

TRIENNIAL STRATEGIC PLAN (TSP)

Evaluation Period: April 15, 2020 to April 15, 2023

PART 1: Committee Name and Scope

This is an opportunity to review the officially approved name and scope that are posted on the TRB website and consider any necessary changes. If changes are needed, include the proposed scope statement and/or name and justification for the changes.

NOTE: A proposed committee name and/or scope change must have the approval of 2/3 of the official members of the committee. The balloting done at a committee meeting that has less than 2/3 of the members in attendance must be augmented with e-mail balloting of the members not in attendance.

Committee Code *	AKP40
Committee Name *	Standing Committee on Pavement Structural Testing and Evaluation
- Date(s) reviewed	March 31, 2020
- Change, if proposed***	AKP40 committee was formed by merging committees AFD40 Full-Scale Accelerated Testing and AFD80 Pavement Structural Evaluation and Modeling, which was a result of the restructuring done by TRB during the 2019 to 2020 period. The committee name reflects the outcome of discussions between the AFD40 and AFD80 chairs, the AFD00 Section chair and the TRB representative to provide a solid foundation for the new committee, which will be officially formed in April 2020.
- No. of official members approving change/total number of members **	Committee name has not yet been voted by the committee and it is possible that such vote may need to wait until the AFD40 and AFD80 committee merger process is further along.
Committee Scope *	This committee is concerned with the structural testing and evaluation of pavement systems. Information obtained from these tests are used to characterize individual pavement layers as well as to determine overall structural performance of pavements through direct response measurements, modeling, correlation, and other methods. Testing and evaluation includes the use of falling weight deflectometers, traffic speed deflection devices, and full-scale accelerated pavement testing.
- Date(s) reviewed	March 31, 2020
- Change, if proposed ***	Please refer to information on committee merger provided above in response to name change item. The committee scope reflects the outcome of discussions between the AFD40 and AFD80 chairs, the AFD00 Section chair and the TRB representative to provide a solid foundation for the new committee, which will be officially formed in April 2020.
- No. of official members approving change/total number of members **	Committee scope has not yet been voted by the committee and it is possible that such vote may need to wait until the AFD40 and AFD80 committee merger process is further along.

* Show current, as it currently appears in the [TRB Online Directory](#)

** Includes Chair, Standing Committee Members, Emeritus Members, and Young Members

*** Show proposed, or Not Applicable

PART 2: Committee Accomplishments (as a result of the merger, both the AFD40 and AFD80 committee accomplishments are presented in this TSP section)

AFD40 Full-Scale Accelerated Testing

2.1

Year	2017	2018	2019	2020
Number of Members in Attendance at Annual Meeting		23	14	20
Number of Visitors in Attendance at Annual Meeting		37	21	15
Number of Papers Reviewed		10	21	16
Total Number in Attendance at Mid-Year Meeting	NA	18	14	

2.2

Sessions and workshops sponsored/cosponsored at the Mid-Year meeting, including name of co-sponsoring committee(s) if applicable (by year):

- AFD40 Mid-Year Virtual Committee Meeting, July 13, 2017
- AFD40 Mid-Year Virtual Committee Meeting, July 16, 2018
- AFD40 Mid-Year Virtual Committee Meeting, July 16, 2019

2.3

Provide title(s) and presenter(s) for informal presentations made at Annual Meeting and Mid-Year Committee meetings (by year):

- **Experience with Autonomous Vehicles and What Materials Related Issues Need to Be Answered**, Jay Hiepis, MnDOT, January 2018
- **Leveraging Autonomy in Truck Platooning to Improve Freight Transportation Sustainability**, Erman Gungor and Imad Al-Qadi, University of Illinois, January 2018
- **APT Research Applications Supporting Automated Vehicle Operations**, Wynand Steyn, University of Pretoria, January 2018
- **HGV Platooning Trials**, Brian Ferne, Transportation Research Lab, January 2018
- **Platooning is a Reality – We Must Design for It**, Imad Al-Qadi, University of Illinois, January 2019
- **Automated Vehicles: Implications to Pavement Performance**, Shane Underwood, North Carolina State University, January 2019
- **Smart Cementitious Concrete Pavements and Distributed Damage Monitoring**, Ken Loh, University of California, January 2020
- **Predicting Pavement Performance from Accelerated Pavement Testing**, Buzz Powell, National Center for Asphalt Technology, January 2020

