**Areas of Expertise**

Executive Committee (EC)

* Atmospheric Sciences (atmospheric chemistry, atmospheric physics)
* Behavioral Sciences (decision sciences, communication sciences)
* Engineering (industrial, mechanical)
* **Research Program Evaluation**
* **Science Policy/Public Policy**
* **Social Science (ecological/environmental/natural resource economics, behavioral economics, environmental sociology, environmental anthropology, geography)**
* Systems Science/Systems Biology/Systems Ecology
* Toxicology (**neurotoxicology, immunotoxicology, cardio-pulmonary toxicology, endotoxicology)**

**Air, Climate, and Energy (ACE) Subcommittee**

* **Atmospheric Sciences (aerosol physical science, atmospheric physics, atmospheric measurement, air quality modeling, climate modeling, source-receptor modeling, water quality modeling)**
* Behavioral Science (psychology/social neuroscience/conservation psychology/ecopsychology/environmental psychology/sustainable behavior)
* **Biology (biogeochemistry, cell chemistry, molecular biology)**
* **Chemistry (aerosol, analytical, atmospheric, combustion, physical, water)**
* **Climate Change (adaptation, modeling, variability, greenhouse gas technology assessment)**
* **Decision Sciences/Analysis/Value of Information**
* **Ecology (aquatic ecology – freshwater/wetland, plant/forest ecology, hydrology/hydraulics, soil biogeochemistry, system ecology/landscape ecology)**
* Economics (modeling, analysis)
* **Engineering (chemical, combustion, industrial, mechanical, environmental, greenhouse gas and air pollution technology assessment, technology policy)**
* **Epidemiology**
  + **Human Health Exposure Assessment (exposure measurement, exposure modeling)**
  + **Human Health Risk Assessment**
* **Information Science (information visualization, uncertainty analysis)**
* **Public Health (environmental health, epidemiology, exposure assessment)**
  + **Risk Assessment (ecological risk assessment, human health risk assessment, mixtures risk assessment)**
  + **Science Policy/Public Policy**
* **Social Science (ecological/environmental/natural resource economics, behavioral economics, environmental sociology, environmental anthropology geography)**
* **Sustainability (life-cycle analysis, technology policy, energy)**
* **Toxicology (neurotoxicology, immunotoxicology, cardio-pulmonary toxicology)**

Safe and Sustainable Water Resources (SSWR) Subcommittee

* Aquatic/Systems Ecology (freshwater, wetland, estuary, near-coastal)
* Behavioral Science (risk perception, risk communication)
* Chemistry (environmental chemistry, water chemistry, biogeochemistry)
* Climate Change (variability)
* Cyanobacteria/Harmful Algal Blooms
* Decision Science (decision analysis, value of information, decision support system)
* Economics (ecological, environmental, natural resources, agricultural, behavioral, environmental sociology, environmental anthropology geography)
* Engineering (drinking water treatment, wastewater treatment, stormwater treatment and management, water reuse, water infrastructure)
* Microbiology
* Nutrients (nutrient management/thresholds, best management practices, human/ecological health)
* Risk Assessment (ecological, human health, cumulative)
* Toxicology (ecotoxicology)
* Water, Energy, and Food Nexus
* Watershed Management (surface water, groundwater)

Sustainable and Healthy Communities (SHC) Subcommittee

* + - Aquatic Science/Systems
    - Behavioral Science (psychology, social neuroscience, conservation psychology, ecopsychology, environmental psychology, sustainable behavior, risk perception/risk communication, crisis communication, **community decision making**)
    - **Chemistry (environmental chemistry)**
    - Decision Science/Analysis/Value of Information
    - Ecology (ecosystem services)
    - Economics
    - Engineering (environmental, civil, chemical, bioenvironmental, combustion, decontamination and cleanup/management)
    - Information Technology (web-based tool development)
    - Landscape Ecology
    - Modeling (top down rather than bottom up process modeling)
    - **Public Health (children’s health, community health, community decision making, environmental health, epidemiology)**
    - **Risk Assessment (cumulative risk assessment, ecological risk assessment, human health risk assessment)**
    - **Science Policy/Public Policy (environmental justice)**
    - **Social Science (community disaster recovery and resiliency and environmental issues, ecological/environmental economics, natural resource economics, human health economics, behavioral economics, environmental sociology, environmental anthropology geography)**
    - **Sustainability (community/urban level planning and sustainability, industrial ecology, life-cycle analysis, energy)**
    - Terrestrial Science/Systems
    - Urban Ecology
    - Visualization

Chemical Safety for Sustainability (CSS) and Human Health Risk Assessment (HHRA) Subcommittee

CSS Areas of Expertise

* + - Bioinformatics
    - Chemical Fate and Transport
    - Chemical Risk Assessment
    - Chemical Risk Management
    - Computational Chemistry
    - Computational Toxicology/Biology
    - Decision Science/Analysis/Value of Information
    - Emerging Materials (nanotechnology, nanoexposure and hazard characterization)
    - Endocrinology
    - Exposure Science (human and ecological)
    - Green Chemistry
    - High-Throughput Bioassays
    - Life Cycle Analysis
    - Molecular Biology/Genomics
    - Pharmacokinetics
* Public Health (children’s health, environmental health, molecular epidemiology)
* Risk Assessment (cumulative risk assessment, ecological risk assessment, human health risk assessment, mixtures risk assessment)
  + - Systems Biology
* Toxicology (computational toxicology – computational biology/genomics/proteomics/metabonomics/ computational chemistry/high throughput bioassays/informatics/bioinformatics, ecotoxicology, developmental/reproductive toxicology)

HHRA Areas of expertise

* Atmospheric Science
* Behavioral Science (risk perception/risk communication)
* Biology (endocrinology/endocrine disruptors, molecular biology, pharmacokinetics, systems biology)
* Computational Toxicology
* Decision Science (decision analysis/value of information/decision support system)
* Ecology
* Environmental Health Science (includes developing and evaluating risk management decisions, and performing decision analyses and uncertainty analyses)
* Epidemiology
  + - Exposure Science (human and ecological)
* Human Health Risk Assessment (cancer and non-cancer risk assessment, chemical mixtures risk assessment, cumulative risk assessment, exposure assessment, chemical mode of action and toxicity pathway analysis, dose response modeling, physiologically-based pharmacokinetic (PBPK) modeling)
* Information Science (communication – research results, information visualization, uncertainty analysis)
* Molecular Toxicology
* Public Health (children’s health, community health, epidemiology)
* Pulmonary and Cardiovascular Toxicology
* Social Science (ecological economics/environmental economics/natural resource economics**, environmental sociology, social epidemiology, environmental anthropology, geography**)
* Sustainability (community level sustainability)
* Toxicology (computational toxicology, predictive toxicology, developmental/reproductive toxicology, immunotoxicology, molecular toxicology, neurotoxicology, pulmonary/cardiovascular toxicology, carcinogenesis)

Homeland Security (HS) Subcommittee

* Biology (environmental microbiology)
* Chemistry (analytical chemistry, physical chemistry, water chemistry)
* **Decision Science (decision analysis, value of information, decision support system)**
* **Emergency Management (natural/industrial disasters and terrorist incidents)**
* Engineering (decontamination/waste management, drinking water treatment/distribution/wastewater treatment, environmental modelling, environmental engineering with a focus on microbiology, chemical engineering)
* Risk Assessment (human health exposure assessment, sampling approaches)
* Social Science (**community disaster recovery and resiliency and environmental issues,** environmental economics, environmental sociology, environmental anthropology, geography)