

A “WHO’S WHO” IN THE CHESAPEAKE BAY PROGRAM

April 2001



Chesapeake Bay Program
A Watershed Partnership

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Cover photo: Blackwater National Wildlife Refuge
Fall 2000
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The Chesapeake Bay Program: An Overview

America's Leading Bay & River Restoration Program

The Chesapeake Bay Program is the unique regional partnership that's been directing and conducting the restoration of the Chesapeake Bay since the signing of the historic *Chesapeake Bay Agreement of 1983*. The Bay Program partners include the states of Maryland, Pennsylvania and Virginia; the District of Columbia; the Chesapeake Bay Commission, a tri-state legislative body; the U.S. Environmental Protection Agency, representing the federal government; and participating advisory groups.

As the largest estuary in the United States and one of the most productive in the world, the Chesapeake Bay was this nation's first estuary targeted for restoration and protection. In the late 1970s, scientific and estuarine research on the Bay pinpointed three areas requiring immediate attention: nutrient over-enrichment, dwindling underwater Bay grasses and toxic pollution. Once the initial research was completed, the Bay Program evolved as the means to restore this exceptionally valuable resource.

Since its inception in 1983, the Bay Program's highest priority has been the restoration of the Bay's living resources - its finfish, shellfish, Bay grasses, and other aquatic life and wildlife. Improvements include fisheries and habitat restoration, increases of Bay grasses, nutrient and toxic reductions, and significant advances in estuarine science.

Examples of specific actions initiated by the Bay Program include a watershed-wide phosphate detergent ban, the introduction of agricultural best management practices, biological nutrient removal at wastewater plants, and a public education campaign emphasizing the role each of the watershed's over 15 million residents play in the restoration.

Considered a national and international model for estuarine research and restoration programs, the Bay Program is a partnership led by the Chesapeake Executive Council. The members of the Executive Council are the governors of Maryland, Virginia and Pennsylvania; the mayor of the District of Columbia; the administrator of the U.S. Environmental Protection Agency and the chair of the Chesapeake Bay Commission. The Executive Council meets annually to establish the policy direction for the Bay Program.

In the *1987 Chesapeake Bay Agreement*, the Executive Council set a goal to reduce the nutrients nitrogen and phosphorous entering the Bay by 40% by 2000. In 1992, the Executive Council agreed to continue the 40% reduction goal beyond 2000, as well as to attack nutrients at their source - upstream in the Bay's tributaries. As a result, Pennsylvania, Maryland, Virginia, and the District of Columbia began developing tributary strategies to achieve nutrient reduction targets. In 1993, the Executive Council set an initial goal for recovery of Bay grasses at 114,000 acres by 2005 and set goals for reopening spawning habitat for migratory fish by removing blockages, such as small dams, on the Bay rivers.

In July 1994, high-level federal officials from 25 agencies and departments signed the *Agreement of Federal Agencies on Ecosystem Management in the Chesapeake Bay* (updated in 1998.) The historic agreement outlined specific goals and commitments by federal agencies on federal lands throughout the watershed, as well as new cooperative efforts by federal agencies elsewhere.

In October 1994, the Executive Council made the implementation of the tributary strategies the top priority for the Bay and its rivers. The Executive Council also adopted the *Chesapeake Bay Basinwide Toxics Reduction and Prevention Strategy* (updated in 2000.) In addition, the Executive Council issued new initiatives for riparian forest buffers, habitat restoration, and reciprocal agricultural certification programs.

The *1995 Local Government Partnership Initiative* engaged the watershed's 1,650 local governments in the Bay restoration effort. The Executive Council followed this in 1996 by adopting the *Local Government Participation Action Plan* and the *Priorities for Action for Land, Growth and Stewardship in the Chesapeake Bay Region*, which address land use management, growth and development, stream corridor protection, and infrastructure improvements. In 1996, the Executive Council also signed the *Riparian Forest Buffers Initiative*, which strengthened the Bay Program's commitment to improve water quality and enhance habitat. A new goal called for restoring 2,010 miles of riparian buffers on stream and shoreline in the watershed by 2010.

In 1997, the Executive Council renewed its commitment to the 40% nutrient reduction goal, acknowledging that it had to accelerate efforts. A Bay Program study had concluded that the goal for phosphorus reduction would be met by 2000, but the goal for nitrogen would not be met unless efforts were intensified. Other directives signed in 1997 focused on wetlands protection and restoration and the development of a Community Watershed Initiative.

In November 1998, representatives of 22 federal agencies and departments signed an updated agreement, the *Federal Agencies' Chesapeake Ecosystem Unified Plan*, which contains 50 specific goals and commitments.

At the December 1998 Executive Council Meeting, education and technology were highlighted as the top tools for the future of the Bay's restoration. The Executive Council also directed the Chesapeake Bay Program to begin the process of creating a new Bay Agreement, to be completed in 2000. Also, Council members signed a directive to coordinate a regional effort to manage the use and transportation of animal waste.

On June 28, 2000, the Chesapeake Executive Council signed the new *Chesapeake 2000* agreement, which will guide the next decade of restoration and protection efforts throughout the Bay watershed. The agreement commits to protecting and restoring living resources, vital habitats and water quality of the Bay and its watershed. The agreement has cutting edge commitments in the area of water quality – correcting nutrient and sediment problems in the Bay and its tidal tributaries and taking them off of the impaired waters list by 2010. *Chesapeake 2000* also addresses the sprawl and livability issues that have gotten national attention. The agreement commits to reduce the rate of harmful sprawl development of forest and agricultural land in the Bay watershed by 30% by 2012. The agreement also commits to permanently preserving 20% of the Bay watershed by 2010.

Although nutrient loads to the Bay have declined significantly since 1987, reductions fell short of the 2000 goal. In the areas most impacted by excessive nutrient loads, the Potomac River and points north, phosphorus reduction goals were achieved. Nitrogen reduction goals for those areas are expected to be met once tributary strategies are fully implemented in 2003. A significant portion of nutrient reductions can be attributed to improved technology at wastewater treatment plants, while additional gains have been achieved through the banning of phosphate detergents and the implementation of new technologies, such as biological nutrient removal. A variety of best management practices, such as forest and other buffer strips and nutrient management plans on farms, also have helped reduce the amount of nitrogen and phosphorus entering the Bay.