In addition to the above presentations during the main committee meeting, individuals provided 5-minute facility and research updates during the 2018 and 2019 AFD40(2) subcommittee on International APT Alliance. Monthly 1-hour webinars have been hosted since 2011 to allow for more detailed discussions of specific APT related research topics. The AFD40(2) subcommittee was sunset as part of the periodic subcommittee review process in 2018. However, the monthly webinars have proven to be a great benefit and interest to the APT community and will continue.

2.4

Provide titles of new research need statements (RNS) posted in TRB's RNS database (by year):

Below is a list of research topics that are under development but have not been submitted to the RNS database. After discussions from the last Mid-Year meeting, it was determined that to gain wider interest RNS should be prepared with a larger audience in mind.

- Predicting In-Service Performance of Flexible Pavements from Accelerated Pavement Testing
- Pavement Dynamic Response Measurement Standardization
- The Effect of Speed and Lateral Wander on Asphalt Rutting and Cracking

NOTE: Attachment B shows all statements currently posted in TRB's RNS database.

2.5

Provide title(s) of RNS submitted for funding consideration:

No RNS were successful during this period.

2.6

Provide titles of synthesis topics submitted (by year):

No synthesis completed during this period. The last synthesis was completed in 2012.

- NCHRP Synthesis 433-Significant Findings from Full-Scale Accelerated Pavement Testing, Summary of APT Activities from 2000-2011, Author: Wynand Steyn

2.7

Membership Make-up: Please see Attachment C provided by TRB for summary details.

AFD40 demographics are well balanced with approximately 26% of the members from State and Federal governments, 22% of the members from industry and consultants, and 52% of the members from academia. Approximately 10% of the members are female and 10% represent minorities. Approximately 6% of the members are from the Northeastern part of the U.S. and approximately 6% of the members are from the Northwestern part of the US. Other geographic areas make up 16% to 26% of the membership. AFD40 members will merge with AFD80 members as a single committee AKP40 starting April 15. Future membership plans for continuing diversity will focus on addition of women, minorities, and more representation from the Northeast and Northwest.

2.8

Provide any of the following:

- Publications
 - **AFD40 Centennial Paper, Accelerated Pavement Testing: Celebrating over 100 Years of Innovation and Economic Benefits**
<http://onlinepubs.trb.org/onlinepubs/centennial/papers/AFD00andAFD40-Final.pdf>
- Workshops
 - **Impact of Connected and Automated Vehicles on Pavement Damage**, January 2020 (AFD50 and AFD60 were co-sponsors)
 - **Pavement Performance Analysis Workshop (PAWS)**, January 2018 (co-sponsored with AFD00 committees)
 - **Pavement Performance Analysis Workshop (PAWS)**, January 2019 (co-sponsored with AFD00 committees)
 - **Structural Evaluation of Pavements as They Drain**, January 2020 (co-sponsored with AFS60)
 - **Pavement Performance Analysis Workshop (PAWS)**, January 2020 (co-sponsored with AFD00 committees)
- Conferences
 - 6th Annual International Conference on Accelerated Pavement Testing, September 2020, Nantes, France

AFD80 Pavement Structural Evaluation and Modeling

2.1

Year	2017	2018	2019	2020
Number of Members in Attendance at Annual Meeting		30-35	30-35	30-35
Number of Visitors in Attendance at Annual Meeting		45-50	45-50	45-50
Number of Papers Reviewed	48	17	42	
Total Number in Attendance at Mid-Year Meeting	16	19	22	

2.2

Sessions and workshops sponsored/cosponsored at the Mid-Year meeting, including name of co-sponsoring committee(s) if applicable (by year):

- AFD80 Mid-Year Virtual Committee Meeting, July 20, 2017
- AFD80 Mid-Year Virtual Committee Meeting, June 6, 2018
- AFD80 Mid-Year Virtual Committee Meeting, June 26, 2019

2.3

Provide title(s) and presenter(s) for informal presentations made at Annual Meeting and Mid-Year Committee meetings (by year):

