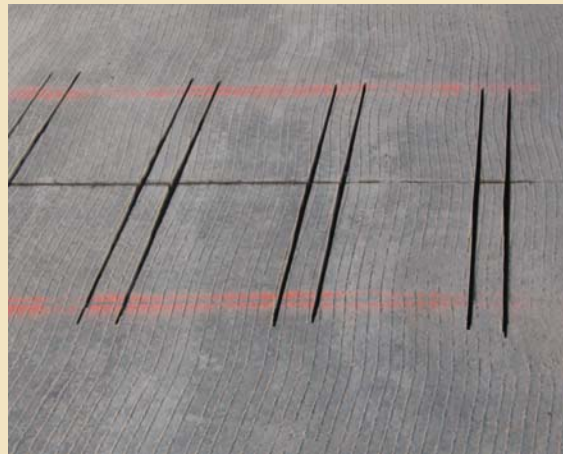


FIRST INTERNATIONAL CONFERENCE ON PAVEMENT PRESERVATION



NEWPORT BEACH, CALIFORNIA APRIL 13-15, 2010 www.pavementpreservation.org/icpp

FIRST INTERNATIONAL CONFERENCE ON PAVEMENT PRESERVATION

Plan now to attend the First International Conference on Pavement Preservation (ICPP). The ICPP will bring together researchers and experts working in the field of pavement preservation to exchange ideas, share best practices, and discuss critical issues and concerns impacting the implementation and success of pavement preservation theory and practice. Over 40 peer-reviewed papers will be presented by international experts at this not-to-be-missed event. Highlights will include case studies of pavement preservation from United States transportation agencies, industry, and international organizations. There will be an exhibit hall open during the first two days of the conference.

WHO SHOULD ATTEND?

Consulting engineers, pavement producers and contractors, material suppliers, state and federal Department of Transportation (DOT) engineers, local agency public works engineers and officials, researchers, and academics.

CONFERENCE PRESENTATIONS

Presentations will be delivered on the following topics:

- Benefits of pavement preservation
- Integrating pavement preservation with pavement management
- Pavement preservation treatments for flexible pavements
- Pavement preservation treatments for rigid pavements
- Strategy selection
- Funding pavement preservation
- Promoting pavement preservation to the public and our elected officials

CONFERENCE EVENTS

Scheduled networking events include a Tuesday evening reception, lunches on Tuesday, Wednesday, and Thursday, and a conference banquet on Wednesday night. A ticketed post-conference tour of local pavement preservation projects is planned for Friday, April 16, 2010.

SPOUSE PROGRAM AND EXCURSIONS

Spouse Program: By registering in the Spouse Program, guests of conference attendees may attend the conference breakfasts, lunches, reception and banquet, and participate in the Spouse Program Icebreaker.

Ticketed Excursions: For an additional fee, conference attendees and their guests may register for one or more of our day trips. Tours have been scheduled while the conference is in session on Tuesday and Wednesday. A post-conference excursion to Disneyland has been planned for Friday.

Because these events are not included in the general conference fee, use our form "Registration for Ticketed Events and Spouse Program" to sign up. Pre-registration is required for ticketed events.

Offerings include the following.

- Whale Watching Tour from Dana Point (Tuesday)
- Mission San Juan Capistrano (Wednesday)
- Day Trip to Disneyland (Friday)

SPONSORS AND EXHIBITORS

Sponsors: Sponsorships are offered to support networking and educational opportunities at the conference. Support the conference by being a sponsor, and get a great public relations benefit as well! Your company will be recognized at the meeting for its generosity.

Exhibitors: The conference will include an exhibit hall on Tuesday, April 13 and Wednesday, April 14, 2010. The exhibit fee of \$1,000 includes two conference registrations.

For more information on sponsorship, or exhibiting, please contact conferences@techtransfer.berkeley.edu or (510) 665-3628

PRIMARY CONFERENCE SPONSORS

- California Department of Transportation (Caltrans)
- Federal Highway Administration (FHWA)
- Foundation for Pavement Preservation (FP2)

OTHER COORDINATING AGENCIES

- California Pavement Preservation (CP2) Center
- National Center for Pavement Preservation (NCP2)
- University of California, Berkeley, Institute of Transportation Studies, Technology Transfer Program

NON-PARTICIPATING SPONSORS

- Transportation Research Board (TRB)
- American Public Works Association (APWA)
- National Association of County Engineers (NACE)
- International Road Federation (IRF)

Official Language: The official language of the conference will be English.

