel discussions that addressed effective communications, dealing with upset customers, and succession planning and training the next group of superintendents and overseers.

Daniel Meyers of the U.S. Army Corp of Engineers discussed a forthcoming national levee database mandated as a result of the effects of Hurricane Katrina in the Gulf Coast last year and advised of the upcoming levee certification and flood insurance program that will require comprehensive levee inspections.

Following his comments HLTAP Director **C. S. Papacostas** and Program Manager **Juli Kobayashi** presented this year’s better mousetrap awards. **Charlie Gomes** of Hawai`i won a merit award for his “Speed Hump Screed” and **Edwin Emoto** of Maui received the grand prize for his “Hooded Blinker and Remover” devices.



Kaua`i Mayor, **Bryan J. Baptiste** welcomes everyone to the conference.



This year’s conference host, Kaua`i County.



Edwin Emoto receives the 2006 Better Mousetrap Grand Prize Award.

STATEWIDE STORM WATER MA

By Brennon T. Morioka, Ph.D., P.E., HDOT Deputy Director



PROTECT
OUR
WATER
MĀLAMA I KA WAI
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION

HDOT Highways has embarked on a proactive comprehensive Statewide Storm Water Management Program (SSWMP). This initiative is being taken to comply with our National Pollutant Discharge Elimination Systems (NPDES) Permit for the Oahu municipal separate storm sewer system (Oahu MS4), and the mandates of a Consent Decree due to non-compliance with previous NPDES permit requirements. The Oahu MS4 qualifies as a “large municipal separate storm sewer system” since it services a population greater than 100,000. The Oahu MS4 is therefore, subject to permitting requirements under the National Pollutant Discharge Elimination System (NPDES) Program for storm water discharges. The program is designed to reduce, to the maximum extent practicable, the amount of storm water containing pollutants from entering and ultimately discharging from the HDOT Highways MS4 into the streams, rivers and ocean that we all enjoy.

The Highways Division has made storm water management a priority and we will do our part in keeping Hawaii’s waters clean. **Bob Shin**, as program leader, and a host of volunteers from our Oahu District Office oversee this program. In December 2005, Parsons Brinckerhoff (PB), was hired by HDOT Highways to assist in the development and implementation of the program. PB’s Program Manager, **Richard Dahilig**, and Deputy Program Manager, **Larissa Sato**, the PB project team and their subconsultants are assisting HDOT in striving to make the HDOT Highways SSWMP one of the best in the country.

Due to the recent heavy rains and flooding we experienced this past February and March, which resulted in the overflow

of raw sewage into the Ala Wai Canal, the public is well aware of the importance of maintaining our sanitary sewage system. However, unlike sanitary sewage that is treated prior to being discharged into the ocean, storm water is generally discharged untreated into State waters such as streams, coastal waters and drainage ditches. Storm water runoff often contains pollutants, such as oil, debris and sediments, which adversely affects the quality of our State waters.

To address storm water pollution associated with operating the Oahu MS4 and the Division’s baseyards and maintenance facilities, the Highways Division has refined its Oahu Storm Water Management Program Plan (Oahu SWMP Plan). The Oahu SWMP Plan defines actions that are or will be taken to meet the MS4 NPDES permit and Consent Decree requirements. It establishes a manageable and comprehensive program that encompasses all HDOT Highways activities and functional units that have a relationship with the Oahu MS4. The Oahu SWMP Plan includes program goals that lead to water quality improvement, and plans of action for programs to meet these goals.

The Oahu SWMP Plan consists of several programs focused on the various aspects of HDOT Highways activities, as well as an asset management system designed to keep track of all activities under the SSWMP:

- A comprehensive Asset Management System (AMS) that will allow for the efficient and effective management of the various program components through computerized processes and solutions. It will be supported by geographic information system (GIS) capabilities with one of the primary goals being the development of a GIS based mapping and inventory of HDOT Highways’ storm drain system.
- The Illicit Discharge Detection and Elimination Program is designed to prevent, detect, and remove illicit discharges and illegal connections to the Oahu MS4 from properties adjacent to HDOT Highways properties and rights-of-way.
- The Construction Site Runoff Control Program ensures that construction projects have the proper storm water approvals, permits, and implementation of appropriate Best Management Practices (BMPs). The aim is to reduce pollution generated by highway construction activities into the Oahu MS4.
- The Post-Construction Storm Water Management in New

MANAGEMENT PROGRAM (SSWMP)

Development and Redevelopment Program is for projects that meet certain criteria, which determine whether or not a project must incorporate permanent BMPs into its design.

