Transportation Research Board 2014

AFB60 – Hydrology, Hydraulics and Water Quality Committee

2014 NHEC – “Designing Sustainable Infrastructure in a Changing Environment”
The National Academies Today

<table>
<thead>
<tr>
<th>1863</th>
<th>1964</th>
<th>1970</th>
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<tr>
<td>National Academy of Sciences</td>
<td>National Academy of Engineering</td>
<td>Institute of Medicine</td>
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- Private non-profit organization
- Chartered by Congress to advise government
- Independent, arms-length relationship to sponsors
- Governed by members of NAS, NAE, IOM
- Administered by National Research Council
- TRB one of six major divisions
The mission of the Transportation Research Board is to provide leadership in transportation innovation and progress through research and information exchange, conducted within a setting that is objective, interdisciplinary, and multimodal.

- Managing Research
- Delivering Policy Analysis & Advice
- Providing Tools for Researchers & Practitioners
- Bringing the Transportation Community Together
Technical Activities Division

The TRB Technical Activities Division provides a forum for transportation professionals to identify research needs and to share information on research and issues of interest.

- The Division's staff of specialists in each mode and discipline work with a network of volunteers
- Members and friends on over 200 standing committees
- Committees made up of university researchers, consultants, and DOT representatives
- TRB representatives in each state, over 150 universities, and 35 transit agencies
- Lead by the Technical Activities Council
The foundation of the Technical Activities Division is the standing committee.

Decoding TRB Committee Codes

A F B 60

Division - Technical Activities Division is A
Group
Section
Committee number

Technical Activities Council

Group

Section

Task Force

Committee

Subcommittee
Hydrology, Hydraulics, and WQ

Activities

- Three subcommittees that represent each major topic even though many members work with all three in their daily activities by necessity
- Research Needs Statements are main focus
- Also includes Synthesis document proposals due Feb. 15
- Workshops, Podium & Poster sessions for TRB Annual Meeting in Washington, DC are next major focus
- Includes calls for papers in May and paper reviews as preparation by September 15 each year
- Coordination with other committees within TRB and AASHTO TCHH are a key focus
Hydrology, Hydraulics, and WQ

○ Some Current Topics
  ● Estimation of Long-term Continuous Hydrographs for Use in Scour Computations
  ● Countermeasures design in steep slope areas
  ● Defining low flow statistics needed for water quality such as the 90th percentile storm.
  ● Hydrology in regulated watersheds
  ● Design tools for climate change and non-stationarity
  ● Heavy Metals, Nutrients and Bacteria in runoff for TMDLs

○ AFB60 Committee Google site at: https://sites.google.com/site/trbcommitteeafb60/Welcome

○ My TRB webpage
  ● https://www.mytrb.org/