Other recent restoration highlights include:

- **Underwater Bay grasses:** The resurgence of the Chesapeake Bay's underwater grasses is closely linked to baywide water quality conditions. Bay grasses – an important nursery for aquatic creatures such as crabs and rockfish – increased to an estimated 68,125 total acres baywide in 1999. The increase reflects an especially strong recovery of grasses in the Tangier Sound and Honga River areas. *Chesapeake 2000* recommits the Bay Program to meet the 114,000 acre Bay grass goal, and to revise that goal by addressing Bay grass recovery in relation to water clarity, water quality and bottom disturbance.
- **Oysters restoration:** In March 2000, a Bay Program workshop gathered key members of the Chesapeake Bay scientific, management and waterman communities to discuss oyster restoration activities in the Chesapeake Bay. As a result of the workshop, Bay leaders came to consensus on several critical issues related to successful oyster restoration, including the importance of oyster sanctuaries, the benefits of protecting historically productive areas and the importance of reef design. In order to help reach the *Chesapeake 2000* goal of a ten-fold increase in native oysters by 2010, Congress has appropriated over \$4 million to oyster restoration activities in FY2001 (for the US Army Corps of Engineers, NOAA & EPA). Managers and scientists believe that the creation of oyster sanctuaries is key to their recovery. These sanctuaries, placed in areas of varying salinity where recruitment of young oysters is high, would be off limits to commercial and private oyster harvesters. Over 28,000 acres of sanctuary were designated between 1996 and 1999. Within those designated areas, over 260 acres of oyster habitat have already been constructed.
- **Chemical releases:** The *Toxics 2000 Strategy*, a new action plan that sets extensive goals for preventing the release of chemical contaminants into the Chesapeake Bay and its tributaries, was signed by the Chesapeake Executive Council in December 2000. The strategy commits to meeting voluntary goals that surpass current regulatory requirements and strives to achieve "zero release" of chemical contaminants into the Bay by phasing out chemical mixing zones, reducing point source loads, and adopting new measures to ensure that finfish and shellfish are safe to eat. And, for the first time, the Bay Program is setting specific numerical goals to reduce toxics from nonpoint sources such as stormwater and agricultural runoff. The *Toxics 2000 Strategy* fulfills the first major commitment of *Chesapeake 2000*.

- **Water trails:** In *Chesapeake 2000*, Bay Program partners agreed "to increase the number of designated water trails in the Chesapeake Bay watershed by 500 miles" by 2005. Currently, 293 miles of water trails are located in the Bay watershed and over 400 additional miles are under development. The water trail network is being developed as part of the National Park Service's Chesapeake Bay Gateways Network – a partnership of ecological, cultural and historical sites and water trails throughout the Bay watershed.
- **Bald eagles:** Bald eagle counts for 2000 indicated that the recovery of the bald eagle population in the Chesapeake Bay watershed – an area with one of the highest concentrations of eagles in the United States – remained on track. There were 533 active nests (with young eagles) in 2000 in Maryland, Pennsylvania, Virginia and the District of Columbia – an increase from 486 in 1999. And the District of Columbia was home to a successful nesting pair of bald eagles for the first time since the 1940s. In 2000, there were 812 eaglets in active nests – up from 706 in active nests the year before.
- **Blue crabs:** In December 2000, the Bi-State Blue Crab Advisory Committee finished its two-year review of the management of the blue crab fishery. As part of the new management strategy, the committee agreed to set new limits on annual blue crab harvests in Maryland and Virginia. The committee also identified 10% of the breeding stock as the minimum threshold by which the blue crab population could survive. The new limits require that at least 20% of the blue crab breeding stock be left each year to help restore the blue crab population. The most recent blue crab preliminary commercial harvest data shows that 49 million pounds of crab were landed in Maryland and Virginia in 2000. The setting of new harvest targets in 2001 fulfills one of the first major commitments in *Chesapeake 2000*.
- **Waterfowl:** Data released in October 2000 by the Chesapeake Bay Program show an increase in several species of waterfowl living in the Chesapeake Bay watershed, with fourteen of twenty-one monitored species meeting year 2000 population goals. The increasing numbers of waterfowl have been attributed to the restoration of habitat in the Chesapeake Bay, the Atlantic Flyway and other areas. Among those species meeting the 2000 goals are migratory mallards, snow geese and bufflehead ducks. Seven species of waterfowl did not reach the 2000 population goals. Increased competition with non-native and invasive species for limited resources, poor weather in the arctic breeding grounds and degradation of habitat have hampered the recovery of these waterfowl. Continued emphasis on the protection and restoration of wetlands, Bay grasses and benthic habitats will be necessary to protect all waterfowl.
- **Clean Water Act Reauthorization:** On November 7, 2000 the President signed the Estuaries and Clean Waters Act of 2000, which included Title II- Chesapeake Bay Restoration. This Act amends Section 117 of the Federal Water Pollution Control Act (known as the Clean Water Act) and established new authorities for the Chesapeake Bay Program. The reauthorized section sought to expand and strengthen cooperative efforts to restore and protect the Chesapeake Bay and achieve the goals established in the *Chesapeake 2000* and prior agreements. The Act also increases the annual authorization level for the Bay Program.

CHESAPEAKE EXECUTIVE COUNCIL

Responsibilities

The Chesapeake Executive Council was established by the *Chesapeake Bay Agreement of 1983*. Under the *1987 Chesapeake Bay Agreement*, membership changed from cabinet secretaries to the governors of Maryland, Pennsylvania, and Virginia, the administrator of the U.S. Environmental Protection Agency, the mayor of the District of Columbia and the chair of the Chesapeake Bay Commission, a legislative body serving Maryland, Pennsylvania, and Virginia. The Executive Council establishes the policy direction for the restoration and protection of the Chesapeake Bay and its living resources. In June 2000, the Executive Council signed and released the new *Chesapeake 2000* agreement, which lays out goals and commitments for the next decade.

The Executive Council exerts leadership to marshal public support and is accountable to the public for progress made under the Agreements. It meets as needed, but at least annually. Its Principals' Staff Committee meets as needed to facilitate communication among the Implementation Committee, the advisory committees, and the Chesapeake Executive Council.

Chesapeake Executive Council Membership

Anthony A. Williams, Chair

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Sen. Brian E. Frosh

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Governor
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State Capital
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Christine Todd Whitman

Administrator
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PRINCIPALS' STAFF COMMITTEE

Responsibilities

The Principals' Staff Committee (PSC) acts as the policy advisors to the Executive Council, accepting items for their consideration and approval, and setting agendas for Council meetings. Individual members of the PSC arrange and provide briefings to their principals, the *Agreement* signatories. The PSC also provides policy and program direction to the Implementation Committee.

Principals' Staff Committee Membership

Theodore J. Gordon - **Chair**, Chief Operating Officer, DC Department of Health
Jim Wareck - Special Assistant to the Mayor for Environmental Affairs

Hagner R. Mister - Secretary, MD Department of Agriculture
Jane Nishida - Secretary, MD Department of the Environment
Sarah J. Taylor-Rogers - Secretary, MD Department of Natural Resources
Harriet Tregoning - Secretary, Department of Planning

David Hess - Secretary, PA Dept. of Environmental Protection
John C. Oliver - Secretary, PA Dept. of Conservation and Natural Resources
Richard G. Sprenkle - Deputy Secretary, PA Dept. of Conservation and Natural Resources
Lawrence C. Tropea, Jr. - Deputy Sec. for Water Management, PA Dept. of Environmental Protection

John Paul Woodley, Jr. - Secretary of Natural Resources, VA, Office of Governor
David Brickley - Director, VA Department of Conservation and Recreation
Dennis Treacy - Director, VA Department of Environmental Quality

Tom Voltaggio - Acting Regional Administrator, US EPA Region III
Diana Esher - Acting Director, US EPA Chesapeake Bay Program Office

Ann Swanson - Executive Director, Chesapeake Bay Commission

Principals' Staff Committee (PSC) Liaison List

Russell W. Baxter - VA Director, Chesapeake Bay Commission
Patricia A. Buckley - PA Department of Environmental Protection
James R. Collier - DC Department of Health
Jack E. Frye - VA Department of Conservation and Recreation
Verna E. Harrison - MD Department of Natural Resources
Robert Hoyt - MD Department of the Environment
Hamid Karimi - DC Department of Health
Peter J. Marx - US Environmental Protection Agency
Larry Minock - VA Department of Environmental Quality
Alan Pollock - VA Department of Environmental Quality
Royden Powell - MD Department of Agriculture
Robert Summers - MD Department of the Environment

IMPLEMENTATION COMMITTEE

Responsibilities

The Implementation Committee was established by the *Chesapeake Bay Agreement of 1983* and is composed of representatives from Maryland, Virginia and Pennsylvania, the District of Columbia, the Chesapeake Bay Commission, the U.S. Environmental Protection Agency, and other federal agencies and Program participants. It is responsible for implementing the policy decisions and technical studies of the Chesapeake Executive Council and coordinating restoration and protection activities under the *Chesapeake 2000* agreement and subsequent amendments and directives.

