Technical Council Committee Mission Statements

Atmospheric Processes & Measurements (Air) Group

Atmospheric Processes Division (AP)

Atmospheric Chemistry (APC) TCC
This committee stimulates research and development of work in all areas of air pollution chemistry. This includes ambient air pollution studies, measurements and analysis methods, modern analytical techniques, photochemistry, atmospheric deposition, fog chemistry and secondary aerosols formation. The committee also provides forums for presentation of emerging research in these areas and sponsors reviews of articles and informative reports on these subject areas.

Atmospheric Modeling and Meteorology (APM) TCC
The mission of the Atmospheric Modeling and Meteorology Committee is to encourage and facilitate the development, advancement, and use of state-of-the-art methods of meteorological and atmospheric dispersion analysis as a foundation for effective environmental design of air emissions sources and for assessment of environmental impacts of air emissions.

Visibility and Radiative Transfer (APV) TCC
This committee is concerned with understanding the sources, physical and chemical mechanisms, effects, monitoring techniques, and human perception of air pollution on atmospheric optical properties.

Measurements, Monitoring and Controls Division (AA)

Measurement Techniques and Instrumentation (AAM) TCC
This committee provides forums for the presentation and discussion of novel methodologies, both in situ and remote methods, for measurement of gaseous and particulate air pollutants. Aspects covered include new instrument development, sampling methodology, data acquisition, calibration, quality assurance and quality control, and the assessment of the adequacy and accuracy of both continuous and integrated methods for air monitoring. The committee also provides expertise in industrial and environmental monitoring technologies to the A&WMA, technical community, regulatory agencies, and industry.

Emission Inventory and Data Application (AAE) TCC
This committee provides a forum for the development, evaluation, and data applications of emission inventory systems. It also promotes the use of new, innovative, efficient, more accurate, and advanced techniques in estimating emissions for a variety of sources and preparing modeling-ready emission inventories to meet the challenges posed by emerging global, national, regional and local air quality issues.

Control Technologies (AAC) TCC
This committee provides a forum for discussion and development of air pollution control technologies for acid gases, particulate matter, oxides of nitrogen, and volatile organic compounds), and air toxics. The committee encourages exchange of operational data, improvements in existing control systems, and innovative control technologies for addressing current and future stringent air pollution control requirements. The committee's goal is to develop a broad communication between developers, designers, researchers, regulators, and users of air pollution control technology to share and collaborate in improving the state of the technologies and its operations.

Environmental Management Group

Effects and Exposure Division (EE)

Health Effects and Exposure (HEE) TCC
The purpose of this committee is to encourage research on the exposure to and effects of environmental contaminants with an emphasis on but not limited to airborne contaminants. The committee provides an international forum for presentation and discussion of the findings resulting from such research.

Risk Assessment and EHS Management (RAM) TCC
The purpose of this committee is to explore the role of risk assessment in environmental management and track trends in environmental, health, and safety (EHS) management systems. This committee provides forums on emerging trends in methods and tools for human health and ecological risk analysis, strategic auditing and compliance practices, and innovative EHS management information systems.

Odors (ODR) TCC
This Committee provides a forum for the discussion of issues associated with odorous pollution in the following areas: 1) measurement and monitoring; 2) community impact; 3) mitigation and control strategies, and 4) regulatory statues. It serves as a forum for the discussion of odor pollution on an international, national, state and local levels as well as industry specific issues.

Program Administration Division (EP)

Regulations, Legal Issues and Permitting (REG) TCC
This committee provides a forum for the discussion, evaluation and interpretation of policies, regulations and strategies pertaining to air pollutant emissions, including key developments in air regulations and permitting; court cases; federal, state and local environmental agencies' formal and informal policy determinations; and EPA's and other agencies' policy and rule-making agendas. Our mission is to (1) identify relevant issues of interest and concern to A&WMA members, (2) provide opportunities to discuss these through technical sessions,

specialty conferences, and other venues, and (3) assist A&WMA members in responding to the issues in ways that appropriately fit their needs. The REG TCC additionally provides one of the principal means for EPA to communicate regulatory updates to A&WMA's membership.

