

Guide to AASHTO Technical Service Programs & Products



Message from the Executive Director

On behalf of your American Association of State Highway and Transportation Officials, I want to thank you for your continued membership. AASHTO staff and I work hard to provide



high-quality technical services through our many member services and technical programs to support our member states in their efforts to efficiently and safely move people and goods, while advocating transportation related policies. We want to work with you, support you, and advocate for you as the voice of transportation.

In order to keep you apprised of AASHTO's various programs and benefits, we have created this overview. Inside you will find a description of member benefits, as well as summaries of specific technical service programs and the benefits that are provided to member states. Whether it is utilizing the Center for Excellence in

Project Finance, or attending a webinar through the Rail Resource Center, AASHTO's goal is to provide members with top quality service and a wide array of information.

Together, we can continue to build and maintain a world-class transportation system.

If you have any questions regarding AASHTO membership or services, please do not hesitate to contact me.

Sincerely,


Bud Wright
AASHTO Executive Director

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Overview of AASHTO

Our Vision

The American Association of State Highway and Transportation Officials is the voice for transportation and catalyst for organizational and technical excellence.

Our Mission

The American Association of State Highway and Transportation Officials advocates transportation-related policies and provides technical services to support states in their efforts to efficiently and safely move people and goods.

■ ***AASHTO Leads the Way***

AASHTO as the voice of transportation works to educate the public and key decision makers about the critical role that transportation plays in securing a good quality of life and sound economy for our nation. Representing all 50 states, the District of Columbia, and Puerto Rico, AASHTO serves as a liaison between state departments of transportation and the federal government operating under the protocols as set by the organization's Governing Documents. AASHTO is an international leader in setting technical standards for all phases of highway system development. Standards pertain to design, construction, operations, materials, and many other technical areas.

AASHTO serves as a catalyst for excellence in transportation by offering:

- Smart solutions and promising practices;
- Direct technical assistance to states; and
- Critical information, training, and data;
- Unparalleled expertise.

■ ***AASHTO's Top Priorities***

Every six years, Congress establishes funding levels and policy priorities for surface transportation, including highways and mass transit. MAP-21, which is the current authorizing legislation, expires on September 30, 2014. In addition, the Highway Trust Fund is in need of additional funds to remain solvent. The challenge is to shore-up the Trust Fund while, at the same time, securing a long-term program authorization.

AASHTO's Board of Directors, which includes the chief transportation officials from the 50 states, the District of Columbia, and Puerto Rico, has developed a comprehensive reform proposal that stresses performance management and accountability for results, while centering the program around key national objectives. This "back to basics" approach focuses on preserving and modernizing the current system, increasing safety, protecting the environment, and enhancing the quality of life of our citizens.

■ ***Highlights of AASHTO's 2014 Transportation Proposal Include***

- Preserving the fundamental program and policy reforms in MAP-21
- Continuing a vibrant and stable Federal funding role for our nation's surface transportation system
- Increasing state authority and flexibility in the administration of the Federal Highway Program
- Building on the project delivery streamlining and program simplification in MAP- 21
- Improving public transportation in urban and rural areas
- Supporting efforts to improve highway safety and reduce roadway fatalities

AASHTO's Board strongly supports a long-term, well-funded surface transportation bill that preserves contract authority, provides for rural and urban balance, and authorizes funding to preserve, modernize, and expand the surface transportation system to meet the needs of America.

AASHTO Member Benefits

■ *Technical Leadership and Assistance to States*

AASHTO is guided by a Board of Directors made up of the chief transportation officers from the 50 states, the District of Columbia, and Puerto Rico. The 12-member Executive Committee is led by AASHTO's officers, and is assisted by its executive director.

AASHTO's policy development, standards setting, and technical activities are the product of volunteer state department of transportation personnel who work through the AASHTO committee structure. The committees collaborate throughout the year and typically meet annually. These committees, which represent the highest standard of transportation expertise in the country, address virtually every element of planning, designing, constructing, operating, and maintaining transportation services.

■ *Management and Finance*

AASHTO offers its members training, services, and tools focused on project financing and oversight, public outreach, and participation in project planning and delivery as well as identifying cost-saving opportunities.