The Committee receives policy guidance from both the Executive Council and the Principals' Staff Committee. It establishes and coordinates all of the committees and subcommittees shown below. The Director of the EPA Chesapeake Bay Program Office chairs the Implementation Committee and the Office provides staff support to the Committee and its subcommittees. The Implementation Committee is responsible for the annual workplan and budget. It receives and acknowledges the advice of the Scientific and Technical Advisory Committee, the Local Government Advisory Committee and the Citizens Advisory Committee whose Chairs are also members.

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Organizational List

Implementation Committee

- Budget Steering Committee
- Federal Agencies Committee
- Chesapeake Bay Gateways Network Working Group
- Water Quality Steering Committee

Subcommittees

- Air
- Communications and Education
- Information Management
- Land, Growth & Stewardship
- Living Resources
- Modeling
- Monitoring and Assessment
- Nutrient
- Toxics

Implementation Committee Membership

Diana Esher - **Chair**, US EPA (Acting Director, Chesapeake Bay Program Office)
David Brickley - VA Department of Conservation and Recreation
Karl Brown - PA State Conservation Commission
Patricia A. Buckley - PA Department of Environmental Protection
David Butler - US Coast Guard
Bob Campbell - National Park Service
Michael Clower - VA Chesapeake Bay Local Assistance Department
James R. Collier - DC Department of Health (Chair, Modeling Subcommittee)
Frank Dawson - MD Department of Natural Resources (Chair, Living Resources Subcommittee)
David Doss - USDA, Natural Resources Conservation Service
Charles J. Fiala, Jr. - US Army Corps of Engineers, Baltimore District
Judith Freeman - National Oceanic and Atmospheric Administration
Jack E. Frye - VA Department of Conservation and Recreation
Robert W. Grabb - VA Marine Resources Commission
Verna E. Harrison - MD Department of Natural Resources
Carlton Haywood - Interstate Commission on the Potomac River Basin (Chair, Monitoring Subcommittee)
Joe Hoffman - Interstate Commission on the Potomac River Basin
Nancy Imler - PA Dept. of Environmental Protection (Chair, Information Management Subcommittee)
David Johnson - VA Department of Environmental Quality (Chair, Air Subcommittee)
Hamid Karimi - DC Department of Health
Walden R. Kerns - VA Tech (Chair, Scientific and Technical Advisory Committee)
Kenneth Laden - DC Department of Public Works
Thomas Long - Farm Service Agency
Christine Martin - PA Governor's Office
Larry Minock - VA Department of Environmental Quality
Patricia O'Bannon - Supervisor of Tuckahoe Magisterial District (Chair, Local Gov. Advisory Committee)
Steve Olson - Commander, Navy Region Mid-Atlantic
Robert Pennington - US Fish & Wildlife Service
Scott Phillips - US Geological Survey
Alan Pollock - VA Department of Environmental Quality
Royden Powell - MD Department of Agriculture
Thomas W. Simpson - University of MD (Chair, Nutrient Subcommittee)
Robert Summers - MD Department of the Environment (Chair, Toxics Subcommittee)
Ann Swanson - Chesapeake Bay Commission
Paul Swartz - Susquehanna River Basin Commission
Steve Taglang - PA Dept. of Env. Protection (Chair, Land, Growth & Stewardship Subcommittee)
Albert H. Todd - US Forest Service
Gary Waugh - VA Dept. of Cons. and Recreation (Chair, Communications and Education Subcommittee)
William J. Whitney, Jr. - The Whitney Group (Chair, Citizens Advisory Committee)
John Wolflin, US Fish & Wildlife Service
Robert Yowell - PA Department of Environmental Protection

Implementation Committee

Budget Steering Committee (BSC) - The BSC is both a subset and complement to the Implementation Committee. Its primary role is to assist the Implementation Committee in work planning and management of operational budgets for the Bay Program. This includes preparation of annual budget guidance and priorities, review of budget proposals from the subcommittees, advisory committees and others, and making recommendations to the Implementation Committee for annual spending plans and budget policy considerations. It steers and aligns funding toward priority work plans and commitments of the Bay Program as determined by the Executive Council, Principals' Staff Committee and the Implementation Committee, to whom it refers policy issues for decision-making.

The BSC reviews specific proposals from the subcommittees and others, analyzes their merit and suitability, while attending to "the big picture" of what benefits the Bay and what meets the strategic priorities of the Program. The budget process is designed as an open and consensus-based activity with the final result being a set of recommendations to EPA and other sponsoring agencies for funding consideration.

The BSC assists the Program as requested in strategic planning and annual work planning functions to ensure a coordinated, cross-program approach.

Diana Esher - **Chair**, US Environmental Protection Agency
Richard Batiuk - US Environmental Protection Agency
Russell W. Baxter - VA Director, Chesapeake Bay Commission
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Patricia A. Buckley - PA Department of Environmental Protection
Bob Campbell - National Park Service
Michael Clower - VA Chesapeake Bay Local Assistance Department
James R. Collier - DC Department of Health (Chair, Modeling Subcommittee)
Moirá Croghan - VA Department of Conservation and Recreation
Frank Dawson - MD Department of Natural Resources (Chair, Living Resources Subcommittee)
Verna E. Harrison - MD Department of Natural Resources
Carlton Haywood - Interstate Commission on the Potomac River Basin (Chair, Monitoring Subcommittee)
Nancy Imler - PA Department of Environmental Protection (Chair, Information Mgmt. Subcommittee)
David Johnson - VA Department of Environmental Quality (Chair, Air Subcommittee)
Hamid Karimi - DC Department of Health
Cedric Karper - PA Department of Environmental Protection
Walden R. Kerns - VA Tech (Chair, Scientific and Technical Advisory Committee)
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Larry Minock - VA Department of Environmental Quality
Patricia O'Bannon - Supervisor of Tuckahoe Magisterial District (Chair, Local Gov. Advisory Committee)
Thomas W. Simpson - MD Department of Agriculture (Chair, Nutrient Subcommittee)
Robert Summers - MD Department of the Environment (Chair, Toxics Subcommittee)
Ann Swanson - Chesapeake Bay Commission
Steve Taglang - PA Dept. of Env. Protection (Chair, Land, Growth & Stewardship Subcommittee)
Gary Waugh - VA Dept. of Cons. and Recreation (Chair, Communications and Education Subcommittee)
William J. Whitney, Jr. - The Whitney Group (Chair, Citizens Advisory Committee)

Implementation Committee

AIR SUBCOMMITTEE

Responsibilities

To foster a broad-based understanding of the nature and extent of atmospheric deposition, loadings, and effects of nutrients and chemical contaminants to the Chesapeake Bay, its tributaries and watershed, and to reinforce federal and state efforts to reduce and prevent adverse impacts of these loadings in a credible, holistic, coordinated, and comprehensive manner.