TUESDAY, APRIL 13



8:00 am – 2:00 pm

CONFERENCE REGISTRATION

8:00 am – 5:00 pm

EXHIBIT HALL OPEN

9:00 am – 10:00 am

SPOUSE PROGRAM ICE BREAKER

8:30 am – 12:00 pm

WELCOME TO THE FIRST ICPP

Shakir Shatnawi, State Pavement Engineer, California Department of Transportation

KEYNOTE LECTURES

Randell Iwasaki, Director, California Department of Transportation

Peter Grass, President, The Asphalt Institute

Mike Acott, President, National Asphalt Pavement Association

Christopher Newman, US Federal Highway Administration

John Roberts, International Grinding and Grooving Association

Gerald Voigt, President, American Concrete Paving Association

12:00 pm – 1:30 pm

LUNCH

1:30 pm – 5:00 pm

Pavement Preservation Solutions For Sustainability

'Stitch in Time' Pavement Strategy over 15 Years.

Cossens, Ian, Manager-Asset Strategies, VicRoad, Victoria, Australia (paper 83)

Energy and Emissions Impacts of Road Construction

Francois Chaignon, Quality Assurance and Technical Support, Colas, Morristown, NJ (invited speaker)

Preservation Activities for PCC Pavements.

John Roberts, IGGA (invited speaker)

Ontario's Solutions for Sustainability.

Tim Kazmeiowski, Ontario Ministry of Transportation (invited speaker)

5:00 pm – 7:30 pm

OPENING RECEPTION

Register now: www.pavementpreservation.org/icpp

WEDNESDAY, APRIL 14

8:00 am – 2:00 pm **CONFERENCE REGISTRATION**

8:00 am – 5:00 pm **EXHIBIT HALL OPEN**

8:30 am – 12:00 pm **PARALLEL SESSIONS**

12:00 pm – 1:30 pm **LUNCH**

1:30 pm – 5:00 pm **PARALLEL SESSIONS**

A

Decisions, Decisions, Decisions

Funding solutions for decision makers, performance-based decisions, variable condition decision making, surface treatment selection, pay-now or pay-later treatment selection, and performance-specified maintenance contracting

- *The Performance-Based Approach to Local Street and Road Funding Allocation.* Rommel, T. and Tan, S., Metropolitan Transportation Commission (paper 70)
- *Offering Top Level Decision Maker Budget Funding Solutions in Order to Maintain Pavement Preservation Programs.* Christensen, J., Tensar International, and Skinner, M., Stantec Consulting, Inc. (paper 96)
- *Utilization of Bituminous Surface Treatments for Maintaining Hot Mix Asphalt Pavement Due to Restricted Budgetary Constraints.* Pierce, L.M., Applied Pavement Technology, Inc.; Mahoney, J. P., University of Washington; Muench, S., University of Washington; Uhlmeier, J.S., University of Washington; Li, J., Willoughby, K. and Luhr, D., Washington State Department of Transportation (paper 34)
- *Pavement Preservation: Pay Now or Pay Big Later.* Wang, Z., Center for GIS Georgia Institute of Technology; Tsai, Y., School of Civil and Environmental Engineering, Georgia Institute of Technology; Pitts, E., Georgia Department of Transportation (paper 41)
- *Performance-Specified Maintenance Contracting: The New Zealand Approach to Pavement Preservation.* Gransberg, D.D., University of Oklahoma; Sheepbouwer, E., University of Canterbury, New Zealand; Tighe, S.L., University of Waterloo, Ontario, Canada (paper 123)
- *Rational Procedures for Evaluating the Effectiveness of Pavement Preservation Treatments Track Benefits of Pavement.* Hein, D.K., Applied Research Associates, Inc. (paper 28)

B

Flexible Pavement Preservation Toolbox

Bonded surfaces, slurry seals, chip seals over fabrics, rejuvenator basics, crack sealing and thin overlays