Customized project management services are offered through a partnership with the Logistics Management Institute, including on-site reviews and staffing to augment oversight capabilities. In addition, AASHTO is partnering with Global Risk Managers to offer owner-controlled insurance services.

■ *AASHTOWare*

AASHTO is the premier developer of transportation-related software products based on many of its standards, specifications, and guide documents, which are designed specifically to meet the needs of today's transportation agencies. The AASHTOWare technical service program is based on a "best practices" approach. It allows member agencies to pool their resources to produce software at a significant cost savings. www.aashtoware.org

■ *National Transportation Management Conferences*

AASHTO's National Transportation Management Conferences, a series of one- and two-week courses, provide new transportation managers with an introduction to fundamental management concepts and help more experienced middle-managers reinforce existing skills.

■ *Engaging the Public in Support of Transportation*

As the Voice of Transportation, AASHTO works to build public support and recognition for a solid transportation system, which is the foundation for the nation's future success. Through its outreach campaign, AASHTO works to generate media attention, sponsor events, and create communications tools to get this message out to the public.

Through reports highlighting the fiscal and physical conditions of the nation's highways, bridges, and transit, and by using events and other opportunities to engage the public in a national dialogue on the web, in print, and through face-to-face meetings, AASHTO will continue to showcase the smart solutions being offered by states to the many transportation challenges ahead.

■ *News and Communications*

AASHTO publishes daily and weekly news products and maintains an extensive website as part of its efforts to communicate the latest information on the association and the transportation industry to our members and other interested parties. Electronic subscriptions are available free of charge at **news.transportation.org**

The *Daily Transportation Update* is published every business day. It contains links to transportation stories published across the country and Federal Register notices pertaining to the transportation sector.

The weekly *AASHTO Journal* reports on transportation news at the federal and state levels.

Transportation TV is AASHTO's comprehensive web channel, presenting thought-provoking, industry-related videos, at **TransportationTV.org**. You can also follow AASHTO on Facebook (**www.facebook.com/AASHTOspeaks**) and Twitter (**www.twitter.com/AASHTOspeaks**).

■ *Transportation.org*

AASHTO's website, **transportation.org**, contains more than 100,000 pages of information about every facet of the association including hot topics, news, press releases, the AASHTO bookstore for publications sales, awards, membership, committees, programs, meetings, presentations, software, and other resources.

■ *AASHTO Mobile*

AASHTO Mobile app offers transportation news on the go and real-time traffic anywhere in the United States. Download either AASHTO's iPhone or Android versions of the app from **aasht.to/aashtomobileapp**.

■ *Showcasing Smart Solutions and Promising Practices*

Standards and Technical Publications

Through AASHTO, the nation's preeminent transportation experts come together to advance the state of the art in transportation from design standards to environmental practices. Through their work, AASHTO develops and publishes more than 125 volumes of standards and guidelines that are used worldwide in the design, construction, maintenance, operation, and administration of highways, bridges, and other transportation facilities. They are available at **bookstore.transportation.org**. Members receive 10 free copies of each title AASHTO publishes.

Center for Environmental Excellence

The Center provides technical assistance, training, information exchange, partnership-building opportunities, and quick-and-easy access to environmental tools for our member departments. It promotes environmental excellence in the delivery of transportation services by encouraging environmental stewardship and disseminating innovative ways to streamline the transportation delivery process. The Center's website, **environment.transportation.org**, provides a clearinghouse of environmental information for transportation professionals, including federal activity, research, best practices, and environmental tools.

Center for Excellence in Project Finance

Established by Congress, the Center provides an array of services to help equip senior transportation executives and finance professionals to better understand the policy ramifications of new financing approaches and more effectively employ various techniques. The Center offers extensive professional training and educational opportunities in partnership with the Wharton School at the University of Pennsylvania, research and consulting services, and comprehensive information on transportation finance to all state DOTs. The Center also offers consulting services to state DOTs and funds research in program and project finance.

Additional Technical Service Programs

All of AASHTO's Technical Service Programs (TSPs) have the accountability and obligation to serve AASHTO members. As an AASHTO member department, you have a say in setting the direction for these AASHTO programs. These programs were created by vote of the AASHTO Board of Directors to fulfill specific needs and to pool resources to build a much stronger national program than any one DOT could create on its own. State DOTs can use these programs instead of spending the money, time, and resources to create their own programs, or as a complement to their existing programs and processes. Funding for these programs is provided through voluntary contributions from participating state DOTs. Below please find the Technical Service Program listings and descriptive summaries of the benefits that each AASHTO's technical programs can provide.