- The Debris Control Program provides the framework to manage HDOT Highways staff and service contractors responsible for sweeping roadways, and inspecting and cleaning storm drains.
- The Chemical Applications Program consists mostly of the training of HDOT staff and landscaping contractors. This program will help to reduce the amount of pollutants entering the Oahu MS4 through proper storage and application of fertilizers, herbicides, and pesticides.
- The Erosion Control Program specifically targets erosional areas on Oahu and identifies erosion control measures to address them. Remediation of ten high priority erosional sites will soon be under construction. Also, islandwide erosional sites are currently being prioritized for additional remediation work in the near future.
- The Maintenance Facilities Program encompasses all eight HDOT Highways baseyard facilities on Oahu. Specific information applicable to the daily operations of each facility including good-housekeeping practices and pollution control measures are provided in Site-Specific Storm Water Pollution Control Plans. These plans serve as a storm water management guide for each facility.
- The Industrial and Commercial Activities Discharge Management Program is designed to address pollutant discharges into the Oahu MS4 that originate from industrial and commercial sites. This program ensures that HDOT Highways will be able to monitor and inspect as necessary those parcels, which are or could contribute pollutants to the Oahu MS4.
- The Water Quality Monitoring Program involves the monitoring of waterbodies to assess the characteristics of highway runoff in order to evaluate the potential impact to water quality.

HDOT is developing a training and public education plan designed to increase storm water awareness. Training presented to HDOT personnel will provide our staff with a broad knowledge of storm water issues and how their jobs

directly impact the quality of Oahu's waters and, as a result, the lives of Hawaii's people. Training was held in December 2005 for all HDOT personnel involved in activities related to storm water. Over 200 HDOT personnel in all four districts (Oahu, Kauai, Hawaii, and Maui) on six islands attended these training sessions.

In addition, several informational meetings were held in January 2006 to train HDOT design staff and consultants on the new criteria and requirements for permanent BMPs applicable to HDOT projects.

As a result of the Consent Decree, Supplemental Environmental Projects are also required of HDOT. One of these is an Erosion and Sediment Control Workshop for Construction Contractors and Design Consultants. The first of these workshops was held on April 15, 2006 at the Honolulu Country Club for Construction Contractors.

Future workshops for Construction Contractors are planned for Kona, Hilo, and Leeward Oahu on September 19, 20, and 21, 2006, respectively. Workshops for Construction Contractors for the islands of Maui and Kauai are yet to be scheduled and workshops for Design Consultants will be provided by April 2006. If you would like more information on these workshops, please contact **Michelle Nelson** at 566-2251.



HDOT Highways plans to construct dewatering facilities, which will be an integral part of our proactive program to keep the highway drainage network operating to its full design capacity. Waste materials removed from the storm drain system are normally very wet and cannot be disposed of at a landfill in this condition. A dewatering facility is a place where waste material removed from the storm drain system is dried. Dewatering facilities are proposed for the Waianae Baseyard (mauka of Farrington Highway across from the Waianae Fire Station); and the Pearl City Baseyard (under the Pearl City H-1 Viaduct off of 2nd Street). These facilities are currently in the early stages of the environmental review process and a design consultant has already been procured.

The Oahu SWMP Plan includes many other tasks that our team will be working on in the years to come that will become a part of our routine practices in order to ensure that HDOT will be a committed stakeholder in the preservation of our environment and a responsible steward of Hawaii's quality of life.