The Air Subcommittee is guided by three overarching objectives. The first addresses researching, monitoring, and modeling atmospheric deposition, loadings, and effects. The second objective addresses identifying atmospheric sources and reducing pollutant emissions and subsequent loadings from these sources. Both of these objectives focus on nitrogen compounds and chemical contaminants. The third objective addresses communicating the message that air pollution has the potential to significantly impact water quality.

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Air Subcommittee Membership

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Joel E. Baker - University of MD
John Benedict - WV Office of Air Quality
Terry Black - PA Department of Environmental Protection
Al Cimorelli - US Environmental Protection Agency
James R. Collier - DC Department of Health
Robert Day - DC Department of Health
Robin Dennis - US Environmental Protection Agency
Bruce Hicks - National Oceanic and Atmospheric Administration
Maggie Kerchner - National Oceanic and Atmospheric Administration
Virginia McConnell - University of MD- Baltimore County
Kenn Pattison - PA Department of Environmental Protection
Jonathan Priday - MD Department of the Environment
Mark Richards - VA Department of Environmental Quality
Dan Salkovitz - VA Department of Environmental Quality
John Schneider - DE Department of Natural Resources and Environment
John Sherwell - MD Department of Natural Resources
Julie Thomas - US Environmental Protection Agency

Implementation Committee

COMMUNICATIONS AND EDUCATION SUBCOMMITTEE

Responsibilities

The Communications and Education Subcommittee (CES) is responsible for: (1) building public understanding and support of the Chesapeake Bay system and the restoration efforts undertaken pursuant to the *Chesapeake 2000* agreement and (2) coordinating the implementation of the *Agreement's* public information, education and participation commitments, including public review of commitment documents.

CES seeks to build and promote a broad conservation ethic among residents of the Bay watershed through a comprehensive communications effort that includes media outreach, education and community engagement. CES provides opportunities for citizen involvement via Bay-related special events, restoration projects and K-12 educational initiatives.

CES activities are conducted within the framework of the *Chesapeake 2000* agreement "Stewardship and Community Engagement" section. CES works to increase awareness for higher public recognition of the Bay Program and its accomplishments.

Organizational List

Communications and Education Subcommittee

- Communications Workgroup
- Education Workgroup

Staff Contacts:

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Communications and Education Subcommittee Membership

Gary Waugh - **Chair**, VA Department of Conservation and Recreation
Gilda M. Allen - DC Department of Health
Cheryl Amrani - US Fish & Wildlife Service
Kathleen Banski - Pennsylvania Association of Conservation Districts
Wayne Bell - Washington College
Rebecca Bell - MD State Department of Education
Kerri Bentkowski - Chesapeake Bay Trust
Sarah Bodor - Chesapeake Bay Foundation
Becky Boger - The GLOBE Program
Thomas W. Burke - MD Department of Natural Resources
Bob Campbell - National Park Service
Valerie Chase - National Aquarium in Baltimore
Carl Cole - Management Consultant
Beth Creamer - NASA Goddard
Delores Dalton - VA Department of Education
Pat Devlin - Alliance for the Chesapeake Bay
Deborah Elliott - Booz Allen & Hamilton Inc.
Clifford A. Falkenau - Citizen
Jim Firebaugh - VA Department of Education
Anne Goode - DC Department of Health
Jack Greer - MD Sea Grant College Program
Gary Heath - MD State Department of Education
Donna Heron - US Environmental Protection Agency
Peter Hill - National Oceanic and Atmospheric Administration
Carol Hollingsworth - Natural Resources Conservation Service
Susanna Klein - Living Classrooms Foundation
Mike Land - Alliance for the Chesapeake Bay
Frances Lee Larkin - Virginia Institute of Marine Science
Peter J. Marx - US Environmental Protection Agency
Milt Nelson - University of MD
Christina Novak - PA Department of Environmental Protection
Reggie Parrish - US Environmental Protection Agency
Patricia Paul - USDA, Natural Resources Conservation Service
Joan Phillips - US Navy
Lamar Raker - US Navy
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Kathy Reshetiloff - US Fish & Wildlife Service
Eileen Setzler-Hamilton - Univ. of MD Center for Environmental Science
Dawn Shank - VA Department of Conservation and Recreation
Ann Swanson - Chesapeake Bay Commission
Nita Sylvester - US Environmental Protection Agency
Alicia Taylor - US Geological Survey
Patti Vathis - PA Department of Education
Lina Vlavianos - Severn River Commission
Heather Wells - US Army Corps of Engineers
Lauren Wenzel - MD Department of Natural Resources

Communications Workgroup - The Communications Workgroup consists of representatives from Maryland, Virginia, Pennsylvania, the District of Columbia, Federal agencies and others who work together to promote awareness of the Chesapeake Bay and its issues. The Communications Workgroup works to articulate and publicize the information generated by the Bay Program to ensure accurate and timely reporting of the Bay's health to its citizens. CES also serves in an advisory capacity to the various Bay Program subcommittees, committees and workgroups in the development and distribution of their public outreach materials.

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Karen Baker - US Army Environmental Center

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Milt Nelson - University of MD

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Patricia Paul - USDA, Natural Resources Conservation Service

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Lamar Raker - US Navy

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Lina Vlavianos - Severn River Commission

Heather Wells - US Army Corps of Engineers

Lauren Wenzel - MD Department of Natural Resources

Reider White - MD Department of the Environment

Education Workgroup - The Education Workgroup brings together representatives of interagency groups from Maryland, Pennsylvania, Virginia, the District of Columbia and others to advocate the commitments outlined in the Education and Outreach section of the *Chesapeake 2000* agreement. The Education Workgroup works to provide the teachers and students with essential Bay watershed messages, as well as to integrate the messages into the school curriculums. The Workgroup also convenes a biennial Education Summit to share information and issues, and to promote and improve scientific achievements by students.

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Rebecca Bell - MD State Department of Education
Kerri Bentkowski - Chesapeake Bay Trust
Sarah Bodor - Chesapeake Bay Foundation
Becky Boger - The GLOBE Program
Valerie Chase - National Aquarium in Baltimore
Carl Cole - Management Consultant
Beth Creamer - NASA Goddard
Jim Firebaugh - VA Department of Education
Gary Heath - MD State Department of Education
Susanna Klein - Living Classrooms Foundation
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Eileen Setzler-Hamilton - Univ. of MD Center for Environmental Science
Dawn Shank - VA Department of Conservation and Recreation
Patti Vathis - PA Department of Education
Gary Waugh - VA Department of Conservation and Recreation
Heather Wells - US Army Corps of Engineers
Lauren Wenzel - MD Department of Natural Resources

Implementation Committee

INFORMATION MANAGEMENT SUBCOMMITTEE

Responsibilities

The Information Management Subcommittee coordinates and addresses issues related to the acquisition, maintenance and dissemination of data and information important to the Chesapeake Bay Program and its partners. The Subcommittee provides cross-program integration and vision for information management activities of other CBP subcommittees.