■ *AASHTO Technical Service Programs*

Program Name	Annual Contribution
AASHTO Materials Reference Laboratory (AMRL)	\$20,000
Cooperative Computer Software Development Program (AASHTOWare)	Varies
Environmental Technical Assistance Program (ETAP)	\$8,000
Equipment Management Technical Services Program (EMTSP)	\$3,000
Load and Resistance Factor Design (LRFD) Bridges and Structures Specification Maintenance	\$10,000
Multi-State Technical Assistance Program (MTAP)	\$5,000
National Transportation Product Evaluation Program (NTPEP)	\$12,000
AASHTO Product Evaluation Listing (APEL)	\$1,200
AASHTO Rail Resource Center	\$5,000
Highway Safety Policy and Management Technical Service Program	\$10,000
Snow and Ice Cooperative Program (SICOP)	\$4,000
Sustainable Transportation: Energy, Infrastructure, and Climate Solutions (STEICS)	\$10,000
Technical Service Program to Develop AASHTO Materials Standards (DAMS)	\$5,000
Technology Implementation Group (TIG)	\$6,000
Transportation System Preservation Technical Service Program (TSP2)	\$20,000
Transportation and Civil Engineering (TRAC) and RIDES	\$7,500
Transportation Curriculum Coordination Council (TC3)	\$ 20,000

AASHTO Materials Reference Laboratory (AMRL)

• Website: www.amrl.net

Related AASHTO Committees: **Highway Subcommittee on Materials**

■ *Program Overview*



The programs of the AASHTO Materials Reference Laboratory (AMRL), along with the AASHTO Accreditation Program (AAP), and the Cement and Concrete Reference Laboratory (CCRL) program provide technical services that demonstrate the quality of your agency's construction materials quality assurance and testing program, and protect the

department from those who might question your test results and overall program. These programs provide objective evidence demonstrating the continued quality and accuracy of tests performed by your agency and others that perform construction materials testing for the department.

FHWA requires laboratory accreditation for state DOT central laboratories, as well as for any laboratories performing IA sampling and testing for the state, to ensure the quality of materials and workmanship incorporated into each Federal-aid highway construction project. AAP is respected by many federal agencies—FHWA, FAA, and the U.S. Army Corps of Engineers, to name a few—as being unbiased and above reproach.

■ *State DOT Benefits*

AASHTO provides the states with assessment and proficiency sample programs that are stronger than those that any individual state could provide using state funds to accomplish similar purposes. These programs are recognized as the most thorough and detailed assessments, and the largest proficiency sample programs available for evaluating the performance of construction materials testing laboratories. States can confidently rely on these programs as a part of a sound and thorough quality strategy.

States can use the AMRL specifier functionality and alerts to easily monitor the accreditation status and performance of all laboratories which provide testing on state and federal projects.

Many improvements to AASHTO methods have come about as a result of information obtained in the field from AMRL and CCRL assessments. AMRL also continually performs research related to the test methods (precision, procedural investigations, development of new procedures, etc.) to serve the DOTs and improve the methods. These services and others are provided to the state DOTs at no additional cost.

The AMRL and CCRL assessment and proficiency sample programs are the largest programs of their kind, which demonstrates the confidence that specifying agencies have in them. These are established programs (CCRL was founded in 1929; AMRL was founded in 1965) that have honed and refined themselves over the years to better serve the customer. As an AMRL sponsor, each department pays \$20,000 per year to receive all AMRL and CCRL primary services, which is less expensive than the cost that the state would need to pay to internally duplicate or externally provide all of these services apart from AASHTO.

Annual Contribution: \$20,000

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Cooperative Computer Software Development Program (AASHTOWare)

• Website: www.aashtoware.org

Related AASHTO Committees: **Special Committee on Joint Development**

■ Program Overview



The AASHTOWare® program allows member agencies to employ a cooperative approach to software development that incorporates best practices and enables DOTs to pool resources to address the common problems and challenges that each DOT faces in performing their mission. Software under the AASHTOWare® program is designed by DOT experts for DOTs and delivered by private sector contractors. AASHTO owns the resulting products on behalf

of all its members and licenses them on an annual basis. The program is fully self-supported and runs on a non-profit basis. License revenue covers all program expenses, including software support, maintenance, and enhancements services provided by contractors, administrative expenses such as travel expense reimbursement to volunteers that serve on product oversight task forces, and related staff costs.