- *Cost Effectiveness of Ultrathin Bonded Bituminous Surface and Modified Slurry Seal.* Liu, L.; Manepallie, V.S.; Gedafa, D.S. and Hossain, M., Kansas State University (paper 69)
- *Chip Sealing over Paving Fabric in Various Climatic Conditions.* Davis, L., US Federal Highway Administration – Pavement Preservation Expert Task Group; Miner, J., Tencate (paper 21)
- *The Role of Asphalt Rejuvenators in Pavement Preservation.* Brownridge, J., Tricor Refining, LLC. (paper 47)
- *Field Performance of Asphalt Treatments on Airfields.* Rushing, J.F. and Falls, A. J., USERDC (paper 48)
- *Service Life of Crack Sealants.* Yildirim, Y., Texas Pavement Preservation Center (paper 19)
- *Effect of Surface Treatment Timing on Low Temperature Properties of Asphalt Binders and Mixtures.* Watson, M.J., Minnesota Department of Transportation; Marasteanu, M., Turos, M., and Velasquez, R., University of Minnesota (paper 33)

A

Pavement Management For Pavement Preservation

Remaining life analyses, web based management systems, examples of agency programs for pavement management for pavement preservation, whole life analyses, life cycle cost assessments (economic and environmental), and estimating treatment life

- *Integrating Pavement Preservation into A Web-based Chuning Highway Pavement Management System (Integrating Pavement).* Tsai, J. and Wu, Y., Georgia Institute of Technology; Guo, D., Research Institute of Highway, Chinese Ministry of Communication (paper 43)
- *Texas Maintenance Management and Pavement Performance System.* Simms, T.B., Texas Department of Transportation; Zhang, Z., Center for Transportation Research, University of Texas at Austin (paper 13)
- *Whole-of-Life Analyses of Different Pavement. The Real Picture.* Collings, D.C., Loudon International, South Africa; Jenkins, K.J., University of Stellenbosch, South Africa (paper 49)
- *How Long Will Asphalt Pavement Last?* Tsai, Y., Purcell, R.C., and Li, Feng, Georgia Institute of Technology; Rabun, J.T., Georgia Department of Transportation (paper 42)
- *Determining Time to Uncontrolled Trafficking after Chip Seal Construction.* Shuler, S. and Lord, A., Colorado State University (paper 5)
- *Innovations and Successes of Hot Applied Mastic Patching Materials for Asphalt and Portland Cement Concrete Pavements.* Parkinson, L. and Chehovits, J., Crafcro, Inc. (paper 126)

B

Rigid Pavement Preservation Toolbox

Benefits of rigid pavement preservation techniques, sustainable preservation techniques for cold weather pervious concrete, and processes for assessing rigid pavement preservation treatments

- *Rapid Strength Concrete for Rehabilitation and Improvement of Pavements.* Stein, B., Kramer, B., Kumar, T., Pyle, T. and Shatnawi, S., California Department of Transportation (paper 32)
- *Developing Sustainable Design, Construction and Maintenance Techniques for Cold Climate Pervious Concrete Pavements.* Henderson, V. and Tighe, S., University of Waterloo, Waterloo, Ontario, Canada (paper 36)
- *Comparative Field Testing of Asphalt and Concrete Pavement Preservation Treatments in Oklahoma.* Riemer, C., Oklahoma DOT; Gransberg, D.D. and Zaman, M., University of Oklahoma (paper 124)
- *Safe Smooth and Quiet Concrete Pavement (Pavement Preservation Treatments for Rigid Pavements Design, Materials).* Scofield, L., American Concrete Pavement Association (paper 78)
- *Construction and Performance of Recycled Roller Compacted Concrete Pavement (RCCP) In Malaysia.* Zulakmal, S., Public Work Department Head Quarters, Malaysia (paper 57)
- *Rapid Curing Polymers Reduce Repair Time and Improve Pavement Performance.* Krauss, P.D. and Wiss, Janney, Elstner Assoc. Inc.; Wyman, R., Roklin System Inc. (paper 53)

6:00 pm – 9:00 pm

CONFERENCE BANQUET

THURSDAY, APRIL 15

8:30 am – 12:00 pm

PARALLEL SESSIONS

A

Selecting Materials for Extending Pavement Life

Field performance of new materials, environmentally-based selection of emulsions, influence of crack sealants, thin surface treatments and overlays on pavement life