Organizational List

Information Management Subcommittee

- Chesapeake Information Management System (CIMS) Workgroup

Staff Contact:

Bridgette Hagerty
Chesapeake Research Consortium
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Information Management Subcommittee Membership

Nancy Imler - **Chair**, PA Department of Environmental Protection
Tony Allred - MD Department of Natural Resources
Gary Anderson - VA Institute of Marine Science
Lowell Bahner - National Oceanic and Atmospheric Administration
Ricky Bahner - Interstate Commission on the Potomac River Basin
Roger Barlow - US Geological Survey
Richard Batiuk - US Environmental Protection Agency
Christine Becker - Metropolitan Washington Council of Governments
Peter Bergstrom - US Fish and Wildlife Service
Claire Buchanan - Interstate Commission on the Potomac River Basin
Brian Burch - US Environmental Protection Agency
James Davis-Martin - VA Department of Conservation and Recreation
David Donato - US Geological Survey
Robert E. Edwards - Susquehanna River Basin Commission
Rick Hoffman - VA Department of Environmental Quality
David A. Jasinski - University of Maryland
Jacqueline Johnson - Interstate Commission on the Potomac River Basin
Mike Land - Alliance for the Chesapeake Bay
Joseph Macknis - US Environmental Protection Agency
Robert Magnien - Maryland Department of Natural Resources
Vernon Morris - Howard University

Chesapeake Information Management System (CIMS) Workgroup – Responsible for the implementation of CIMS, the setting of clear priorities for specific tasks and the design and maintenance of the Bay Program web site.

Richard Batiuk - **Chair**, US Environmental Protection Agency
Tony Allred - MD Department of Natural Resources
Lowell Bahner - National Oceanic and Atmospheric Administration
Troy W. DeLung - VA Department of Environmental Quality
Mike Land - Alliance for the Chesapeake Bay
Robert Magnien - Maryland Department of Natural Resources

Implementation Committee

LAND, GROWTH AND STEWARDSHIP SUBCOMMITTEE

Responsibilities

The Subcommittee is responsible for identifying growth and land use issues of a Bay-wide nature, addressing development topics, and forging alliances with other organizations and interests to: 1) promote sound land management decisions; 2) provide growth projections and assess the impacts of existing growth on the Bay and its tributaries; and 3) encourage public and private actions to reduce the impacts of growth.

In 1996, the Chesapeake Executive Council accepted the report on *Priorities for Action for Land, Growth and Stewardship in the Chesapeake Bay Region* as a way to advance commitments on population growth and development in the *1987 Chesapeake Bay Agreement*. The goal of the *Priorities for Action* is: "To Encourage Sustainable Development Patterns That Integrate Economic Health, Resource Protection, and Community Participation."

The Subcommittee carries out the Sound Land Use commitments of the *Chesapeake 2000* agreement through public forums; technical assistance to local governments; research and analysis on Bay-wide population and land use trends; enhancement of public access to the Bay and its tributaries; promotion of public and private stewardship and conservation partnerships; and evaluation of potential growth and development impacts of government policy decisions.

Currently, the Land, Growth and Stewardship Subcommittee is in the process of restructuring its workgroups. The Subcommittee is establishing new membership for the four new workgroups (Development, Redevelopment and Revitalization; Land Conservation; Land Data; and, Transportation). The Public Access Workgroup is the only previously existing workgroup that remains. Memberships will be finalized in 2001 and listed on the Chesapeake Bay Program Home Page at www.chesapeakebay.net/search/whos_who.htm

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Organizational List

Land, Growth and Stewardship Subcommittee

- Development, Redevelopment and Revitalization Workgroup
- Land Conservation Workgroup
- Land Data Workgroup
- Public Access Workgroup
- Transportation Workgroup

Land, Growth and Stewardship Subcommittee Membership

Steve Taglang - **Chair**, PA Department of Environmental Protection
Mary Abrams - MD Office of Planning
Roger Barlow - US Geological Survey
Amanda Bassow - US Environmental Protection Agency
Russell W. Baxter - VA Director, Chesapeake Bay Commission
Patricia A. Buckley - PA Department of Environmental Protection
Mark Bundy - MD Department of Natural Resources
Bob Campbell - National Park Service
Keely Clifford - US Environmental Protection Agency
Edwina Coder - PA League of Women Voters
Richard Cooksey - US Forest Service
Scott Crafton - VA Chesapeake Bay Local Assistance Department
John Davy - VA Department of Conservation and Recreation
Lee R. Epstein - Chesapeake Bay Foundation
Larry Gaven - VA Department of Conservation and Recreation
Darryl Glover - VA Department of Conservation and Recreation
Clark Jones, Jr. - Jones Realty and Construction Corp.
Martha Little - VA Chesapeake Bay Local Assistance Department
Menchu Martinez - US Environmental Protection Agency
Larry Minock - VA Department of Environmental Quality
Philip E. Robbins - PA Governor Center
Andrea Ryon - Metropolitan Washington Council of Governments
Len Shabman - VA Tech
Ann Swanson - Chesapeake Bay Commission
Mark Thompson - International City/County Management Association
Barbara Yuhas - International City/County Management Association

Public Access Workgroup - The workgroup continues to promote public access to increase awareness of the value of the Bay and its tributaries. The workgroup believes that people will adopt an ethic of stewardship through positive recreational and educational experiences on or around the Bay. In the past it has focused on promoting public access through inventorying and mapping existing sites, and developing technical reports on how to select and develop public access areas. A new focus is on working with localities on how to incorporate public access in local comprehensive plans. In addition, the workgroup is working to promote the development of water trails in the Bay region and linkages between the various access areas. This is being done in conjunction with the new Gateways program being coordinated by National Park Service.

The Workgroup is charged to accomplish four tasks by the *Chesapeake 2000* agreement:

- By 2010, expand access points by 30%.
- By 2005, increase the number of designated water trails by 500 miles.
- Enhance interpretation materials that promote stewardship at natural, recreational, historical and cultural public access sites.
- By 2003, develop partnerships with at least 30 sites to enhance place-based interpretation of Bay-related resources and themes and stimulate volunteer involvement in resource restoration and conservation.

John Davy - **Chair**, VA Department of Conservation and Recreation

Amanda Bassow - US Environmental Protection Agency

Bob Campbell - National Park Service

Christopher Conner - Alliance for the Chesapeake Bay

Lisa Gutierrez - MD Department of Natural Resources

Derral Jones - VA Department of Conservation and Recreation

Marty Kaehny - US Fish and Wildlife Service

Peter J. Marx - US Environmental Protection Agency

Ted Pochter - DC Department of Recreation

Steve Taglang - PA Department of Env. Protection

Ron Weis - PA Fish Commission

Kerry Wicks - MD Department of Natural Resources

Implementation Committee

LIVING RESOURCES SUBCOMMITTEE

Mission:

Coordinate the implementation of the Chesapeake Bay Program's efforts to conserve, enhance and restore living resources of the Chesapeake Bay watershed and their habitats through cooperation and integration of efforts among all partners.