■ State DOT Benefits

For many years, the member departments of AASHTO have recognized the benefits of joining together in cooperative efforts to develop, maintain, and enhance computer software products jointly. The AASHTOWare® Program develops specialized software products in such areas as bridge design and rating, pavement design, construction, contract administration, and safety. By joining together to address commonly perceived needs and problems, groups of AASHTO member agencies can realize significant economies of scale, reduce the costs of such activity to each member department, produce more robust and better maintained products, and foster product user groups to exchange information and to suggest useful enhancements and improvements. Moreover, the member agencies are in effect the “owners” of the software products that AASHTO licenses on their behalf, ensuring that they are properly maintained and enhanced at their direction.

Annual Contribution: *Varies depending on licensing options selected by agency.*

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Environmental Technical Assistance Program (ETAP)

Related AASHTO Committees: **Standing Committee on Environment**

■ *Program Overview*

The Environmental Technical Assistance Program (ETAP) is a critical resource for state departments of transportation that provides cost-effective services and timely information to assist state DOTs in meeting the difficult challenge of delivering their transportation programs in a timely and environmentally responsible manner. The goal of ETAP is to supply AASHTO members with the tools and resources necessary to enhance your department's program delivery, environmental streamlining, and environmental stewardship. ETAP allows AASHTO staff to collaborate with the state DOTs and other topical experts to develop comments on relevant proposed federal legislation, regulations, and guidance. ETAP also provides opportunities for partnership building and collaborative problem solving among state and federal transportation and environmental organizations.

■ *State DOT Benefits*

ETAP supports national meetings for members on important environmental topics, such as stormwater and air quality; provides members of the Standing Committee on Environment the ability to participate in environmental conferences of national importance; and supports the development of comment letters to federal agencies on proposed rules and guidance, including topics such as stormwater, wetlands, air quality, and historic resources. All contributing members of ETAP receive the Bureau of National Affairs' (BNA) Transportation/Environmental Alert. This weekly newsletter highlights the latest developments in the field of transportation and environmental management, compliance, and stewardship, including federal legislative and administrative actions, State DOT case studies, and AASHTO program updates.

Annual Contribution: \$8,000

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Equipment Management Technical Service Program (EMTSP)

• Website: <http://www.emtsp.org>

Related AASHTO Committees: **Subcommittee on Maintenance and its Equipment Technical Working Group**

■ Program Overview

State highway agency equipment fleets represent a significant capital investment and also require recurring maintenance and operational expenditures. Fleet assets are vital to the delivery of agency programs, projects, and services. Efficient management of these assets can yield significant savings as well as improved performance and reliability. Integrating Asset Management strategies into the management of an equipment fleet can improve performance in all facets of fleet operations.

■ State DOT Benefits

The Equipment Management Technical Service Program (EMTSP) complements the on-going work and priorities of the AASHTO Highways Subcommittee on Maintenance Equipment Technical Working Group (TWG) and is managed through the National Center for Pavement Preservation. Specific goals and accomplishments of the EMTSP include the following:

- Advancing fleet best management practices;
- Promoting the awareness of available equipment technologies;
- Monitoring and disseminating information regarding proposed regulatory changes and new research;
- Facilitating the development of AASHTO guides from appropriate research topics such as *Guidelines for Selection and Application of Warning Lights on Roadway-Operations Equipment* and the *AASHTO Equipment Reference* book;
- Formalized partnerships with regional networks of DOT equipment managers, industry partners, and academia, and collaboration with other national equipment and transportation maintenance committees, including TRB committee AHD60 Maintenance Equipment and the AASHTO Winter Maintenance Technical Service Program (WMTSP); and
- Technology transfer initiatives through an interactive website (<http://www.emtsp.org>) and listserv for fleet managers seeking technical information.