- *Extending pavement Life by Forestalling Crack Reflection.* Brown, N.R., Asphalt Consulting Services LLC. (paper 24)
- *Development of High Performance Binder for Prevention Reflective Cracking.* Shimazaki, M., Konno, M., and Takahshi, M., Institute of Research and Development, Taisei Rotec Corp., Japan (paper 71)
- *Field Validation of Performance-based Polymer-Modified Emulsion Residue Tests. The FLH Study.* King, G., GHK, Inc.; Lewandowski, L., PRI Asphalt Technologies; King, H., GHK, Inc.; Lubbers, C., Kraton Polymers LLC; Galehouse, L.L., National Center for Pavement Preservation; Morris, P., Paragon Technical Services, Inc.; Voth, M., Federal Lands Highway Division, Federal Highway Administration (paper 26)
- *Pavement Maintenance Technical Advisory Guide.* Rouen, L., California Department of Transportation; Hicks, R.G., California Pavement Preservation Center (paper 93)
- *"Going Green" with Textile Interlayers: How to Apply with Pavement Preservation.* Davis, L., FHWA Pavement Preservation Expert Task Group; Miner, J., Tencate (paper 20)
- *Life of Chip Seal on Kansas Highways.* Liu, L., Hossain, M. and Miller, R., Kansas State University (paper 39)

B

Case Studies and International Preservation Programs

Introduction of selected international programs in pavement preservation and pavement preservation project successes and failures

- *Case Studies on Failure of Bituminous Pavements.* Kumar, P. and Gupta, A., Indian Institute of Technology Roorkee (paper 52)
- *Case Study on Perpetual Flexible Pavement in Connecticut.* Yut, I., Nener-Plante, D. and Zofka, A., University of Connecticut (paper 104)
- *Statistical Analysis of LTPP SPS-3 Experiment on Preventive Maintenance of Flexible Pavements.* Shirazi, H., Carvalho, R.L., Ayres, M. and Selezneva, O., Applied Research Associates (paper 110)
- *Developing an Asphalt Pavement Preventative Maintenance Program for the Yangjang-Moaming Expressway.* Duanyi, W. and Chaozu, L., South China University of Technology; Galehouse, L., National Center for Pavement Preservation (paper 117)
- *Guidelines for the Implementation of a Pavement Preservation Program for Municipal Pavement in Canada.* Hein, D. K., Applied Research Associates (paper 29)

12:00 pm – 1:30 pm

LUNCH

1:30 pm – 4:00 pm

Promoting Benefits and Implementation of Pavement Preservation

- *What We Don't Know about Pavement Preservation.* Luhr, D., Kinne, C. and Uhlmeier J., Washington State Department of Transportation; Mahoney, J., University of Washington, Seattle, Washington (paper 22)
- *Bitumen Emulsion: Beyond Pavement Preservation.* Bouteiller, E., Colas, France (paper 77)
- *Kansas's Experience with Implementing Pavement Preservation for Portland Cement Concrete Pavements.* Roy Rissky, Kansas Department of Transportation (invited speaker)
- *Promoting the Benefits of Pavement Preservation.* David Peshkin, Applied Pavement Technology (invited speaker)

4:00 pm – 5:00 pm

CLOSING REMARKS

FRIDAY, APRIL 16 (OPTIONAL)

POST-CONFERENCE DAY TRIPS

These optional events are separately ticketed. For details, please see "Registration for Ticketed Events and Spouse Programs" form on page 7 or visit our conference website.

TOUR OF LOCAL PAVEMENT PRESERVATION PROJECTS

OR

EXCURSION TO DISNEYLAND

Register now: www.pavementpreservation.org/icpp

CONFERENCE REGISTRATION

Online registration with a credit card is fast and easy—and strongly encouraged! Please use this form for payment by check only.

Conference pre-registration is required. Registration must be received by April 6, 2010.