- **Effects of Rayleigh Damping Parameters on the Subgrade's Apparent Non-Linearity**, Gabriel Bazi, January 2018
- **Field Testing and Modeling Analysis of Heavy Weight Deflectometer and Its Relationship to Moving Tire Loading on Airfield Pavement**, Wang, January 2018

- **Development of Domain Analysis to Predict Multi-axial Airfield Pavement Responses due to Gear and Environmental**, Anjeli Gamez, January 2018
- **Will Long-Life Designs Survive under HGV Platoons? UK Plans for Studying the Effects of HGV Platoons on Pavement Performance**, Brian Ferne, January 2018
- **TSD Structural Pavement Evaluation in Virginia: An Expanded Pilot Study** [Brian Diefenderfer, January 2018
- **Network level structural pavement testing at traffic speed using Dynatest RAPTOR** by Jack Larson, Dynatest, January 2019
- **Field section characterization and numerical model development to quantify energy dissipation due to structural response of flexible and rigid pavements** by Mostafa Estaji, OSU, January 2019
- **Fundamental characterization of the anisotropic behavior of unbound granular materials**, Piere Nigem, Technion, January 2020
- **Predicting Asphalt Concrete Master Curve using Dynamic Backcalculation**, Gabriel Bazi, Lebanese American University, January 2020

2.4

Provide titles of new research need statements (RNS) posted in TRB's RNS database (by year):

- Pavement Design Moduli from Seismic Measurements (2009)
- Development of Guidelines for Consideration of Temperature Effects in Rigid Pavement Deflection Analysis (2009)
- Protocols for the Continuous Pavement Deflection Measuring Devices: Calibration and Structural Assessment (2018)
- Efficient Collection of In-situ Mechanistic Response Measurements to Facilitate Pavement Design and Evaluation (created 2019 and under consideration for 2020)
- Multi-Variate Analysis for Pavement Assessment (created 2019 and under consideration for 2020)

NOTE: Attachment B shows all statements currently posted in TRB's RNS database.

2.5

Provide title(s) of RNS submitted for funding consideration:

- **Protocols for the Continuous Pavement Deflection Measuring Devices: Calibration and Structural Assessment**
 - Submitted and approved for funding.
 - Project 10-105 – Verification of Traffic Speed Deflection Devices (TSDDs) Measurements
 - Funding organization: NCHRP

2.6

Provide titles of synthesis topics submitted (by year):

- **State of the Practice of Designing and Accommodating Drainage in Pavement Design, Construction, and Maintenance**, submitted February 2020 (co-sponsored with AFS60 and AFD20)

2.7

Membership Make-up: Please see Attachment C provided by TRB for summary details.

The committee's demographics are reasonably well balanced, but plans on adding more women, which now represent 22% of the committee, as well as minorities, which presently represent 33% of the committee. We have good representation among sectors, with 22% of the members from Federal/State/Local government, 25% from industry/consultants, and the remaining 55% from academia. Geographically, we are light on representatives from the northwest (only 6% of members), but have an over-representation from the southeast (33% of members), so plan on adjusting membership in these two regions.

Other membership-related issues are discussed in more detail in Part 3 and they can be addressed in our next triennial rotation next year (2021). Top at the list of those issues is the merger of the AFD40 and AFD80 committees into a single committee AKP40. It is anticipated that the membership for the two existing committees will remain largely unchanged for the next year, implying the merged AKP40 committee will have 60+ members, but that number will be brought in line with other TRB standing committees by April 15, 2021.

2.8

Provide any of the following:

- Publications
 - TRB E-Circular 254 **Workshop on the Use of Traffic Speed Deflection Device Data in Network- and Project-Level Pavement Decisions**, based on a workshop sponsored by AFD80 committee in January 2019 <http://www.trb.org/Publications/Blurbs/179690.aspx>
 - **AFD80 Centennial Paper**, <http://onlinepubs.trb.org/onlinepubs/centennial/papers/AFD80-Final.pdf>
- Workshops
 - **Next-Generation Pavement Management Systems: Incorporating Network-Level Structural Capacity Leading Indicators**, January 2018
 - **Integrating Geotechnical Instrumentation and Modeling to Optimize Performance of Transportation Infrastructure**, January 2018 (co-sponsored with AFS20)
 - **Pavement Performance Analysis Workshop (PAWS)**, January 2018 (co-sponsored with AFD00 committees)
 - **Use of Traffic Speed Deflection Device Data in Network and Project Level Pavement Decision**, January 2019
 - **Pavement Performance Analysis Workshop (PAWS)**, January 2019 (co-sponsored with AFD00 committees)
 - **Structural Evaluation of Pavements as They Drain**, January 2020 (co-sponsored with AFS60)
 - **Pavement Performance Analysis Workshop (PAWS)**, January 2020 (co-sponsored with AFD00 committees)