MAKAWAO BASEYARD NOMINATED

By Brian Hashiro, County of Maui

The County of Maui, Highways Division, Makawao District Baseyard, was nominated for the County of Maui's 2006 Team of the Year Recognition by the Department of Public Works and Environmental Management.

Team members displayed outstanding and consistent program successes in planning, setting objectives, and/or organizing their work. As an example, we quote from the nomination form:

"When the Cultural Resources Commission voted down the County Engineering Division's request to replace the wooden Peahi Road Bridge with a modern reinforced concrete bridge, it was left up to the Makawao District to replace the wooden bridge. The team planned how they would go about replacing the bridge using rebar, concrete, PVC pipe, lumber, etc. Although the crew did not have masons, carpenters, or iron workers, everyone chipped in with their thoughts and labor to construct a new bridge. They planned and constructed a reinforced concrete center pier (in the form of a boat) as a foundation for the bridge supports. Mechanics and welders used their knowledge to form the reinforcing steel used in the reinforced concrete pier. They used PVC pipe for the bridge supports and poured concrete in the pipe for added strength. Equipment Operators and Laborers used their knowledge of home carpentry to construct the wooden structure for the bridge platform. They created railings for the bridge and applied a non-slip surface to the bridge decking. They used their knowledge of working with asphalt concrete to improve the approaches to the bridge. They used their knowledge of cutting down and clearing the surrounding trees for improved visibility and to improve

the otherwise wet, humid conditions around the bridge that would have contributed to faster deterioration of the wood. The work done by the Makawao crew saved the County a substantial sum of money that would have been needed to construct a reinforced concrete bridge. The replacement of the bridge allowed area residents access to both sides of Peahi Road without having to make a circuitous trip around neighboring roads."

The crew has an attitude of helpfulness and is willing to set aside job titles and do what is necessary to get the job done. They take tremendous satisfaction with what they do and leave a legacy of work, such as the Peahi Road Bridge, to the County.

The members of the Makawao District Baseyard are:

John Prito - Public Works District Supervisor II

Wilfred Albiar, Jr.

Guy Arakawa

Arthur Aveiro

Robert Barreras

Leon Burgos

Peter Castro

Brian Chun

Jordan Costa

Lawrence DeMello, Sr.

Jeffery DeRego

Anthony Freitas

Kenny Gale

Louis Gomes

Shelby Gomes

Mathew Gouveia

Collette Kalawe

Jeffery Kele

Patrick Medeiros

James Mendes

Patricia Murayama

Harold Otani

Todd Purdy

Carlos Rafael

Russell Rezentes

Eliot Rodrigues

Patrick Tavares

Randal Tavares

Morris Tianio

Monet Viela

Henry Vierra, Jr.

Lester Yamamoto



County of Maui Makawao District Baseyard

FREE PUBLICATIONS

1. **TRR-1652 Volume 1** - Seventh International Conference on Low-Volume Roads 1999 - Volume 1
2. **TRR-1652 Volume 2** - Seventh International Conference on Low-Volume Roads 1999 - Volume 2
3. **NCHRP-Synthesis-260 (1998)** - Thin-Surfaced Pavements
4. **NCHRP-Synthesis-250 (1998)** - Highway-Rail Grade Crossing Surfaces
5. **NCHRP-Synthesis-247 (1997)** - Stabilization of Existing Subgrades to Improve Constructibility During Interstate Pavement Reconstruction
6. **NCHRP-Synthesis-238 (1997)** - Performance Measurement in State Departments of Transportation
7. **NCHRP-Report-405 (1998)** - Aggregate Tests Related to Asphalt Concrete Performance in Pavements
8. **NCHRP-Synthesis-255 (1998)** - Ground Penetrating Radar for Evaluating Subsurface Conditions for Transportation Facilities
9. **NCHRP-Synthesis-245 (1997)** - Traffic Signal Control Systems Maintenance Management Practices
10. **NCHRP-Report-427 (1990)** - Implementation Plan for Automating Highway-Materials Testing
11. **NCHRP-Report-428 (1999)** - Guidebook to Highway Contracting for Innovation: The Role of Procurement and Contracting Approaches in Facilitating the Implementation of Research Findings
12. **NCHRP-Report-409 (1998)** - Quality Control and Acceptance of Superpave-Designed Hot Mix Asphalt
13. **NCHRP-Synthesis-257 (1998)** - Maintenance Issues and Alternate Corrosion Protection Methods for Exposed Bridge Steel
14. **NCHRP-Synthesis-284 (2000)** - Performance Survey on Open-Graded Friction Course Mixes
15. **NCHRP-Report-392 (1997)** - Pavement Marking Materials: Assessing Environment-Friendly Performance
16. **NCHRP-Report-436 (1999)** - Guidance for Communicating the Economic Impacts of Transportation Investments
17. **TCRP-Report-56 (1999)** - Integrating School Bus and Public Transportation Services in Non-Urban Communities
18. **SHRP-A-404 (1994)** - Fatigue Response of Asphalt-Aggregate Mixes
19. **NCHRP-Synthesis-264 (1998)** - Modern Roundabout Practice in the United States
20. **NCHRP-Report-407 (1998)** - Rapid Replacement of Bridge Decks