Annual Contribution: \$3,000

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Load and Resistance Factor Design (LRFD) Bridges and Structures Specification Maintenance

• Website: <http://bridges.transportation.org>

Related AASHTO Committees: **Subcommittee on Bridges and Structures**

■ *Program Overview*

The AASHTO Highway Subcommittee on Bridges and Structures unanimously approved a resolution in May 2006 that stated that in order to keep the AASHTO Bridge specifications the most current, useful documents possible, a technical service fund was needed. This technical service program provides LRFD and all bridge-related specifications funds for needed research and development to maintain quality documents.

■ *State DOT Benefits*

Funding over the past few years has paid for technical assistance and support contracts in the areas of seismic design, accelerated construction, element level bridge inspection issues, and load-rating issues for the Subcommittee on Bridges and Structures members as well as research and software development on bridge management (AASHTOWare). The funding has also been used to develop new guidelines for Bridge Security Design, make updates to bridge bearing design specifications, and support updates to the loading requirements for bridges. Also, each year 6 to 8 technical committees are able to meet face-to-face for mid-year meetings where specifications are updated and research proposals are written.

Annual Contribution: \$10,000

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Multi-State Transit Technical Assistance Program (MTAP)

• Website: www.mtap.org

Related AASHTO Committees: **Standing Committee on Public Transportation**

■ Program Overview



The Multi-State Technical Assistance Program (MTAP) enables state transit agencies to network and efficiently solve technical problems through a variety of peer exchange opportunities. MTAP helps state DOTs implement Federal Transit Administration programs, provide feedback to FTA on implementation issues and best practices and to create a professional network to share best practices, receive technical assistance and obtain new ideas from other states. MTAP links state transit agencies through a host of services including information exchange on federal regulations, grant program reporting requirements, public transportation funding and state oversight of transit systems. Roughly 43 member departments contribute yearly to support MTAP.

■ State DOT Benefits

The MTAP Program annually hosts three meetings for members to network, discuss topics and issues of significance, share best practices and collaborate with FTA and other organizations. During the course of the year MTAP provides a host of information to member states including technical information and assistance, publications including a quarterly newsletter, best practices information, an integrated alert system, training classes and networking assistance.

MTAP participates in the NCHRP 20-65 research program to help further the development of research to respond to public transportation issues of importance to the Standing Committee on Public Transportation (SCOPT), AASHTO and the state departments of transportation.

Annual Contribution: \$5,000

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National Transportation Product Evaluation Program (NTPEP)

• Website: <http://www.ntpep.org>

Related AASHTO Committees: **Subcommittee on Materials**

■ Program Overview



NTPEP was established by the AASHTO Board of Directors in 1994 to cooperatively test manufactured transportation products that are of common interest to all member departments and share the results from these laboratory and field evaluations. The program is evaluated every four years for financial viability, its effectiveness, the funding mechanisms to support it, and the need for its continuance. NTPEP is run through a joint funding concept between participating Industry and AASHTO members, with revenue from industry being used primarily for the testing of and reporting on their products, and with voluntary member dues used primarily for support services to administer NTPEP.

■ State DOT Benefits

By pooling the physical and professional resources of member departments, NTPEP is able to provide coordinated evaluations on various products and materials in the areas of traffic safety, construction, and maintenance. This program allows our member departments to save both money and personnel resources for the initial activities of qualifying products for use in construction and maintenance activities.

Annual Contribution: \$12,000

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AASHTO Product Evaluation Listing (APEL)

• Website: <http://apel.transportation.org>

Related AASHTO Committees: **Subcommittee on Materials**

■ Program Overview

APEL is a web-based technical service program that serves as a clearinghouse for state-level evaluation and testing of new and/or proprietary engineered transportation products. The program allows manufacturers to submit products online for evaluation to multiple agencies. For the member departments, the program allows agencies to customize and automate the work flow process for new product evaluations. The program also shares individual member departments' product evaluations for the benefit of AASHTO, which lowers the evaluation costs. The APEL Council under the Subcommittee on Materials is charged with program guidance and development.

■ State DOT Benefits

This program offers a way for member departments to share knowledge on innovative products and materials. The reports from the APEL site can be utilized to certify proprietary products for use on projects that will receive federal funding and share evaluation results for reference by all state member departments.