- **Webinars**
 - **Use of Traffic-Speed Deflection Devices in Network-Level Pavement Management Applications**, June 8, 2017 (co-sponsored with AFD20)
 - **New Pavement Engineering Technologies - The Long Term Pavement Performance Climate and Bind Tools**, August 21, 2017 (co-sponsored with AFD20)
 - **Evaluation of Superheavy Load Movements on Flexible Pavements**, April 23, 2019 (co-sponsored with AFK50)
 - **Continuous Deflection for Comprehensive Pavement Assessments**, May 30, 2019 (co-sponsored with AFD20)
- **Other**
 - **FHWA LTPP Box Session**, January 2018 (co-sponsored with Section AFD00 and AFD20)
 - **FHWA LTPP Box Session**, January 2019 (co-sponsored with Section AFD00 and AFD20)
 - **FHWA LTPP Box Session**, January 2020 (co-sponsored with Section AFD00 and AFD20)

PART 3: Committee Future Outlook Statement and Committee Three-Year Plan (Limit 1,500 words total)**Committee Future Outlook Statement**

As transportation infrastructure ages, highway agencies face a growing challenge to provide practical and cost-effective pavement evaluation and rehabilitation approaches. To meet these challenges, engineers are investigating innovative and emerging materials, structures and construction methods as well as implementing more advanced pavement mechanics, testing, and modeling approaches to better simulate long-term pavement performance. The TRB AKP40 committee is perfectly positioned to lead these efforts. For many years, the AKP40 committee has focused on pavement testing and evaluation using falling weight deflectometer (FWD) and accelerated pavement testing (APT) technology, but more recently greater attention has been given to APT and the usage of traffic speed deflection devices (TSDDs) has literally exploded over the past five years.

In light of the above, the short-term goal of the committee is to remain true to its history but future work will be broadened to cut across project, network, and strategic decision-making levels; making the committee work more applicable to other committees. This includes a wide range of activities from improved data collection procedures leading to higher quality data to improved data analyses techniques leading to more reliable decisions, whether they are based on data collected with FWDs, TSDDs or APT. The committee will work closely with other committees to make a significant impact in the pavement decision-making process. For example, AKP40 will work closely with the AFD50 and AFD60 design and rehabilitation committees to integrate the material and pavement characterization derived from FWDs, TSDDs, and APTs with design procedures. Similarly, it is important that AKP40 work with those laboratory material characterization committees to establish direct correlations with the material properties derived from field testing and APT, so that ultimately there is a one to one correlation between the two. This also applies directly to the scope of the AKP20 and AKP30 committees.

In summary, the committee will provide the lead to advance pavement structural testing and evaluation, and at the same time broaden work with the implementation of new technologies and decision-making strategies. The full potential of the committee will not be realized without working with other TRB committees on cross-cutting issues, which in turn will make the committee more agile and therefore have more resilience as issues change over the years.

Committee Three-Year Plan

TRB Committee AKP40, which resulted from the merger of committees AFD40 and AFD80, is proposing an ambitious set of goals and activities for its upcoming TSP. More specifically, the four strategic goals listed below, along with the primary activities under each goal, will be pursued:

- ***Goal 1. Support advancement and implementation of pavement response sensing and monitoring.***
 - Advance instrumentation and data acquisition for APT and structural pavement condition monitoring (FWDs, TSDDs or other).
 - Integration of pavement structural condition into the decision-making process at the project and network-levels.