Objectives and Primary Responsibility of the Living Resources Subcommittee:

Objective One: Promote and support the collection, evaluation and synthesis of the best available scientific data needed to ensure continued progress in the understanding, protection and restoration of Chesapeake Bay living resources.

Objective Two: Advance the science of habitat protection and restoration through research, promotion and implementation of integrated and targeted projects/efforts.

Objective Three: Provide management recommendations regarding living resources and their habitats to the Chesapeake Bay Program partners and direct funding toward priority projects through the Implementation and Budget Steering Committees.

Objective Four: Identify and prioritize emerging issues concerning living resources and their habitats and ensure rapid response and effective solutions.

Objective Five: Provide the information and technical tools needed to implement the living resource goals of the Chesapeake Bay Program.

Implementation Strategy:

The Living Resource Subcommittee will meet quarterly to discuss key items in the work plan and meet the objectives listed above. In addition to these meetings, the Subcommittee will have two extended meetings a year to discuss budget priorities and status updates. Emerging issues and or unfinished business can be handled through conference calls or impromptu meetings. Quarterly meetings will be held on a rotational basis in each of the four jurisdictions (Maryland, Pennsylvania, Virginia, and the District of Columbia) starting January 2001.

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Workgroups: Fisheries Management
Planning and Coordination Workgroup,
Monitoring and Modeling Workgroup.

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Workgroups: Non-native Invasive Species
Workgroup, Tidal Habitat Workgroup.

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Workgroups: Chesapeake Bay Stock
Assessment Committee and Technical
Subcommittee.

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Workgroups: Living Resources
Outreach Workgroup, Non-Tidal Habitat
Workgroup.

Living Resources Subcommittee

- Chesapeake Bay Fisheries Ecosystem Plan Technical Advisory Panel
- Chesapeake Bay Stock Assessment Committee
- Chesapeake Bay Stock Assessment Technical Subcommittee
- Fisheries Management Planning and Coordination Workgroup
- Living Resources Outreach Workgroup
- Monitoring and Modeling Workgroup
- Non-Native Invasive Species Workgroup
- Non-Tidal Habitat Workgroup
- Tidal Habitat Workgroup

Living Resources Subcommittee

Frank Dawson - **Chair**, MD Department of Natural Resources
Peter Bergstrom - US Fish and Wildlife Service
Claire Buchanan - Interstate Commission on the Potomac River Basin
Marie Bundy - Academy of Natural Sci. Estuarine Research Center
Nancy Butowski - MD Department of Natural Resources
Arthur Butt - VA Department of Environmental Quality
Richard Cooksey - US Forest Service
Doug Forsell - US Fish and Wildlife Service
Judith Freeman - National Oceanic and Atmospheric Administration
Mike Fritz - US Environmental Protection Agency
William Goldsborough - Chesapeake Bay Foundation
Dave Goshorn - MD Department of Natural Resources
Richard S. Hammerschlag - US Geological Survey
David W. Heicher - Susquehanna River Basin Commission
Anne Henderson-Arzapalo - Aquatic Ecology Laboratory
Carl Hershner - VA Institute of Marine Science
Rick Hill - VA Department of Conservation and Recreation
Rick Hoopes - PA Fish and Boat Commission
Brian Hostetter - Regional Environmental Group Oceana
Edward Houde - University of MD- Center for Environmental Science
Steve Jordan - MD Department of Natural Resources
Chris Judy - MD Department of Natural Resources
Henry Koellein - MD Saltwater Sportsman's Association
Andrew Loftus - Natural Resources Consultant
Mike McCoy - MD Department of the Environment
Mark Mendelsohn - US Army Corps of Engineers
Bob Murphy - Alliance for the Chesapeake Bay
Mike Naylor - MD Department of Natural Resources
Derek Orner - National Oceanic and Atmospheric Administration
Ira Palmer- DC Department of Health
Edward Pendleton - US Geological Survey
Harriette Phelps - University of the District of Columbia
Ken Reisinger - PA Department of Environmental Protection
Eric Schwaab - MD Department of Natural Resources
Richard St. Pierre - US Fish and Wildlife Service
Jack Travelstead - VA Marine Resources Commission
Tony Watkinson - VA Marine Resources Commission
Jim Wesson - VA Marine Resources Commission
Wayne Young - MD Environmental Service

Chesapeake Bay Fisheries Ecosystem Plan (FEP) Technical Advisory Panel (Joint with NOAA). Charged to develop an FEP for the Chesapeake Bay; guide the gradual implementation of ecosystem-based management of Bay fisheries; and oversee the continual development of the FEP as knowledge of the Bay ecosystem increases and management needs change.

Edward Houde - **Co-Chair**, University of MD- Center for Environmental Science
Margaret McBride - **Co-Chair**, National Oceanic and Atmospheric Administration
Herb Austin - VA Institute of Marine Science
Vicki Blazer - US Geological Survey
Chris Bonzek - VA Institute of Marine Science
Denise Breitburg - Academy of Natural Sci. Estuarine Research Center
Mary Christman - University of MD
Ratana Chuenpagdee - VA Institute of Marine Science
Steve Jordan - MD Department of Natural Resources
Jim Kirkley - VA Institute of Marine Science
Jonathan Kramer - MD Sea Grant College Program
Rom Lipcius - Virginia Institute of Marine Science
Tom Miller - Chesapeake Biological Laboratory
Derek Orner - National Oceanic and Atmospheric Administration
Dave Secor - University of MD Center for Environmental Science
Alexi Sharov - MD Department of Natural Resources
Bob Wood - VA Institute of Marine Science

Chesapeake Bay Stock Assessment Committee (Sponsored by NOAA) Cooperatively assess fisheries resources in the Chesapeake Bay in order to improve regional information required for Bay-wide stock assessments.

Derek Orner - **Chair**, National Oceanic and Atmospheric Administration
Chris Bonzek - VA Institute of Marine Science
Nancy Butowski - MD Department of Natural Resources
A.C. Carpenter - Potomac River Fisheries Commission
Frank Dawson - MD Department of Natural Resources
Jack Dunnigan - Atlantic States Marine Fisheries Commission
Judith Freeman - National Oceanic and Atmospheric Administration
William Goldsborough - Chesapeake Bay Foundation
Rick Hoopes - PA Fish and Boat Commission
Edward Houde - University of MD- Center for Environmental Science
Philip Jones - MD Department of Natural Resources
Lisa Kline - Atlantic States Marine Fisheries Commission
Jonathan Kramer - MD Sea Grant College Program
Andrew Loftus - Natural Resources Consultant
Harry Mears - National Oceanic and Atmospheric Administration
Rob O' Reilly - VA Marine Resources Commission
Ira Palmer - DC Department of Health
Eric Schwaab - MD Department of Natural Resources
Ann Swanson - Chesapeake Bay Commission
Jack Travelstead - VA Marine Resources Commission
Douglas Vaughan - National Oceanic and Atmospheric Administration
Brian Wells - US Fish and Wildlife Service

Chesapeake Bay Stock Assessment Technical Subcommittee

Philip Jones - **Chair**, MD Department of Natural Resources
Chris Bonzek - VA Institute of Marine Science
John Hoenig - Virginia Institute of Marine Science
Tom Miller - Chesapeake Biological Laboratory
Rob O' Reilly - VA Marine Resources Commission
Derek Orner - National Oceanic and Atmospheric Administration
Anne Richards - National Marine Fisheries Service
Alexi Sharov - MD Department of Natural Resources
Douglas Vaughan - National Oceanic and Atmospheric Administration

Fisheries Management Planning and Coordination Workgroup - Ensure that fishery considerations are integrated into all appropriate Chesapeake Bay Program activities, improve fishery management coordination among Chesapeake Bay jurisdictions, develop an ecosystem approach to fishery management decision-making, and coordinate efforts towards accomplishing the Fisheries objectives of *Chesapeake 2000*.