Annual Contribution: \$1,200

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AASHTO Rail Resource Center (ARRC)

• Website: <http://www.highspeed-rail.org>

Related AASHTO Committees: **Standing Committee on Rail Transportation and Special Committee on Inter-modal Transportation and Economic Expansion**

■ Program Overview



The AASHTO Board of Directors has determined it is essential that AASHTO provide state rail programs technical and functional support similar to that which is provided to state highway programs. The AASHTO Rail Resource Center (ARRC) supports states in their efforts to establish and maintain passenger and freight rail programs that are expanding significantly in terms of both funding and responsibility. AASHTO and FRA partner in various phases of the support program and work with other partners to identify areas where such support will be most appropriate and beneficial. ARRC provides assistance through webinars, peer-to-peer exchanges, meetings, internet exchanges and publications. Funding will be provided by member state commitments, corporate sponsors and the Federal Railroad Administration.

■ State DOT Benefits

The AASHTO Rail Resource Center (ARRC) supports states in providing technical expertise through webinars, peer exchanges and publications. The movement of freight and passengers via rail is growing rapidly, and states are being asked to develop rail programs that support passenger and freight mobility. The ARRC is a unique opportunity, not available elsewhere, for states to share information and is a resource to develop best practices that can be used by states across the United States.

Annual Contribution: \$5,000

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Highway Safety Policy and Management Technical Service Program

Related AASHTO Committees: **Standing Committee on Highway Traffic Safety and Subcommittee on Safety Management**

■ Program Overview

AASHTO member departments coordinate and cooperate with other public safety agencies and highway safety partners to develop and implement programs for improving safety on all public roads. The Highway Safety Policy and Management technical service program supports member departments' and AASHTO's highway safety efforts. This program began as the Safe, Reliable, and Secure Transportation Operations program and is being modified to reflect its focus on highway safety.

To work toward the goal of reducing highway fatalities by half in two decades, and reflecting the partnerships state DOTs have, AASHTO participates in the State Highway Safety Alliance to coordinate positions on transportation funding; the Toward Zero Deaths national steering committee to promote AASHTO's perspectives on developing and implementing a national strategy on highway safety; and in efforts with individual safety partners representing the multidisciplinary approach to highway safety. This program supports the role of the AASHTO Program Manager for Safety in these activities and others, such as *Highway Safety Manual* development and implementation and update of the *AASHTO Strategic Highway Safety Plan*. It also supports staff efforts to revise and implement safety-related publications and to coordinate AASHTO input into publications of other organizations.

■ State DOT Benefits

Under this program AASHTO staff support the *Highway Safety Manual* including coordination of activities with partners such as TRB and FHWA, providing technical support and supporting state implementation efforts. Also, AASHTO staff are supporting the national steering committee leading the development of the national strategy on highway safety (Toward Zero Deaths). Additional coordination takes place with other safety partners, such as participation in meetings and speaking at conferences to represent AASHTO and state interests and convey information on current activities, as well as gathering information to incorporate into AASHTO committee discussions and plans. AASHTO staff serves as a clearinghouse for information on safety programs for the member departments and provides input to performance management and legislative activities from the safety perspective.

Annual Contribution: \$10,000

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Snow and Ice Cooperative Program (SICOP)

• Website: <http://www.sicop.net>

Related AASHTO Committees: **Subcommittee on Maintenance**

■ *Program Overview*

SICOP is a pooled-fund effort established by AASHTO in 1994 to identify and fund a series of high priority winter maintenance research and technology transfer projects. Also, if warranted, some SICOP participants contribute additional pooled funds to support one or more specific projects in which they have a special interest. SICOP membership includes the AASHTO member departments, American Public Works Association of County Engineers (APWA), and National Association of County Engineers (NACE).

In 2005, SICOP partnered with the Clear Roads Consortium, www.clearroads.org, on the development of computer-based training (CBT) modules for winter maintenance snow and ice control operations in the areas of Equipment Maintenance, Proper Plowing Techniques, Deicing, Blowing Snow Mitigation, and Winter Maintenance Management. In 2006, SICOP partnered with FHWA in developing and supporting the Eastern Snow Expos. These Expos were developed following the "Blizzard of 1996," which nearly paralyzed transportation in the Northeastern states. See www.easternsnowexpo.org for more information.

