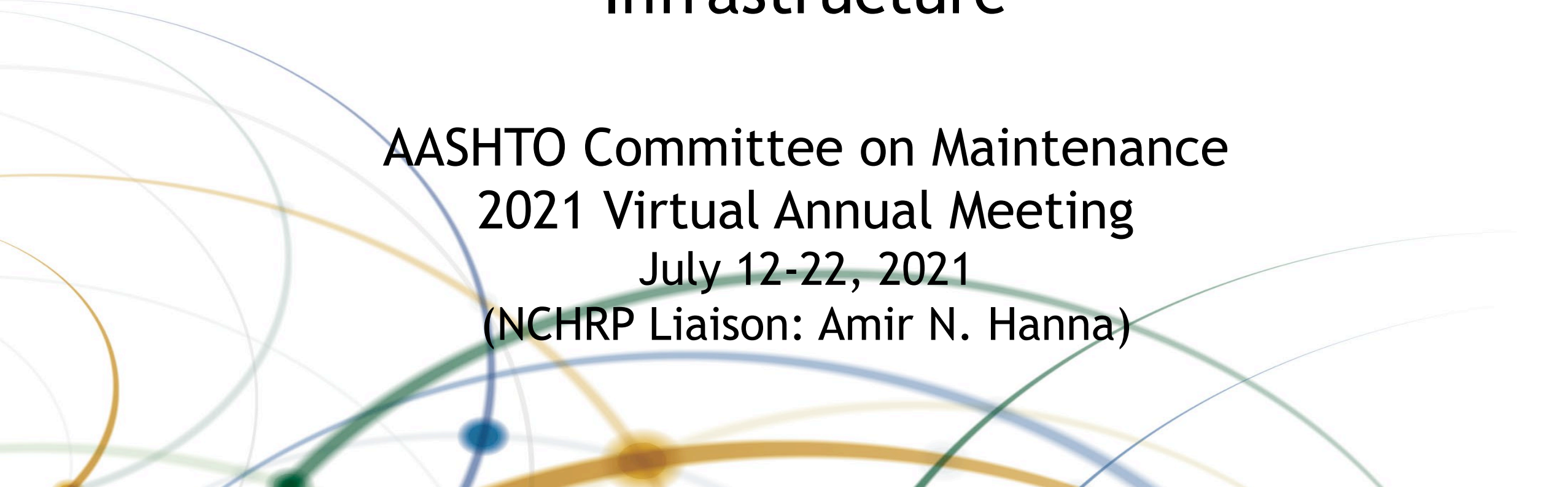


NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM

Research on the Maintenance of Highway Infrastructure

AASHTO Committee on Maintenance
2021 Virtual Annual Meeting
July 12-22, 2021
(NCHRP Liaison: Amir N. Hanna)



Presentation Outline

- Types of NCHRP Projects
- NCHRP FY 2022 and 2023 Programs



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NCHRP since 1962: All Levels, All Major Functions



Maintenance Topics Covered

- Maintenance of pavements
- Maintenance of bridges and structures
- Snow and ice control
- Equipment
- Roadside maintenance
- Others (workforce, administration, etc.)



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Types of NCHRP Projects

- **Research projects:** Produce practical, ready to use results (e.g., manuals, guides, tools, specifications, etc.)
- **Synthesis reports** (Project 20-05): Report on information related to highway practices (no detailed direction, recommendation, etc.)
- **Implementation Support** (Project 20-44): Support dissemination, training, demonstration, etc. of NCHRP research results



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Types of NCHRP Projects

- **Support for AASHTO Committees and Councils** (Project 20-123): Support for advancing and implementing the vision, mission, and strategic goals of the committee or council.
- **US Domestic Scan forums** (Project 20-68A): Facilitate information sharing and technology exchange among the states and other transportation agencies, and to identify actionable items of common interest.
- **NCHRP-IDEA--Innovations Deserving Explanatory Action** (Project 20-30): Explores the feasibility of unproven technical concepts, novel applications of proven concepts, or advances that have not yet been tried or tested for application in transportation practice.



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Examples of Implementation Projects

- **Project 20-44(26):** Implementing Guide Specifications for the Construction of Chip Seals, Micro Surfacing, and Fog Seals - In progress

To facilitate the adoption by AASHTO of the guide specifications for construction of chip seals, micro surfacing, and fog seals produced in NCHRP Project 14-37 through a series of phased activities in four areas: information dissemination, outreach, training, and demonstration.

- **Project 20-44(37):** Workshops on Performance Measures in Snow and Ice Control Operations - Pending

To develop and hold a series of workshops for state DOT personnel to share information on performance measures in snow and ice control operations, and how these measures can be customized and used by the DOT to report on the extent of meeting the snow and ice control objectives.



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NCHRP FY 2022 - Summary

- 12 Continuation projects (\$8.068 million)
 - 6 Special projects (\$6.443 million)
 - 6 Continuation projects (\$1.625 million)
- 49 New projects (\$23.825 million)
- Total 61 projects (\$31.893 million) in about 20 problem areas (bridges, maintenance, materials, pavements, traffic, security, safety, etc.)
- 4 Contingent projects (1.400 million)



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NCHRP FY 2022 Projects

(Selected in April 2021)

- NCHRP Project 14-47: Tools and Technology for Roadside Landscape Asset Management
- NCHRP Project 14-48: Construction Guide Specifications for Pavement Treatments - Sand Seals and Ultra-thin Bonded Surface Treatments
- NCHRP Project 20-129: Best Management Practices to Address Encampments on State Highway Rights of Way



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NCHRP FY 2023 Program

- November 1, 2021: End date for submitting NCHRP problem statements (research projects) - State DOTs, AASHTO committees, FHWA.
- February 18, 2022: End date for submitting synthesis topics - Any individual or group.



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More Information

- *NCHRP: Advancing transportation and meeting states' needs for more than half a century*
- A list of over 125 projects and their status is available on the Committee web site under research (NCHRP Research - 2020):
<https://maintenance.transportation.org/wp-content/uploads/sites/23/2020/07/NCHRP-Research-2020-2.pdf>
- Details are available on NCHRP web site
<http://www.trb.org/NCHRP/NCHRP.aspx>
- Contact: Amir N. Hanna
ahanna@nas.edu
202/334-1432



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More Information

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