

# Helpful Details for Participation in NCHRP Research Programs

David Reynaud  
NCHRP

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# NCHRP Research Programs

- NCHRP Research Program
- NCHRP 20-07 Research for AASHTO SCOH
- NCHRP 20-30 Highway IDEA Program
- NCHRP 20-05 Synthesis Program
- NCHRP 20-68a Domestic Scan Program
- NCHRP 20-36 International Scan Program

# NCHRP Research Programs

- National Cooperative Highway Research Program
  - Who is involved?
    - AASHTO member DOTs, AASHTO Committees & FHWA
  - What is needed for submission?
    - See template with annual solicitation of problem statements
  - When is submission?
    - Sept. 15
  - How is the “selection” handled?
    - SCOR submits its spring meeting selections to the AASHTO Board of Directors for the required 2/3 approval
  - How is it funded and the level of funding?
    - 5.5% of each State’s SP&R apportionment from FHWA
  - Point of Contact
    - NCHRP – Crawford Jencks

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# NCHRP Research Programs

- NCHRP 20-07 Research for the AASHTO SCOH

<http://www.transportation1.org/nchrp/20-7/>

- Who is involved?

- Standing Committee on Highways & its Subcommittees

- What is needed for submission?

- Proposal format & submission are on the above site. Must be endorsed by the Submitting Subcommittee Chair

- When is submission?

- Twice a year (3 weeks before Spring & Fall SCOH Meetings)

- How is the “selection” handled?

- Panel of SCOH and Subcommittee Chair/Vice Chairs

- How is it funded and the level of funding?

- SCOR approves \$1.2 M per year, \$50-100K/Project

- Point of Contact

- NCHRP – Nanda Srinivasan

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# NCHRP Research Programs

- NCHRP 20-05 Synthesis of Information Related to Highway Problems, <http://www.trb.org/SynthesisPrograms/Public/SynthesesNCHRP.aspx>
  - Who is involved?
    - NCHRP, State DOTs. Submission is open to anyone
  - What is needed for submission?
    - Create a “Statement” – Submission process is online <http://www.trb.org/SynthesisPrograms/Public/SynthesisProposalForm.aspx>
  - When is submission?
    - February
  - How is the “selection” handled?
    - NCHRP Panel 20-05
  - How is it funded and the level of funding?
    - SCOR funds \$1.5 million annually for 13 Topics
  - Point of Contact
    - NCHRP - Jon Williams

# NCHRP Research Programs

- NCHRP 20-30 Highway IDEA

<http://www.trb.org/IDEAProgram/IDEAHighway.aspx>

- Who is involved?

- Anyone who has a new and innovative idea that needs a little push

- What is needed for submission?

- Submittal forms are in the annual IDEA Program announcement

- When is submission?

- Anytime, selections are made twice a year: March and September 1<sup>st</sup>

- How is the “selection” handled?

- NCRHP 20-30 Panel – Consisting of SCOR member volunteers

- How is it funded and the level of funding?

- SCOR approves funding of \$1.25 million annually

- Point of Contact

- NCHRP – Dr. Inam Jawed

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# NCHRP Research Programs

- NCHRP 20-68a Domestic Scan

<http://144.171.11.40/cmsfeed/TRBNetProjectDisplay.asp?ProjectID=1570>

- Who is involved?
  - State DOT, NCHRP, FHWA
- What is needed for submission?
  - 2 page proposal
- When is submission?
  - September
- How is the “selection” handled?
  - NCHRP Panel 20-68a, with input from FHWA
- How is it funded and the level of funding?
  - SCOR approves funding of \$500k annually
- Points of Contact
  - NCHRP Andrew Lemer, AASHTO Marty Vitale , FHWA Mike Burk

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# NCHRP Research Programs

- NCHRP 20-36 International Scan Program

<http://international.fhwa.dot.gov/scan/>

- Who is involved?
  - FHWA , AASHTO and NCHRP
- What is needed for submission?
  - Short 2-3 page proposal detailing the topic
- When is submission?
  - September
- How is the “selection” handled?
  - Collaboration process led by NCHRP Panel 20-36
- How is it funded and the level of funding?
  - FHWA and NCHRP each fund half of \$1.6 million annually
- Points of Contact
  - FHWA - Hana Maier, NCHRP- Nanda Srinivasan, AASHTO – Marty Vitale

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# NCHRP Special Projects

- 20-5 Synthesis Program
- 20-6 Legal Studies
- 20-7 AASHTO Highways Committee
- 8-36 AASHTO Planning Committee
- 25-25 AASHTO Environmental Committee
- 20-65 AASHTO Public Transportation Committee
- 20-24 Adm. Of State DOTs (for CEOs)
- 20-30 NCHRP-IDEA
- 20-36 International Info. Sharing and Scans
- 20-68 US Domestic Scan Program
- 20-83 Long-Range Strategic Issues



# Applied Research

- Recommended AASHTO Guides and Specifications
- Guides for practitioners
- Software products
- New or improved models/tools
- New or improved operations and services
- New or improved testing/evaluation techniques
- Fact finding (white papers)

# NCHRP Utility and ROW Projects

## Completed Projects

NCHRP 08-55A Developing a Logical Model for a Geo-Spatial Right-Of-Way Land Management System

NCHRP 20-07 (247) Outdoor Advertising Sign Regulation Study

NCHRP 20-07 (248) Guidelines for Utility Encasement Policy for Highway Crossings

NCHRP 20-07(269), Feasibility of Using Incentives to Facilitate Utility Relocations

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# NCHRP Utility and ROW Projects

## Active Projects

NCHRP 20-07(312) Best Practices for Automating Utility Permits

NCHRP 20-07 (313) Safety Checklists and Design Guidelines for Evaluation of Outdoor Advertising Signs and Permit locations by Departments of Transportation (DOTs)

NCHRP 20-07 (320) Advanced GIS Visualization Techniques for Geospatial Business Intelligence and Information Integration

NCHRP 20-84 Improved Right-of-Way Procedures and Business Practices

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# 2012 NCHRP Design Projects

NCHRP 01-51 Characterizing Slab/Base Friction for Improved Concrete Pavement Designs

NCHRP 01-52 Calibrated, Mechanistic-Based Models for Top-Down Cracking of Hot-Mix Asphalt Layers

NCHRP 03-105 Developing Design Criteria for Cost-effective Multi-lane Loop Ramp Design

NCHRP 12-90 Guidelines for Design and Shielding of Bridge Piers

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# 2012 NCHRP Design Projects

NCHRP 15-45 Update of the AASHTO Guide for the Planning, Design, and Operation of Pedestrian Facilities

NCHRP 24-36 Scour at the Base of Retaining Walls and Other Longitudinal Structures

NCHRP 25-40 Evaluation of Long Term Performance of Stormwater Controls

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# Questions

- ?????

# Research Programs

- AASHTO Technology Implementation Group (TIG)
  - <http://tig.transportation.org/>
  - Who is involved?
    - State DOT's, FHWA
  - What is needed for submission?
    - 2 page proposal
  - When is submission?
    - September
  - How is the “selection” handled?
    - TIG Executive Committee (SCOH members, RAC & others)
  - How is it funded and the level of funding?
    - AASHTO Technical Service Program – Annual budget of about \$250k
  - Point of Contact
    - AASHTO – Keith Platte