Two additional training programs were developed using research results from NCHRP projects. In April 2009 a CBT entitled "Selecting Snow and Ice Control Materials to Mitigate Environmental Impacts" was completed and in April 2010 a CBT entitled "Performance Measures for Snow and Ice Control Operations" was completed. Both CBTs were distributed to state DOTs, APWA and NACE.

■ *State DOT Benefits*

Most state DOTs have incorporated the CBTs into their winter maintenance training curriculum. This foundational training has proven essential to understanding and implementing the proactive snow and ice control operations that the motoring public has come to expect. Effective utilization of the underlying principles will be necessary in meeting the challenges of sustainability in snow and ice control operations. The functionalities developed in the Highway Maintenance Concept Vehicle project are now standard equipment for state DOT new equipment purchases.

Annual Contribution: \$4,000

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Sustainable Transportation: Energy, Infrastructure, and Climate Solutions (STEICS)

• Website: <http://climatechange.transportation.org>

Related AASHTO Committees: **STEICS Steering Committee**

■ *Program Overview*

The Sustainable Transportation: Energy, Infrastructure, and Climate Solutions Technical Assistance Program (STEICS TAP) is a voluntary pooled-fund program that provides timely information, tools, and technical assistance to assist AASHTO members in meeting the difficult challenges that arise related to energy efficiency, infrastructure adaptation for extreme and high weather events, alternative vehicles and fuels, and other relevant topics.

■ *State DOT Benefits*

STEICS TAP provides a number of services to the state Departments of Transportation including, but not limited to webinars, workshops, conferences, and a website highlighting climate change and infrastructure adaptation resources for the transportation sector. This program recently hosted a SCOH workshop on Adapting Infrastructure to Extreme Weather Events, and will continue to work with SCOH and other AASHTO Committees on issues related to adapting infrastructure, design, construction, maintenance, operations and emergency response practices to high and extreme weather events.

Annual Contribution: \$10,000

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Technical Service Program to Develop AASHTO Materials Standards (DAMS)

Related AASHTO Committees: **Subcommittee on Materials**

■ *Program Overview*

The primary functions of this AASHTO Technical Service Program are supporting the development of new standards and revisions and updates to current standards. The financial support provides a resource for the involvement of independent technical writers in the development of new specifications and major revisions of current specifications.

■ *State DOT Benefits*

These funds assist in expediting development of these important documents and allow the subcommittee members to better manage the time they have for subcommittee work.

Annual Contribution: \$5,000

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Transportation Curriculum Coordination Council (TC3)

• Website: <http://tccc.gov>

Related AASHTO Committees: **Standing Committee on Highways; Subcommittees on Construction, Maintenance, and Materials**

■ *Program Overview*

TC3 has been established as a TSP by AASHTO in 2013 to continue the FHWA pooled fund project work to improve training opportunities for transportation technical workers and apply innovative measures to reduce duplication of efforts and costs to state and local transportation agencies.

■ *State DOT Benefits*

The TC3 provides states with the following benefits:

- **Cost savings:** TC3 allows states to cost effectively train staff with quality and relevant course material, saving money and avoiding duplication.
- **Innovation:** courses provided by TC3 are developed through a collaboration of national best practices and content matter experts.
- **Skilled workforce:** as the current workforce retires, TC3 is dedicated to help protect against the loss of knowledge for the new workforce through quality training.

The funds contributed to the TC3 program will be used primarily for curriculum hosting and management, marketing activities, administrative costs, and expenditures to cover new course development. The intent is to move to a self-funded program scenario within five years.

Annual Contribution: \$20,000

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Technology Implementation Group (TIG)

• Website: <http://tig.transportation.org>

Related AASHTO Committees: **Standing Committee on Highways, Research Advisory Committee**

■ Program Overview



TIG was established to identify and champion the implementation of a select few “ready to use” technologies, products, or processes that are likely to yield benefits to the users. TIG scans the horizon for outstanding advancements in transportation technology and invests time and money to accelerate their adoption by agencies nationwide.

Each year, TIG selects several highly valuable, but largely unrecognized procedures, processes, software, devices, or other innovations that have been adopted by at least one agency, are market ready, and are available for use by other interested agencies.

In its nine years of existence, TIG has selected 20 Focus Technologies for accelerated implementation and has promoted these to AASHTO members through workshops, peer exchanges, and presentations at AASHTO Subcommittee meetings. TIG is in the fourth year of featuring Additional Selected Technologies. This is a low-cost alternative for officially endorsing and promoting more technologies each year without the full expense of more Focus Technologies.

