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# NCHRP Update

August 2019

# Program Updates

- TRB Annual Meeting: January 12-16, 2020
- Centennial Celebration!
  - TRB turns 100 on November 11, 2020
  - Centennial book
- NCHRP Online:
  - Updating NCHRP Website
  - TRB Snap Searches
    - Ready resource listing research and conference activity by topic area (e.g., Environmental Process)

# Program Updates: NCHRP

- AASHTO R&I met April 2019
- 11 Continuations, 56 projects, 3 Synthesis Topics (116 submitted)
  - NCHRP Synthesis Topic 51-18: Practices for Project-Level Analyses for Air Quality
  - NCHRP 25-61 Effective On-Bridge Treatment of Stormwater
  - NCHRP 25-62 Improving and Streamlining Historic Context Development, Identification, and Evaluation: Focus on Post-World War II Commercial Properties
  - NCHRP 20-44 Implementation Support
    - CRP Staff contact: Sid Mohan [smohan@nas.edu](mailto:smohan@nas.edu)

# NCHRP 20-123 Support for AASHTO Committees & Councils

- Assistance in advancing and implementing the vision, mission, and strategic goals of AASHTO committees and councils.
- Develop research roadmaps, prioritize research needs, research scoping, convene peer exchanges and more
- NCHRP Staff Contact: Camille Crichton-Summers:  
CCrichton-Summers@nas.edu

# Program Updates: NCHRP

- Forming new project panels now; RFPs for most projects anticipated this winter
- New Problem Statements (FY2021) due November 1
  - Problem Statement template on-line at NCHRP site
  - Critical Issues in Transportation
  - Renewing the National Commitment to the Interstate Highway System

# Recent Research Reports Released

- NCHRP Report 905 Measuring the Effectiveness of Public Involvement in Transportation Planning & Project Development
- NCHRP 25-49 Development of a Highway Construction Noise Model
- NCHRP Legal Research Digest 76: Indian Transportation Law

# Recent Releases: 25-25 Projects

Natural  
Resources

- Task 102 Artificial Bat Roost Mitigation Designs & Standardized Monitoring Criteria

# Recent Releases: 25-25 Projects

Air Quality &  
Noise

- Task 106 Highway Noise & Historic Properties: A National Review of Effects & Mitigation Practices
- Task 108 Creating Look-up Tables to Streamline the Determination of Emission Reductions for CMAQ Projects



# Recent Releases: 25-25 Projects

- Task 103 Administration of CEs by State DOTs under NEPA
- Task 107 Section 106 Delegation PAs: Review & Best Practices
- Task 109 Successful Practices for Environmental Commitments in P3 and DB Contracts
- Task 111 Environmental Management System Perspectives for State DOTs

Environmental  
Process

# Recent Releases: 25-25 Projects

Cultural  
Resources

- Task 106 Highway Noise & Historic Properties: A National Review of Effects & Mitigation Practices
- Task 107 Section 106 Delegation PAs: Review & Best Practices
- Task 110 Review of Historic Property Identification Surveys & Strategies for Managing Post-World War II Housing in Transportation Projects

# Recent Releases: 25-25 Projects

- Task 105 Connecting Transportation & Health: A Guide to Communication & Collaboration

# Pending Releases

- NCHRP 25-54 Approaches for Determining and Complying with TMDL Requirements Related to Stormwater Runoff (in press; webinar this fall)
- NCHRP 25-51 Limitations of the Infiltration Approach to Stormwater Management (in press)
- NCHRP 25-53 Field Testing of BMPs Using Granulated Ferric Oxide Media to Remove Dissolved Metals in Roadway Runoff (in press)

# Underway: Roadside Environment

- NCHRP 14-41 Permanent Vegetation Control for Roadsides
- NCHRP 25-59 Pollinator Habitat Conservation Along Roadways
- NCHRP 20-119 Evaluating the Suitability of Roadway Corridors for Use by Monarch Butterflies