- Integration of pavement performance data (from sensing and monitoring) with mechanistic-empirical pavement design methods to more accurately predict long-term performance.
- **Goal 2. Identify material characteristics and capacity for pavement design and performance goals.**
 - Investigate strategies to relate laboratory, TSDD and APT versus field-based material characterization and pavement structural performance.
 - Accelerated simulation of long-term environmental conditions of full-scale pavement systems for use with APT research.
 - Improve pavement structural modeling capabilities, which may include advancements in crack initiation and propagation simulations, modeling of various tire configurations, connected and autonomous vehicle platooning, etc.
- **Goal 3. Advance quality management of pavement structural condition assessment.**
 - Investigate the needs for deflection data quality management plans.
 - Address calibration, certification, validations and verification procedures of various monitoring equipment
- **Goal 4: Advance full-scale APT and TSDD state-of-the-art and state-of-the-practice**
 - Disseminate TSDD and APT research to accelerate implementation of research findings and strengthen interaction with researchers.
 - Quantify and document economic and other benefits of TSDD and APT on the knowledge and practice of pavement engineering through discussions, facility and agency surveys, and other activities.
 - Identifying emerging areas and issues in transportation where APT research can contribute.
 - Provide guidance and technical assistance to new APT facilities and to implementation of TSDD technology.
 - Disseminate APT results through monthly web-based research updates.
 - Promote the use of APT and empirical and mechanistic-empirical modeling methods as economical and effective tools for pavement performance prediction and decision making.

Within the context of the four strategic goals, continued development and implementation of the committee's Structural Testing and Evaluation RoadMap will be a critical element to strategizing and developing future efforts. This RoadMap details the tactical plan for addressing the committee's four strategic goals.

The plan for achieving the Committee's stated strategic goals is detailed in this section. At the heart of the plan are the members that make-up the Committee.

A major initial challenge to the newly merged committee will be to reduce its current membership, which consists of the combined AFD40 and AFD80 rosters totaling more than 60 members. The general approach to forming the new committee will be as follows:

1. It is anticipated that inactive members, volunteers, and multiple members from a single organization will make up the initial membership reduction.

2. The remaining membership must be balanced such that the three key committee areas are well balanced. These areas include routine pavement structural testing and evaluation, deflection technology and APT technology. This is not expected to be a major issue given the caliber of the current AFD40 and AFD80 membership.
3. The new committee must also be well-balanced in terms of gender, agency, academia, industry, consulting, and international representation as well as young and emeritus members. The biggest challenge will likely be State Highway Agency personnel, who are critical to many activities but they face ever-increasing restrictions on out-of-state travel.
4. Careful consideration must also be given to the selection of the committee's research needs coordinator as well as the communications coordinator.

It is expected that the new committee will be established by April 2021, and the AKP40 co-chairs will work with the TRB Representative and AKP00 Section chair to ensure a well thought-out plan is followed in the formation of the new committee. Under normal circumstances the TSP would address the topic of subcommittees; however, it is suggested that this topic be addressed as part of the 2021 committee meeting so that the focus area for each subcommittee are clearly defined and accepted by the majority of the committee membership. A subcommittee chair will also be identified at this time to lead the subcommittee. In summary, an update to the AKP40 TSP will be performed by April 15, 2021 that addresses changes to the committee's membership and addition of subcommittees.

Another important membership activity will be the merger of the AFD40 and AFD80 friends lists as well as the cleaning of the resulting list so that those on it are truly interested in being a friend, their areas of expertise are known, and their willingness in support the committee on specific activities is also known.

Beyond the Committee's membership, interactions with other TRB committees will contribute to achievement of the stated strategic goals. They include (using old committee designations):

- AFD10 Pavement Management Systems
- AFD20 Pavement Condition Evaluation
- AFD50 Design and Rehabilitation of Concrete Pavements
- AFD60 Design and Rehabilitation of Asphalt Pavements
- AFD90 Pavement Surface Properties and Vehicle Interaction
- AFH50 Concrete Pavement Construction and Rehabilitation
- AFH60 Asphalt Pavement Construction and Rehabilitation
- AHD18 Pavement Preservation
- AHD20 Pavement Maintenance
- AFS20 Geotechnical Instrumentation and Modeling
- AFK50 Structural Requirements of Asphalt Mixtures

The projects and activities the committee will pursue over the next three years, in support of the four strategic goals, include:

- Sponsor at least two workshops, one of them dedicated to TSDD technology and the other focused on APT technology. In addition, continue to co-sponsor workshops with

other committees such as the annual Pavement Performance Analysis Workshop (PAWS).