Eric Schwaab - **Chair**, MD Department of Natural Resources
Nancy Butowski - MD Department of Natural Resources
John Galvez - US Fish and Wildlife Service
Andrew Loftus - Natural Resources Consultant
Derek Orner - National Oceanic and Atmospheric Administration
Harriette Phelps - University of the District of Columbia
Jon Siemien - DC Fisheries and Wildlife Division
Lyle Varnell - Virginia Institute of Marine Science
Brian Wells - US Fish and Wildlife Service

Living Resources Outreach Workgroup – To promote stewardship by increasing awareness and understanding of the value of, and threats to, Chesapeake Bay living resources by ensuring that living resource information is available and accessible to our audiences. We will:

1. Identify needs and opportunities for outreach on living resources issues.
2. Act as a liaison to Chesapeake Bay Program subcommittees to facilitate outreach about living resources issues.
3. Chesapeake Bay Program jurisdictions and partners in providing living resources information to our audiences.

Mike McCoy - **Outreach Liaison**, MD Department of the Environment

Monitoring and Modeling Workgroup - Help the Living Resources Subcommittee use technical information to restore, enhance, and protect the Chesapeake ecosystem.

Claire Buchanan - **Co-Chair**, Interstate Commission on the Potomac River Basin

Arthur Butt - **Co-Chair**, VA Department of Environmental Quality

Herb Austin - VA Institute of Marine Science

Lowell Bahner - National Oceanic and Atmospheric Administration

Marcia Berman - VA Institute of Marine Science

Walt Boyton - Chesapeake Biological Laboratory

Denise Breitburg - Academy of Natural Sci. Estuarine Research Center

Marie Bundy - Academy of Natural Sci. Estuarine Research Center

William Burton - Versar, Inc.

Kent Carpenter - Old Dominion University

Tom Cronin - US Geological Survey

Daniel M. Dauer - Old Dominion University

Thomas R. Fisher - University of MD- Center for Environmental Science

Doug Forsell - US Fish and Wildlife Service

Paul Genovese - MD Department of Natural Resources

Larry Haas - VA Institute of Marine Science

Edward Houde - University of MD- Center for Environmental Science

Jacqueline Johnson - Interstate Commission on the Potomac River Basin

Steve Jordan - MD Department of Natural Resources

Michael Kemp - University of MD Center for Environmental Science

Julie Labranche - MD Department of the Environment

Richard Lacouture - Academy of Natural Sci. Estuarine Research Center

Roberto Llanso - Versar, Inc.

Harold Marshall - Old Dominion University

Peter May - DC Department of Health

Margaret McGinty - Maryland Department of Natural Resources

Thomas H. Miller - University of MD Cooperative Education

Patrick Nowlan - National Park Service

Marcia Olson - National Oceanic and Atmospheric Administration

Derek Orner - National Oceanic and Atmospheric Administration

Robert J. Orth - VA Institute of Marine Science

Edward Pendleton - US Geological Survey

Nancy Rybicki - US Geological Survey

Peter Tango - MD Department of Natural Resources

Jim Uphoff - MD Department of Natural Resources

Becky Wajda - VA Department of Game and Inland Fisheries

Howard Weinberg - University of MD- Eastern Shore

Jim Wesson - VA Marine Resources Commission

Dave Wilcox - VA Institute of Marine Science

Non-native Invasive Species Workgroup - The Workgroup will coordinate, integrate, and promote non-native invasive species programs and activities of signatory jurisdictions. The Workgroup will recommend Chesapeake Bay Program policies and plans for the prevention, control and risk management of established, introduced, or documented potential non-native invasive species. The Workgroup will coordinate with regional and national efforts to control and prevent the spread of non-native invasive species.

Judith Freeman - **Chair**, National Oceanic and Atmospheric Administration

Stan Allan - Virginia Institute of Marine Science

John Booser - PA Department of Environmental Protection

John Christmas - MD Department of Natural Resources

Vicki Clark - VA Sea Grant College Program

David Dowling - VA Department of Conservation and Recreation

Leo Dunn - PA Department of Agriculture

Karen Eason - MD Department of the Environment

Mike Fritz - US Environmental Protection Agency

Jack Greer - MD Sea Grant College Program

Sharon Gross - US Fish & Wildlife Service

Sandra Keppner - Lower Great Lakes Fishery Resources Office

Fred Kern - National Oceanic and Atmospheric Administration

Ron Klauda - MD Department of Natural Resources

Michael Kohler - Montebello Filtration Plant

Eric May - University of MD- Eastern Shore

Whitman Miller - National Ballast Water Information Clearinghouse

Roy W. Miller - DE Dept. of Nat. Resources and Env. Conservation

Rick Myers - VA Department of Conservation and Recreation

Mike Naylor - MD Department of Natural Resources

Chuck O'Neill - NY Sea Grant College Program

Harriette Phelps - University of the District of Columbia

Greg Ruiz - Smithsonian Environmental Research Center

Gene Scarpulla - City of Baltimore Reservoir Nat. Resource Office

Mark Sherfy - US Fish & Wildlife Service

Jon Siemien - DC Fisheries and Wildlife Division

Jorgen Skjeveland - US Fish & Wildlife Service

Daniel Terlizzi - University of MD

Julie Thompson - US Fish & Wildlife Service

Jeff Tinsman - DE Division of Fish and Wildlife

Jack Travelstead - VA Marine Resources Commission

Tom Wilcox - VA Department of Game and Inland Fisheries

Non-Tidal Habitat Workgroup - Work with partners to protect, enhance, and restore living resources and their habitats, in non-tidal aquatic and riparian areas and related uplands in the Chesapeake Bay watershed. Coordinate these efforts to increase resource benefits and achieve integrated solutions to resource problems, particularly those related to migratory and resident fish passage, non-tidal wetlands, and stream corridors.