■ State DOT Benefits

TIG’s objective is to assist in the implementation of new technologies. This objective is accomplished through two processes: Focus Technologies and Additional Selected Technologies (AST). The Focus Technologies entail the formation of a Lead State Team, which is charged with sharing information with AASHTO member agencies, local agencies, and their industry partners to improve the Nation’s transportation system. The AST is a white paper touting the benefits of the Technology. These processes benefit states by assisting DOTs with the implementation of new technologies.

Annual Contribution: \$6,000

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Transportation System Preservation Technical Service Program (TSP2)

• Website: <http://www.tsp2.org>

Related AASHTO Committees: **Subcommittee on Maintenance**

■ *Program Overview*

In this increasingly tight economy, participation in the TSP2 program helps the state DOTs preserve not only their pavements but their bridges as well. TSP2 fulfills the research, technical, and program requirements of the member states by helping them to develop and implement their own preservation programs. Program staff field questions and provide technical guidance on preservation issues such as pavement and bridge treatments, materials, strategies, and best practices.

■ *State DOT Benefits*

AASHTO, in collaboration with the National Center for Pavement Preservation, has successfully implemented this technical service program. An Oversight Panel guides the implementation and operation of the TSP2 program, including representation from the AASHTO Subcommittees on Bridges and Structures, Maintenance, Materials, Asset Management, Design's Joint Technical Committee on Pavements, as well as members from each of the AASHTO regions. Continued accomplishments and resources provided by the program to member states are listed below:

- Technology transfer initiatives in the form of conferences, webinars, articles for publication in trade magazines, and media strategies, brochures, and guides.
- A maintained and functional website that is updated with all of the latest preservation information and links.
- A web-based bulletin board and Listserv to provide an effective means for agency practitioners who are geographically dispersed to discuss topics of common interest related to preservation.
- A reference library with an extensive and current on-line technical reference collection.
- A help desk to provide ready response to preservation inquiries by way of telephone, email, or fax.

Annual Contribution: \$20,000 (\$9,500 for Pavement Preservation, \$10,500 for Bridge Preservation)

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Transportation and Civil Engineering (TRAC) and RIDES

• Website: www.trac.net

Related AASHTO Committees: **Special Committee on TRAC**

■ Program Overview



The TRAC program grew out of the need for new civil engineering and other professionals to enter the field of transportation. TRAC was established as an ongoing AASHTO Student Outreach Program aimed at encouraging students in grades 5 through 12 to pursue civil engineering and transportation curriculum in colleges and universities to be followed with a career in said fields. The TRAC program works by providing schools with curriculum enhancements that demonstrate engineering and transportation principles. The program has sent trained transportation volunteers into the classroom to work directly with students. A recent partnership with Mississippi will provide a new opportunity for states to begin workforce development as early as Kindergarten with RIDES, Roadways Into Developing Elementary Students. RIDES introduces elementary students to engineering and transportation careers with activities that emphasize classification, sequencing, and graphing process skills. Additionally, it helps students make the connection between various modes of transportation and the environment, and links simple machines, humans and transportation to energy types, propulsion and "fuel types." In order for the TRAC and RIDES Programs to continue, there is a need for direct funding from each participating state and a recommitment from AASHTO to provide additional funds to maintain a permanent Program Manager.

■ State DOT Benefits

TRAC (Transportation and Civil Engineering), and RIDES (Roadways Into Developing Elementary Students), are hands-on educational outreach programs that enhance math and science skills while connecting students to the work world of transportation. Students who participate in the programs understand the connection between the courses they are taking in school and the world of work. As a result, they are more inclined to take higher level math and science courses and are better prepared to enter the workforce. In addition, the programs provide the opportunity for students to use the same software engineers use in the field, which provides valuable experience prior to entering the workforce.

Annual Contribution: \$7,500

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AASHTO Invoicing Schedule

AASHTO Annual Membership Dues	January
Multi-State Technical Assistance Program (MTAP)	May
AASHTO Materials Reference Laboratory (AMRL).....	October
AASHTOWare.....	July
AASHTO Technical Service Programs.....	July

If you have any questions regarding your invoices please contact:



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