To pay with a credit card

Register online at www.pavementpreservation.org/icpp

To pay with a check

Payments in US Dollars only, please. Checks should be payable to UC Regents. Federal Tax ID 94 6002123. Please mail your check and registration form to our registrar:

Registrar, Technology Transfer Program
 1301 South 46th Street, Building 155
 Richmond, CA 94804
 Tel: (510) 665-3466
 Fax: (510) 665-3564
 Email: registrar@techtransfer.berkeley.edu

Cancellation Policy and Substitutions

To cancel your registration and receive a refund less a \$40 processing fee, please notify our registrar by email before April 5, 2010. If you paid by check, we must request your tax ID information in order to process your refund. If you paid by credit card, we can process a credit refund if you cancel within 60 days of your initial transaction. After this period, we must make your refund by check. To send a substitute in your place, please email the name and contact information of the person taking your place to our registrar by April 6, 2010.

The University of California, in accordance with applicable federal and state law and University policy, prohibits discrimination, including harassment, on the basis of race, color, national origin, religion, sex, physical or mental disability, medical condition (cancer-related or genetic characteristics), ancestry, marital status, age, sexual orientation, citizenship, or status as a covered veteran (special disabled veteran, Vietnam-era veteran, or any other veteran who served on active duty during a war or in a campaign or expedition for which a campaign badge has been authorized). This nondiscrimination policy covers admission, access, and treatment in University programs and activities. Inquiries may be directed as follows: sex discrimination and sexual harassment, Nancy Chu, Title IX Compliance Officer, 510-643-7985; disability discrimination and access, Ward Newmeyer, ADA/504 Compliance Officer, 510- 643-5116 (voice) or 510-642-3172 (TTY). Other inquiries may be directed to the Academic Compliance Office, 200 California Hall, #1500, 510-642-2795.

GENERAL CONFERENCE REGISTRATION FORM

Tuesday, April 13 – Thursday, April 15, 2010

Note: Please register separately for add-on conference events and tours using the "Registration for Ticketed Events and Spouse Program" form. Check our website for additional information and updates about ticketed events.

(PLEASE PRINT)

MR / MS / DR	FIRST NAME	LAST NAME
TITLE		
AGENCY/COMPANY		
STREET ADDRESS		
CITY	STATE/PROVINCE	POSTAL CODE
COUNTRY		
EMAIL	PHONE	

CONFERENCE REGISTRATION	FEES
EARLY BIRD before January 1, 2010	\$395 _____
STANDARD CONFERENCE RATE January 1, 2010 – April 6, 2010	\$495 _____
ON SITE April 13, 2010 – April 15, 2010	\$545 _____
CALIFORNIA PUBLIC AGENCY RATE California city, county, regional and state agency employees only	\$250 _____
SPEAKER'S RATE	\$250 _____
ATTENDING CONFERENCE BANQUET? Wednesday, April 14, 2010	Yes / No

Please Note: Spouse/Guest must preregister in Spouse Program to attend Banquet—use form on next page to register in Spouse Program.

Payment Contact Information if different from registrant information:

NAME	TELEPHONE	EMAIL
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REGISTRATION FOR TICKETED EVENTS AND SPOUSE PROGRAM

Online registration with a credit card is fast and easy—and strongly encouraged! Please use this form for payment by check only.

Pre-registration is required for ticketed events. Registration forms must be received by March 28, 2010.

To pay with a credit card

Register online at www.pavementpreservation.org/icpp

To pay with a check

Payments in US Dollars only, please. Checks should be payable to UC Regents. Federal Tax ID 94 6002123. Please mail your check and registration form to our registrar:

Registrar, Technology Transfer Program
1301 South 46th Street, Building 155
Richmond, CA 94804
Tel: (510) 665-3466
Fax: (510) 665-3564
Email: registrar@techtransfer.berkeley.edu

Cancellation Policy and Substitutions

To cancel or send a substitute, please contact the registrar. To cancel your registration and receive a refund less a \$40 processing fee, please notify our registrar by email before March 24, 2010. If you paid by check, we must request your tax ID information in order to process your refund. If you paid by credit card, we can process a credit refund if you cancel within 60 days of your initial transaction. After this period, we must make your refund by check. To send a substitute in your place, please email the name and contact information of the person taking your place to our registrar by April 6, 2010. Please Note: if an excursion is cancelled due to low attendance, we will refund your ticket price in full.

SPOUSE PROGRAM

Guest admission to conference breakfasts, lunches, Tuesday night reception and Wednesday conference dinner banquet.

