California Pavement Preservation (CP²) Center

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Western States Regional In-Place Recycling Conference
Ontario, CA
September 13, 2012
Caltrans established CP² Center on July 1, 2006
Center task orders started January 2007 and were renewed in 2010
Partnership with Caltrans, PPTG, and others
With State and local budgets declining, more focus on preservation treatments

2011 RHMA-G Warm Mix on I-5
Near Dunnigan, CA
Center’s Goals/Services

- Be a credible “3rd party” for Caltrans, local agencies and industry
- Evaluate new products and innovations
- Partner in conducting research and implementing practical findings
- Promote appropriate pavement preservation tools (surface treatments, overlays, recycling)
- Assist with forensic pavement studies
CENTER ORGANIZATION

- Director: Dr. Ding Cheng
- Administrative Assistant
- Program Manager
  - Training and Staff Development
  - Technical Assistance
  - Research and Innovation
  - Promotion of Pavement Preservation

Full staff roster on CP² website.
- Provides the seed money for the center
- Provides direction on the operation of the center
- Identifies many of the work elements for the center
- Reviews the work of the center

CALTRANS
Partnership between Caltrans, industry, agencies and academia

Provides advice and technical oversight for the Center

Helps identify work elements for the Center

Provides feedback on the Center’s operations
INDUSTRY

- Assists the Center with instruction
- Provides grants for equipment and scholarships
- Facilitates practical research (lab and field)
- Provides opportunities for internships
FACILITIES – CURRENT & PLANNED

- Center is located at the University campus Chico
- Concrete labs are being updated using industry funds
- Asphalt lab is being developed
- Both labs will eventually co-exist in one facility

Managing our investments is important and big business
Asphalt Lab Capabilities

Hamburg Test

BBR Test

DSR Test

Gyratory Compactor
Activities from 2010 to Present

- **New contract issued in 2010 and will end in May 2013**

- **Efforts now involve 4 primary tasks**

CP² Center 35 Main Street, Suite 205
Chico, CA 95929-0603
Task 1. Training and Education

- Updating chapters of Caltrans’ Maintenance Manual (MTAG)
- Assisting with the annual conference
- Conducting workshops
Task 2 Monitoring “Innovation” Projects

- Warm rubber mix (RHMA) and chip seals
  - D3 I-5 Williams
  - D3 I-5 Elk Grove
  - D9 SR 203 Mono County
  - D6 AR Chip Seals
- In place pavement recycling (HIR) – D2 SR 299
- REAS – D11
- Scrub Seals – D9
Task 3 Technical Assistance

- PPTG support
- Fog and rejuvenating seals
- Rubberized chip seals
- DBR using polyester backfill – SR 50 Sacramento
Task 4. Promotion of Pavement Preservation

- Newsletters
- Tech briefs
- Fact sheets
- Website
  - PP Database
  - Innovation Database
- Participation in conferences
Other Clients

- FHWA
- NCHRP
- Alaska DOT&PF
- CalRecycle
- Industry
- Local Agencies
Primary Contact

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- Keeping good roads good -
Alaska Pavement Preservation Database and Treatment Selection Program

- Standardizes pavement preservation strategies in Alaska
- Stores the pavement performance related information
- Integrated Google Map function
- Multiple pavement condition survey results
- Treatment strategy selection and life cycle cost analysis
- Knowledge could be used to improve Caltrans programs