# Underway: Stormwater & Noise

- NCHRP 14-39 Using Vegetated Compost Blankets to Achieve Highway Runoff Volume & Pollutant Reduction
- NCHRP 25-60 Watershed Approach to Mitigating Hydrologic Impacts of Transportation Projects
- NCHRP 25-57 Breaking Barriers: Alternative Approaches to Avoiding & Reducing Highway Traffic Noise Impacts
  - Survey underway

# Underway

- NCHRP 25-56 Methods for State DOTs to Reduce GHG Emissions from the Transportation Sector
  - Online briefing scheduled Aug 13 - contact PI for details:  
Chris Porter [cporter@camsys.com](mailto:cporter@camsys.com)
  - Phase 3 to include piloting assistance to DOTs

# Underway: 25-25 Projects

- Task 104 Streamlining Carbon Monoxide Project-Level Air Quality Analyses with PAs
- Task 113 Highway Passages for Small Terrestrial Wildlife: Summary and Repository of Design Examples
- Task 119 Enhancing the International Stormwater BMP Database to Serve as a Highway-Specific Database
- Task 120 Use of the State DOT Portal to the International Stormwater BMP Database



# Underway: 25-25 Projects

- Task 114 Integrating Tribal Expertise into Processes to Identify, Evaluate, and Record Cultural Resources
- Task 115 Estimates of Emissions Reductions from Future Fleet Changes for Use in Air Quality Models
- Task 116 Potential Sec 106 Exempted Categories or Program Comments for FHWA Projects: National Streamlining Opportunities
- Task 117 Valuing Wildlife Crossing Enhancements for Mitigation Credits
- Task 118 CSD Options for Workhorse Bridges in Rural Historic Districts

# 25-25 Program

- *TR News* ‘retrospective’
- Collecting comments and reflections on the program and specific Task projects
  - Touchstone reports
  - Unique insights gained
  - Impacts on practice (or research)
  - Implementation experiences
- See Ann this week or follow up after the meeting

# Supporting NCHRP

- Problem Statements
- Supporting research underway
  - Surveys and interviews
  - Data and information requests
  - Pilots, workshops, interim activities
  - Project panel participation
- Implementation
- Dissemination
  - Colleagues, Partners, Stakeholders, Management

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# Thank you!

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# CES RESEARCH: LOOKING AHEAD

 Antony Opperman

AASHTO CES Meeting, Minneapolis, Minnesota 2019

# New CES Problem Statements (subcommittee rankings)

## Environmental Process (Carissa Watanabe)

- **1124: Strategies for state-wide data collection in the context of environmental analysis in project level transportation decision making**
- **1109: Methodology for analyzing noise and vibration impacts on different terrestrial species (2018 Submission)**

## Air Quality (Natalie Liljenwall)

- **1127: Fast Air Quality Clearances Using EPA Near-Road Monitoring Data**
- **1137: TEMPLATE for GHG emission Analysis and Climate Change for NEPA Documents for STATE DOTs**
- **1129: Uncertainty in Project-level Emissions and Air Quality Analysis**

# New CES Problem Statements

## Natural Resources (Kris Gade, Jana Ratcliff)

- 1101: Use of innovative technology to deter bat-bridge use
- 1121: Leveraging New Data Collection Methods for Evaluating Ecological Impacts of Transportation Projects (could incorporate ideas from 2 other TERI items that were submitted - 1094 and 1124; 1124 was voted on by all subcommittees so wondering if another subcommittee selected it?)
- 1117: Highway Stormwater Management Training Materials and Electronic Resource Library

## Cultural Resources (Tony Opperman)

- 1132: National to State Level Historic Road Context, Identification and Evaluation
- 1119: Considering "Reasonable Assurance" in Section 106 Compliance and NEPA Decision Making

## Other Suggestions?



# Pop Quiz!

## Does your state have an “R&I” or “RAC” member?

- What’s “R&I”?
  - AASHTO’s Special Committee on Research and Innovation
- How do I find out?
  - Rosters: <https://research.transportation.org/r-and-i-roster/>;  
<https://research.transportation.org/rac-membership/>

## Why does this matter?

- *Selected research projects often need a state DOT champion, above-and-beyond the merits of the topic.*
- R&I recommends projects for NCHRP funding.