TICKETED CONFERENCE EXCURSIONS

Each tour takes about 3 – 5 hours, between 9 am and 5 pm. We will post more information to our conference website as it becomes available. Preregistration is required. Ticket prices below are not included in general conference registration. If an excursion must be cancelled due to low attendance, your ticket price will be refunded in full.

(PLEASE PRINT)

MR / MS / DR	FIRST NAME	LAST NAME
TITLE	AGENCY/COMPANY	
STREET ADDRESS		
CITY	STATE/PROVINCE	POSTAL CODE
COUNTRY		
EMAIL	PHONE	

Payment Contact Information if different from registrant information:

NAME	TELEPHONE	EMAIL
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	FEES
Tuesday, April 13 – Thursday, April 15 ICPP SPOUSE PROGRAM: Guest admission to conference breakfasts, lunches, evening reception and banquet	\$250 _____
Tuesday, April 13 WHALE WATCHING TOUR Dana Point Marina expedition	(per person) \$165 _____
Wednesday, April 14 MISSION SAN JUAN CAPISTRANO Self Guided Tour of the Mission San Juan Capistrano.	(per person) \$150 _____
Friday, April 16 DISNEYLAND OR CALIFORNIA ADVENTURE Transportation and one day admission to Disneyland or California Adventure	(per person) \$155 _____
Friday, April 16 POST CONFERENCE TOUR of Local Pavement Preservation Projects	(per person) \$TBD _____
Interested in the post conference tour? Please check our website for updates.	Yes / No

TOTAL DUE: \$ _____

NEWPORT BEACH, CALIFORNIA APRIL 13-15, 2010 www.pavementpreservation.org/icpp

FIRST INTERNATIONAL CONFERENCE ON PAVEMENT PRESERVATION

The ICPP will be held in Newport Beach, California. Situated between Los Angeles and San Diego on the dramatic California coastline, Newport Beach boasts some of California's most beautiful beaches, and is located within an easy drive of many attractions, including Disneyland. Visitors can expect sunshine 95% of the year, and an average temperature of about 70°F—perfect for shopping, golfing, or a trip to the beach. Please check the Newport Beach Conference and Visitor's Bureau website for more information about local activities: www.visitnewportbeach.com



GETTING THERE

By Air: Newport Beach is served most closely by John Wayne Orange County Airport (SNA); other airports close by are Los Angeles World Airport (LAX) and Long Beach Airport (LAB).

From the John Wayne Airport (Orange County): The Radisson Newport Beach operates a courtesy shuttle for hotel guests to and from John Wayne Airport. Please make your arrangements for the shuttle directly with the hotel.

From LAX and Long Beach Airports: The Super Shuttle serves these airports; one way fares to the Radisson Newport Beach range will range from \$36 to \$43 per person. To reserve a shuttle, contact Super Shuttle at www.supershuttle.com or 1-800-258-3826.

Driving: Take the San Diego Freeway (the 405) to the MacArthur Blvd. exit. Turn left at the off ramp. Go 6 blocks to Birch St. The Radisson Newport Beach is at 4545 MacArthur Blvd, Newport Beach, CA—on the corner of Birch St. and MacArthur Blvd.

OUR CONFERENCE HOTEL

The ICPP will be held at the Newport Beach Radisson Hotel, just 5 minutes from John Wayne Orange County Airport. Our conference room rate is just \$134 + tax per night. Free parking is provided. To get the special conference rate, you must reserve before March 31, 2010 and use this code: ICPP.

Radisson Hotel Newport Beach
4545 MacArthur Blvd.
Newport Beach, CA 92660
Tel: (949) 833-0570 or 1-800-395-7046
www.radisson.com/hotels/canewpor

A limited number of rooms will be available at federal and state government rates. To inquire about government rate rooms, please contact conferences@techtransfer.berkeley.edu

PROGRAM COMMITTEE

- Chair, Shakir Shatnawi
California Department of Transportation (US)
- Co-chair, Christopher Newman
Federal Highway Administration (US)
- Co-chair, Bill O'Leary
Foundation for Pavement Preservation (US)
- Secretary, Linda Farrell
California Pavement Preservation Center (US)
- Administrator, Patte Hahn
National Center for Pavement Preservation (US)

HONORARY COMMITTEE

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- Dr. Lee Jae Hong, Ministry of Land, Transport and Maritime Affairs, South Korea
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