Economics, Partnering and Environmental Leadership (EPE) TCC
This committee provides a forum to present, discuss, and foster an awareness of:
1) developments in environmental economics (systems risk, life cycle & cost benefit analysis of projects initiatives, challenges and solutions), 2) environmental partnering, affiliated groups (associations, organizations, societies) information sharing on programs/events/educational opportunities and collaborations, and 3) environmental leadership initiatives and programs (ranging from compliance, pollution prevention, and strategic environmental management systems implementations to demonstrations of leadership in sustainability).

The EPE committee's objectives are to:

- Enhance member decision-making regarding the environment, engineering economics, and natural resources, minimizing adverse impacts
- Explore partnering/affiliation opportunities for professional development (for training webinars, courses, conferences, symposiums/workshops) to leverage organizational resources
- Recognize environmental management leadership and its successes across programs and media types.

The EPE committee therefore promotes/sponsors technical sessions featuring: environmental economic case studies and analysis, on-going & potential partnering/affiliation opportunities for members, and the showcasing of environmental leadership initiatives in Industry, Government (Federal, State, local), in Business (public & private). All A&WMA members are welcomed and encouraged to participate.

Public Participation (PUB) TCC
This committee provides a forum for the discussion of issues involved with the public participation in regulatory and industrial issues. Topics include siting of sources, commenting on permits, public participation in State Implementation Plans, education and citizen monitoring. This group is interested in both how to reach out to and inform the public as well as how to manage public expectations.

Transportation Division (ET)

On and Off Road Mobile Sources (OMS) TCC
The purpose of this committee is to explore the environmental consequences of transportation on and off road, on- and off-road equipment, and transfer points (passenger or freight). The committee provides a forum to discuss issues associated with emissions, air quality and health impacts. It also gives room to any transportation-related topics, modeling, monitoring, climate change and others.

Transportation Policies and Land Use (PLU) TCC
This committee provides a forum for the discussion of issues involved with the air quality benefits of land use activities connected to air quality and transportation planning. Since motor vehicles contribute a large portion of the air pollution all over the county, this committee also studies programs and policies which promote alternative means of transportation, such as carpooling, telecommuting, the use of clean vehicle technologies, pedestrian and transit-oriented design in new developments.

Community Noise and Vibration (CNV) TCC
This Committee provides information and a forum for professional interaction on the important environmental topics of noise and vibration for A&WMA members. The committee is structured to fulfill a need of the professional community by concentrating on noise and vibration impacts on community sources, primarily transportation.

Industry, Power, Government and Indigenous Sectors Group

Industry and Nanotechnology Division (IN)

Petroleum, Industry and Mining (PIM) TCC
This committee provides a forum for the exchange of technical information, experiences, and solutions regarding air quality, waste, permitting, environmental management, sustainability, and regulatory compliance issues affecting industrial processes and equipment. Industries include oil and gas extraction, refining, and distribution, chemical and pharmaceutical production, general manufacturing, industrial furnaces and boilers, and non-metallic (cement/lime) and mineral extraction and processing.

Power Generation and Renewable Energy (PWR) TCC
This committee's Mission is focused on power companies and issues related to electricity production and delivery. The TCC addresses all environmental issues that apply directly to the siting, planning, permitting, operations, maintenance, shutdown, repowering, and sustainability issues, ranging from power generation to electricity delivery (transmission and distribution) to its use. The PWR Committee works with other A&WMA TCCs to address the policy, technology, science and engineering issues to help utilities, industrial power, municipal power, and investor-owned power companies stay environmentally sound, and run with compliant efficiency and reliability globally. Our assignment is to conduct meaningful information exchanges on key issues facing the electric power industry, energy stakeholders, and society. The PWR TCC welcomes participation of all power companies, the Department of Energy, the Electric Power Research Institute, EPA, Edison Electric Institute, international utilities, as well as engineering consultants and business consultants to the industry. We benefit from participation from nonprofit organizations, regulators, academics and industry experts as we delve into addressing challenges for the power industry. In the last decade, the