**We are cleaning and reorganizing the Transportation Library!
Please take the time to review this list. Any remaining copies will
be discarded by DECEMBER 2006.**

Hawaii LTAP Transportation Library

The Hawaii Local Technical Assistance Program Library is located in Holmes Hall 143A at the University of Hawaii. The library houses over 10,000 transportation-related technical reference materials. Informational and workshop videos may also be found in the library. Reference materials and videos are available to the public and may be borrowed or copied.

Database of all materials may be found on the web at:

Videos -
<http://hltap.eng.hawaii.edu/video.html>

Publications -
www.eng.hawaii.edu/~tlib

Website:
<http://hltap.eng.hawaii.edu/>

For more information, please contact us at 956-8719.



Director's Note

by C.S. Papacostas



This is the time of year when I usually rant and rave or, to use a more dignified choice of words, to express my enthusiasm about the great success of our Annual Superintendent /Overseer Conference (see P. 1).

I am glad to see this meeting being sustained over the years and I truly believe that this is a very valuable venue for the superintendents and overseers to learn from each other and to address issues that enhance the health, safety and welfare of the people of Hawai'i.

As usual, there was a mixture of veteran participants and a number of first-time attendees. This imparted continuity on one hand and infused new perspectives on the other. By now, the professional `ohana that binds this group together has evolved into a network of contacts that operates throughout the year, not only during the conference.

Peer exchange is a new development that promises to offer additional benefits to the various county Public Works Departments. The genesis of this idea occurred during the 5th Annual Meeting and we at HLTAP would like to encourage these and similar exchanges if they are well thought out and well planned.

An invitation to send representatives to a forthcoming technology demonstration of vector trucks in Honolulu is another possible example that makes sense, considering the potential cost savings that would result by not having the activity repeated on each island.

The presentation by the U. S. Army Corps of Engineers included the upcoming inspection of levees throughout the nation and the reconfiguration of flood zone boundaries. This major undertaking will take some time to complete and will require the deployment of significant resources to accomplish.

*Congratulations to **Edwin Emoto** of Maui and **Charlie Gomes** of the Big Island for earning this year's "Better Mousetrap" awards.*

Program Manager's Note

by Juli Kobayashi



The Hawaii LTAP along with the Hawaii Department of Transportation's Office of Civil Rights and the Federal Highway Administration hosted a Construction Career Day (CCD) Presentation on September 22, 2006 at the East West Center. The presentation was well received with representatives from the Department of Education, the General Contractors Association, the College of Engineering, School of Architecture, Honolulu Community College, the National Association of Women in Construction and the different trade organizations to name a few.

*We were extremely fortunate to have one of the pioneers of CCD, **Humberto Martinez** join us with an informative discussion on the history of CCD, the program's core values, as well as how to plan a CCD event. We also had a wonderful presentation by **Dee Hadfield** and **Keri Shoemaker** from the Utah LTAP Center who hosted three CCD events in Utah with over 5,500 school children participating.*



Utah LTAP Center's Construction Career Days Magazine.