- Committee will hold, via conference call, a mid-year meeting each year. Agenda items for the meetings will focus on research topics, webinars, workshops and syntheses. Anticipated outcomes include at least one approved webinar per year and one approved synthesis for the three-year TSP period.
- In light of the new TSP scope and strategic goals, the committee will spend significant effort on RNS. Annual activities will include:
 - Revisit existing RNS and identify those that with limited or no changes will help meet the committee's goals.
 - Request members to identify new potential RNS in support of the committee's goals.
 - Discuss outcomes of the above two activities at the annual meeting and develop a short-list of RNS to advance.
 - Prepare draft RNS and discuss them at the mid-year meeting. Subsequent to the meeting, finalize RNS and identify candidate RNS champions.
 - Maintain and update the RNS database.
- Co-sponsorship of conferences such as the Bearing Capacity of Roads, Railways and Airfields (BCRRA), International Conference on Accelerated Pavement Testing, and the Deflections at Road Traffic Speeds (DaRTS) meetings will be given consideration as opportunities arise.
- Bridging the gap between research and practice will continue to be a focus activity area, which will be addressed via sponsorship of webinars and workshops such as those referenced earlier.

Active participation of committee members will be accomplished in multiple ways. Members will be required to complete paper review assignments, to participate in the annual and mid-year meetings, and to provide input on webinars, workshops, syntheses, RNS, subcommittees, and other committee activities. In addition, individual members or groups of members will take on leading roles such as:

- Research Coordinator
- Communication Coordinator
- Meeting Note Taker
- Subcommittee chair(s) (need of subcommittees to be determined in 2021)
- Chairs of podium and poster sessions
- RNS champions (or help identify and provide support to RNS champions; will look for leadership from State highway agency members)
- Liaisons with other TRB committees
- Member of webinar, workshop, syntheses and RNS working groups (Young members will be required to participate in at least one of these working groups)

In addition, guidance and wisdom will be solicited from the Committee's emeritus members, especially in matters relating to the Committee's strategic goals and direction.

Attachment A

2020 Annual Meeting
AFD40 – Full Scale Accelerated Pavement Testing

Committee Code	Session type	Title of Session
AFD40	Poster Session	Pavement Analysis and Design Using Full-Scale Accelerated Pavement Testing
AFD40	Workshop	Impact of Connected and Automated Vehicles on Pavement Design and Performance
AFD40	Published Meeting - Committee	Full-Scale Accelerated Pavement Testing Committee
AFD40	Lectern Session	Evaluation of Pavement Structures Using Full-Scale Accelerated Pavement Testing

2019 Annual Meeting
AFD40 – Full Scale Accelerated Pavement Testing

Committee Code	Session type	Title of Session
AFD40	Published Meeting - Committee	Full-Scale Accelerated Pavement Testing Committee
AFD40	Published Meeting - Committee	Accelerated Pavement Testing International Conferences Subcommittee, AFD40(1)
AFD40	Published Meeting - Committee	Accelerated Pavement Testing International Alliance Subcommittee, AFD40(2)
AFD40	Lectern Session	Improving Pavement Performance Using Accelerated Pavement Testing
AFD40	Poster Session	Improving Pavement and Infrastructure Design Using Accelerated Pavement Testing

2018 Annual Meeting
AFD40 – Full Scale Accelerated Pavement Testing

Committee Code	Session type	Title of Session
AFD40	Published Meeting - Committee	Full-Scale Accelerated Pavement Testing Committee
AFD40	Published Meeting - Committee	Accelerated Pavement Testing International Conferences Subcommittee, AFD40(1)
AFD40	Published Meeting - Committee	Accelerated Pavement Testing International Alliance Subcommittee, AFD40(2)
AFD40	Lectern Session	Improving Pavement Design Models Using Accelerated Pavement Testing
AFD40	Lectern Session	Accelerated Pavement Testing Advancements in Pavement Design