PWR TCC has covered topics related to coal, natural gas, carbon capture, geothermal, hydroelectric, nuclear, petroleum, biofuel and renewable energy conversions from solar and wind. The PWR TCC has organized specialty conferences, webinars and annual meeting program tracks focused on greenhouse gas emissions, the renewable portfolio standard and information exchanges among economists, governmental agencies, research organizations, academia and other practitioners. The PWR TCC aligns with A&WMA's mission of providing a neutral forum to consider the needs of society, business, industry and technologies for a sustainable energy future as electric power companies are transformed to meet global economic development and environmental protection in the present and the future. We pride ourselves on technical review to provide credible information in our programs, discussions, training and information transfer.

Nanotechnologies (NAN) TCC

The mission of the NAN TCC is to bring societal recognition, understanding and emphasis to address rapidly developing environmental health and safety issues associated with developing and working with materials and technologies at a nanoscale. It is also to promote nanotechnology-related topics among the members of the A&WMA and work towards consistent expansion of nanotechnology-related topics in the programming and events of the A&WMA, including the annual conferences and exhibitions of the A&WMA; and to provide leadership, a forum and an opportunity to society members, regulatory agencies, industry and the public at large to assess scientific, technical and policy issues relevant to nanoscale science and engineering. See additional information at https://www.awma.org/nano.

Federal Facilities and Indigenous Environmental Affairs Division (FI)

Federal Facilities (FED) TCC

The mission of the Federal Facilities Technical Coordinating Committee aligns with the overall mission of the A&WMA. The FED TCC provides a neutral forum for the exchange of information, experiences, and solutions regarding air quality, waste, environmental management, sustainability, and regulatory compliance issues affecting all different types of government owned and/or operated regulated facilities. The FED TCC fosters awareness of issues facing government facilities by promoting and sponsoring technical sessions at the A&WMA annual meeting, specialty conferences, and other forums.

Indigenous Environmental Affairs (IEA) TCC

Indigenous Environmental Affairs strives to bring awareness on indigenous peoples' environmental concerns to the A&WMA and its members, and to provide technical assistance and coordination between indigenous communities and A&WMA.

Sustainability, Climate Change, Resource Conservation and Waste Management Group

Sustainability and Resource Conservation Division (SR)

Sustainability (SUS) TCC
This committee provides a forum for the discussion of a range of issues associated with sustainability management, strategies, program development and implementation on international, National, State, local and corporate levels.

Resource Conservation (SRC) TCC
This committee seeks to maximize resource conservation and efficiency from a life cycle perspective, which includes resource extraction, material refining, product manufacturing, transportation, marketing, and consumer use, as well as post-consumer reuse, recycling and composting. It focuses on sustainable policies, strategies, programs, and best practices that promote and implement zero waste systems and closed-loop material/energy management. Specific examples include design for environment, eco-industrial networking, value-addition resource circulation, relevant government and business policies and programs, planning, procurement, engineering, production, economic incentives and returns, low-carbon transportation and product use, and consumer education.

Climate Change Impacts, Mitigation, and Adaptation Division (CC)

This Division provides a forum for the discussion of issues associated with climate change including: research, policy development, impacts analyses and action planning for greenhouse gas mitigation and climate adaptation strategies. This division covers international, National, State, local and corporate discussions about climate change.

Climate Change Policy, Strategy and Regulations (CCP) TCC
This committee provides a forum for the discussion of issues and strategies associated with climate change program development and implementation at the international, National, State, local and corporate level.

Climate Change Impacts and Adaptation (CCI) TCC
This Committee provides a forum for the discussion of issues associated with climate change impacts research and adaptation planning. It serves as a forum for the discussion of impact assessments and adaptations on an international, National, State, local and corporate level.