We will be forming planning committees in the next few months to plan a CCD event for Hawaii in 2007. If you are interested in learning more about the CCD event for Hawaii or becoming a member of one of our committees, please contact me at 956-9006 or juli@hawaii.edu.

*Hawaiian Connections features scenic pictures from various locations in Hawaii.

In this issue, we are featuring the Island of Hawai'i. On the cover is **Waipio Valley** also referred to as "Valley of the Kings" because it was once known to be a home to many rulers in old Hawai'i. Waipi'o in the Hawaiian language means "curved water". On the back is **Akaka Falls**, a beautiful 420 foot waterfall located on the Hilo-Hamaku coast.

HAWAII LTAP ACTIVITIES

Compiled by Gail Ikeda, Hawaii LTAP

Keith Trimels of the IDT Group, Wyoming started off our third quarter with his “Low-Cost Roadway Safety Improvements” workshop in early July. The one day workshop featured an overview of highway safety issues with an emphasis on “do it now” solutions. Participants learned a host of countermeasures to address high crash locations along with their associated crash reduction factors as identified in the “AASHTO Strategic Highway Safety Plan – NCHRP 500 Guidebooks.”

Also in July were the “Making Work Zones Work Better for Construction and Design Personnel” and “QuickZone” workshops. The two workshops were a combined effort of FHWA, the HDOT and HLTAP. For a detailed summary of the workshop see pages 2 & 4.

We partnered with HAPI to bring instructors **Robert Bernhard** and **Robert Otto Rasmussen** to conduct the “Tire-Pavement Noise 101” workshop. This workshop focused on the fundamentals of noise and pavements. It helped participants understand tire-pavement noise and how it fit into the bigger picture. They also examined current practices for designing and constructing quieter pavements.

In August, we collaborated with CCPI and invited **Michael Ayers** to share his expertise for the “Design of Concrete Pavements for Streets and Roads” workshop. He discussed key factors in the design process for concrete streets and roads such as geometric design, concrete quality and jointing.

In the month of September we hosted three environmental workshops. The first two workshops provided a basic overview of national environmental acts: the “National Environmental Policy Act (NEPA) and the Transportation Decision Making Process” and the “National Historic Preservation Act (Section 106)” workshops. The two day NEPA workshop was designed to develop awareness of NEPA principles and focus on the essential elements of the act as they apply to the decision making process and the fostering of stewardship and environmental streamlining in transportation project development. The second one day workshop introduced the subject of historic preservation law and compliance to those who carry out and are affected by transportation projects. There also was special emphasis placed on providing a balance among historic preservation and project delivery activities, the integration of various compliance processes, and the importance of flexibility and creativity.

Along with **Todd Nishioka** of the HDOT we arranged an “Environmental Permitting Guideline Manual Training”. The HDOT’s EPM provides background information on and instructions to navigate the regulatory processes commonly encountered in the planning and design of projects. **David Atkins** of Parsons Brinckerhoff focused on the main components of the manual and demonstrated examples of how to use it.

For more information on any of these workshops please contact us at (808) 956-9006.

What did YOU think?

Editor’s Note: In this feature, we quote our associates and stakeholders about our activities. This selection, highlights the 7th Annual Superintendent/Overseers Conference held in September on Kauai.

“...It is by far the most productive and rewarding event for our Highway Maintenance staff to share information with their peers on ways they can be more effective in accomplishing their mission. LTAP has been the key link in making this conference as successful as it has been and we appreciate your efforts to help us.

From their first gathering on Maui, the conference has continually been refined through the professional guidance of you and your staff. Not only are there great discussions going on, the information sharing is done in a manner that helps each participant retain the information better

and easily adapt it to their own operation. Not everyone learns through lecture format, with your help the presentations during this peer exchange have become more meaningful for everyone that attends....”

Submitted by : **Jiro Sumada**, Deputy Director, County of Hawaii, Department of Public Works.