2020 Annual Meeting
AFD80 – Pavement Structural Modeling and Evaluation

Committee Code	Session type	Title of Session
AFD80	Poster Session	Pavement Structural Testing, Evaluation, and Modeling
AFD80	Published Meeting - Committee	Pavement Structural Modeling and Evaluation Committee
AFD80	Lectern Session	Pavement Structural Modeling and Evaluation
AFD80	Lectern Session	Network-Level Pavement Structural Evaluation
AFD80	Published Meeting - Committee	Mechanistic Characterization of Pavement Layers Subcommittee, AFD80(1)

2019 Annual Meeting
AFD80 – Pavement Structural Modeling and Evaluation

Committee Code	Session type	Title of Session
AFD80	Published Meeting - Committee	Mechanistic Characterization of Pavement Layers Subcommittee, AFD80(1)
AFD80	Published Meeting - Committee	Pavement Structural Modeling and Evaluation Committee
AFD80	Workshop	Use of Traffic Speed Deflection Device Data in Network- and Project-Level Pavement Decisions
AFD80	Lectern Session	Network-Level Pavement Structural Evaluation Using Traffic Speed Deflection Devices
AFD80	Lectern Session	Pavement Structural Modeling and Evaluation
AFD80	Poster Session	Modeling and Evaluation of Pavement Structures

2018 Annual Meeting
AFD80 – Pavement Structural Modeling and Evaluation

Committee Code	Session type	Title of Session
AFD80	Published Meeting - Committee	Mechanistic Characterization of Pavement Layers Subcommittee, AFD80(1)
AFD80	Published Meeting - Committee	Pavement Structural Modeling and Evaluation Committee
AFD80	Workshop	Next-Generation Pavement Management Systems: Incorporating Network-Level Structural Capacity Leading Indicators
AFD80	Lectern Session	Pavement Structural Modeling and Evaluation
AFD80	Lectern Session	Network-Level Pavement Structural Evaluation
AFD80	Poster Session	Pavement Structural Modeling and Evaluation

Attachment B

AFD40 Research Needs Statements

Effect of Accelerated Testing on the Rutting and Cracking Performance of Flexible Pavements

Committee: AFD40, Full-Scale and Accelerated Pavement Testing

Date Posted: 2/12/2009

Date Modified: 2/12/2009

Quantification of Benefits of Including Subsurface Drainage in Flexible Pavements

Committee: AFD40, Full-Scale and Accelerated Pavement Testing

Date Posted: 3/30/2007

Date Modified: 4/15/2007

Development of a Manual on Recommended Practice for Measuring the Response of Pavement Structures

Committee: AFD40, Full-Scale and Accelerated Pavement Testing

Date Posted: 3/30/2007

Date Modified: 4/15/2007

AFD80 Research Needs Statements

Closing the Gap between Network-Level and Project Level Pavement Evaluation

Committee: AFD20, Pavement Condition Evaluation

Date Posted: 4/25/2018

Date Modified: 5/11/2018

Pavement Design Moduli from Seismic Measurements

Committee: AFD80, Pavement Structural Modeling and Evaluation

Date Posted: 1/10/2007

Date Modified: 1/10/2009

Development of Guidelines for Consideration of Temperature Effects in Rigid Pavement Deflection Analysis

Committee: AFD80, Pavement Structural Modeling and Evaluation

Date Posted: 1/10/2007

Date Modified: 1/10/2009

Attachment C

Count of AFD40 Committee Members

U.S. Members	24
Non-US Members	7
Minority	8
Female	3

Membership Make-up

Region

Northwest	Southwest	Central	Northeast	Southeast	International
2	5	8	2	7	7

Slots

International	Emeritus	Young	Main	DOT
4	2	3	20	2

Employer

Federal	State	Academia	Industry	Consultant	Local	Other
3	5	16	2	5	0	0

Count of AFD80 Committee Members

U.S. Members	31
Non-US Members	6
Minority	12
Female	8

Membership Make-up

Region

Northwest	Southwest	Central	Northeast	Southeast	International
2	5	4	8	12	6

Slots

International	Emeritus	Young	Main	DOT
5	2	3	25	2

Employer

Federal	State	Academia	Industry	Consultant	Local	Other
2	6	20	1	8	0	0