Waste Management/Processing, Waste-to-Energy, and Bioenergy Division (WM)

Waste Resource Recovery, Processing and Bioenergy (WMB) TCC

The purview of this committee encompasses two principal areas:

- The first area is processes for management of non-hazardous solid waste, including processes for recycling, energy recovery, materials recovery and beneficial use, and waste disposal. The types of wastes addressed include municipal solid waste, liquid waste, medical waste, industrial and commercial wastes, sewage sludge/biosolids, manure, agricultural residue, and process residues such as ash, char, digestate, auto fluff, recycling residuals, and wastewater residuals. Related subject matter of interest for the waste treatment and resource recovery processes includes associated environmental impacts and benefits, emission controls, and relevant environmental legislation and regulations.
- The second focus area of the committee is bioenergy-related processes for conversion of either waste- or non-waste feedstock materials (e.g., wood, purpose crops) to bioenergy, biogas, liquid biofuels (e.g., ethanol, biodiesel), or bioproducts such as biochemicals and bioplastics.

Technologies of interest for waste treatment/processing and for production of bioenergy and bioproducts include, but are not limited to, materials recovery facilities, mechanical biological treatment (MBT), mechanical heat treatment (MHT), waste-to-energy (WTE), biomass or waste co-fueling with coal, CHP boilers, landfills and bioreactors, landfill gas-to-energy, and the non-combustion "conversion technologies" such as composting, anaerobic digestion, thermal and plasma gasification, pyrolysis, and chemical and biological hydrolysis.

Waste Characterization and Site Remediation (WMR) TCC

This committee addresses the concept of integrated waste management with an emphasis on hazardous waste management, site characterization and remediation of contaminated sites. The types of wastes addressed include RCRA hazardous waste, medical wastes, radioactive wastes, mixed wastes, as well as contaminated soil or groundwater resulting from hazardous chemicals or materials released from industrial and commercial operations or accidental releases. The Committee's focus is on promoting and understanding hazardous waste management practices that consider all aspects of the interrelationship between source reduction, reuse, recycling, treatment technologies, new legislation, and regulations. This committee also facilitates the exchange of information on current and emerging regulations, issues, trends, themes, and resources for site characterization, investigation and cleanup of operating and abandoned contaminated sites under different programs, including voluntary and risk-based approaches. The Committee is also interested in highlighting case studies documenting the operation, maintenance, monitoring and performance of remedial actions.

Inter-Committee Task Forces

Communications (COM)

The Communications ITF's mission is to encourage communication and promote technical content developed through the A&WMA Technical Council. The purpose of the ITF's effort is to increase membership in the organization and encourage both member and non-member participation in A&WMA activities, as well as to provide an awareness of our activities to the interested general public. The ITF will communicate materials already approved through Technical Council review at an abstract or sales level for awareness purposes only and will not communicate written paper submittals or other copyrighted content. The ITF will develop the tools and processes for the online communication of those materials through web blogs and pages, as well as through social media tools such as LinkedIn, Facebook and Twitter. The ITF will pilot the effort with content and leadership effort from Nanotechnology, Sustainability and Resource Conservation TCCs. Once the tools and processes are proven, the ITF will recommend a permanent future for the program (i.e., internal management by staff, formation of a new TCC, continued management by Technical Council members.)

Non-ACE Technical Programs (PRG)

This committee's focus is on the development of A&WMA programming not related to the Annual Conference and Exhibition (ACE). Non-ACE technical programs include webinars, workshops, specialty conferences, joint webinars and meetings with other Associations, and other organization-sponsored information delivery. Efforts related to webinars and meetings includes the solicitation of ideas, proposals, and champions from within Technical Council to assist in organizing the format, content, and delivery of technical and/or professional development information in conjunction with A&WMA staff, other Councils, and committees. In addition, programs such as the development of manuals and publications falls within this committee's scope if requested.