John Prito and Jiro Sumada engage in effective communication.



HAWAII LOCAL TECHNICAL ASSISTANCE PROGRAM

Executive Board

Steven Ege
Engineer
Hawaii Department of Transportation
Materials Testing & Research Branch
2530 Likelike Highway
Honolulu, HI 96819
Tel: (808) 832-3556
Fax: (808) 832-3407

Wayne Kaneshiro
Safety Engineer
FHWA Hawaii Division
P.O. Box 50206
Honolulu, HI 96850
Tel: (808) 541-2700
Fax: (808) 541-2704

C.S. Papacostas
Director, Hawaii LTAP
Department of Civil and Environmental
Engineering
University of Hawaii at Manoa
2540 Dole Street - Holmes Hall 383
Honolulu, HI 96822
Tel: (808) 956-6538
Fax: (808) 956-5014

Advisory Board

A. Ricardo Archilla
Assistant Professor
Department of Civil and Environmental
Engineering
University of Hawaii at Manoa
2540 Dole Street
Honolulu, HI 96822

Steven Ege
Engineer
Hawaii Department of Transportation
Materials Testing & Research Branch
2530 Likelike Highway
Honolulu, HI 96819

Wayne Kaneshiro
Safety Engineer
FHWA Hawaii Division
P.O. Box 50206
Honolulu, HI 96850

Galen Kuba
Engineering Division Chief
County of Hawaii
Department of Public Works
101 Pauahi Street, Suite 7
Hilo, HI 96720

Wallace Kudo
Chief, Engineering Division
County of Kauai
Department of Public Works
4444 Rice Street
Lihue, HI 96766

Larry Leopoldi
Chief, Division of Road Maintenance
Department of Facility Maintenance
City & County of Honolulu
99-999 Iwaena Street
Aiea, HI 96701

Gordon Lum
Executive Director
Oahu Metropolitan Planning
Organization (OMPO)
Ocean View Center
707 Richards Street, Suite 200
Honolulu, HI 96813

R. Paul Won
Chief, Traffic Engineering Division
City & County of Honolulu
Department of Transportation Services
650 South King Street
Honolulu, HI 96813

Cary Yamashita
Engineering Division Chief
County of Maui
Department of Public Works
300 South High Street
Wailuku, HI 96793

Hawaii LTAP Staff

Director: C.S. Papacostas
Program Manager: Juli Kobayashi

Program Assistant: Gail Ikeda
IT Specialist: Thong Lien

Training Associate: Les Imada
Student Assistants: Keoni Wasano, Kevin Kuba, Kristine Miyasato

The Hawaii Local Technical Assistance (LTAP) is a cooperative program of the University of Hawaii Department of Civil and Environmental Engineering, the Hawaii Department of Transportation, Highway Division, State of Hawaii and the U.S. Department of Transportation Federal Highway Administration, Hawaii. The LTAP program provides technical assistance and training programs to local transportation related agencies and companies in order to assist these organizations in providing cost-effective improvements for the nation's highways, roads and bridges. Our office is located at:

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

*Please contact:
C.S. Papacostas, Director
Tel: (808) 956-6538
Fax: (808) 956-5014
E-mail: csp@eng.hawaii.edu
or
Juli Kobayashi, Program Manager
Tel: (808) 956-9006
Fax: (808) 956-8851
E-mail: juli@eng.hawaii.edu*

*Website:
<http://www.eng.hawaii.edu/~hltap/>*

The contents of this newsletter do not necessarily reflect the official views or policies of the HDOT, FHWA or the University of Hawaii. The newsletter is intended to convey useful information to the local highway and transportation personnel. Any references to commercial products or organizations are included only for informational purposes and are not intended as endorsements by the Hawaii LTAP.

Hawaii Local Technical Assistance Program
Department of Civil and Environmental Engineering
University of Hawaii at Manoa
2540 Dole Street - Holmes Hall 383
Honolulu, Hawaii 96822

PRSRST STD
U.S. POSTAGE
PAID
HONOLULU, HI.
PERMIT NO. 278