Peter Bergstrom - **Chair**, US Fish and Wildlife Service
Al Blott - National Marine Fisheries Service
Ed Brezina - PA Department of Environmental Protection
R. Scott Carney - PA Fish and Boat Commission
Denise Clearwater - MD Department of the Environment
Frank Dawson - MD Department of Natural Resources
Stuart Demanski - PA Department of Environmental Protection
Mike Fritz - US Environmental Protection Agency
Ellen Gilinsky - Department of Environmental Quality
William Goldsborough - Chesapeake Bay Foundation
Kirk J. Havens - VA Institute of Marine Science
Lee Hill - VA Department of Conservation and Recreation
Rick Hoopes - PA Fish and Boat Commission
Curtis Hutto - VA Department of Conservation and Recreation
Paul Kazyak - MD Department of Natural Resources
Ron Klauda - MD Department of Natural Resources
Julie Labranche - MD Department of the Environment
Elizabeth Maclin - American Rivers
Peter May - DC Department of Health
Tamara McCandless - US Fish and Wildlife Service
Gary Moore - VA Department of Conservation and Recreation
John Nichols - National Marine Fisheries Service
David Norris - VA Department of Game and Inland Fisheries
Susan Olsen - National Marine Fisheries Service
Richard Quinn - US Fish and Wildlife Service
Jon Siemien - DC Fisheries and Wildlife Division
Albert Spells - US Fish and Wildlife Service
Richard St. Pierre - US Fish and Wildlife Service
David Sutherland - US Fish and Wildlife Service
Richard Takacs - National Oceanic and Atmospheric Administration
Cathy Viverette - VA Department of Conservation and Recreation
Alan Weaver - VA Department of Game and Inland Fisheries

Tidal Habitat Workgroup - The role of the Workgroup is to facilitate and support integration of efforts by Chesapeake Bay jurisdictions to protect, restore, enhance, understand, and monitor tidal habitats and their associated biotic communities so that ecosystem function is maintained or restored.

Carl Hershner - **Chair**, VA Institute of Marine Science
Rich Ayella - MD Department of the Environment
Ernest Brown - Virginia Dept of Conservation and Recreation
Marie Bundy - Academy of Nat. Sciences Estuarine Research Center
James D. Cummins - Interstate Commission on the Potomac River Basin
William Goldsborough - Chesapeake Bay Foundation
Dave Goshorn - MD Department of Natural Resources
Richard S. Hammerschlag - US Geological Survey
Lee Hill - VA Department of Conservation and Recreation
Steve Jordan - MD Department of Natural Resources
Chris Judy - MD Department of Natural Resources
Evamaria Koch - University of MD- Center for Environmental Science
Thomas H. Miller - University of MD Cooperative Education
Ken Moore - VA Institute of Marine Science
Mike Naylor - MD Department of Natural Resources
Robert J. Orth - VA Institute of Marine Science
Matthew C. Perry - US Geological Survey
Carrie Salberg - Atlantic States Marine Fisheries Commission
Richard Takacs - National Oceanic and Atmospheric Administration
Cathy Viverette - VA Department of Conservation and Recreation
Tony Watkinson - VA Marine Resources Commission
Jim Wesson - VA Marine Resources Commission
Thomas Wittkamp - Department of Defense
Wayne Young - MD Environmental Service

Implementation Subcommittee

MODELING SUBCOMMITTEE

Responsibilities

The Modeling Subcommittee ensures that appropriate and technically defensible modeling tools are available to the Chesapeake Bay Program. These models (1) assist in understanding the important processes affecting watershed and Bay water quality, (2) assist in understanding the important processes affecting key Bay living resources, and (3) provide estimates of the expected water quality and living resource responses to proposed control actions (e.g., point and non-point source controls) under present and future conditions.

To achieve this purpose, the Subcommittee oversees all aspects of model development including project scope, data requirements, and model application to address relevant management issues. Three models have been developed and linked together to get an overall simulation of the Chesapeake watershed, airshed, and estuary. By quantifying nutrient reductions necessary to restore Chesapeake Bay resources, the integrated models provide guidance to environmental managers and citizens on where the most cost effective nutrient reductions can be made so that controls are equitable and broadly supported.

The Modeling Subcommittee assures coordination among Chesapeake Bay Program participants on modeling and related activities necessary for achievement of Bay Program goals. The Subcommittee coordinates activities most frequently with the Nutrient Subcommittee, Living Resources Subcommittee, Air Subcommittee, Monitoring Subcommittee, and the Scientific and Technical Advisory Committee. Coordination with other Chesapeake Bay Program subcommittees is accomplished by having select members of these subcommittees actively involved in modeling work. The Modeling Subcommittee is supported by workgroups, made up of recognized experts, who provide scientific and technical modeling advice to the Subcommittee.

Organizational List

Modeling Subcommittee

- Benthic Processes Review Team
- Hydrodynamic Model Review Team
- Water Column Processes Review Team
- Chesapeake Bay Model Expert Team

Modeling Subcommittee Membership

James R. Collier - **Chair**, DC Department of Health
Mark Bennett - VA Department of Conservation and Recreation
Peter Bergstrom - US Fish and Wildlife Service
Bill Brown - PA Dept of Environmental Protection
Arthur Butt - VA Department of Environmental Quality
Albert Y. Kuo - VA Institute of Marine Science
Lewis Linker - US Environmental Protection Agency
Alan M. Lumb - US Geological Survey
Robert Magnien - MD Department of Natural Resources
Ross Mandel - Interstate Commission on the Potomac River Basin
Timothy J. Murphy - Metropolitan Washington Council of Governments
Kenn Pattison - PA Department of Environmental Protection
Jeff Raffensperger - US Geological Survey
Helen Stewart - MD Department of Natural Resources

Benthic Processes Review Team – The Benthic Processes Review Team is an advisory group to the model developers and the Modeling Subcommittee. It is composed of experts from the scientific community and was formed to examine and refine the simulation of sediment-water interactions and biological processes in a benthic-sediment sub-model of the Chesapeake Bay Estuary Model Package. Sediments can be a significant source of dissolved nutrients to the overlying water and bottom-dwelling organisms, which are an important food source for crabs, finfish, and other economically significant biota. In addition, organisms in the sediment bed can exert a substantial influence on water quality through their filtering capacities. Specifically, the group 1) outlines the current state of knowledge of measurement and simulation of benthic processes, 2) identifies data and ancillary analyses and approaches for the refinement of the simulation of sediment-water interactions and bottom-dwelling biology, 3) supports model development through data development and analyses, and 4) reviews the model calibration as well as implementation of the expert team’s recommendations in the areas of benthic processes.

Daniel M. Dauer - Old Dominion University
Carl T. Friedrichs - Virginia Institute of Marine Science
Linda Schaffner - VA Institute of Marine Science

Hydrodynamic Model Review Team - The Hydrodynamic Model Review Team is an advisory group to the model developers and the Modeling Subcommittee. It is composed of experts from the scientific community and was formed to examine and refine the hydrodynamic calibration and ocean boundary conditions in the Hydrodynamic Model, which simulates the transport or movement of water and water column materials in the tidal waters. Specifically, the group 1) outlines the current state of knowledge of the hydrodynamic simulation, 2) identifies data and ancillary analyses and approaches for the refinement of transport mechanisms and ocean boundary conditions, 3) supports model development through data development and analyses, and 4) reviews the Hydrodynamic Model calibration as well as the implementation of the expert team's recommendations in the area of hydrodynamics.

William C. Boicourt - University of MD

Richard Garvine - University of Delaware, College of Marine Studies

Albert Y. Kuo - VA Institute of Marine Science

Larry Sanford - University of MD- Center for Environmental Science

Water Column Processes Review Team – The Water Column Processes Review Team is an advisory group to the model developers and the Modeling Subcommittee. It is composed of experts from the scientific community and was primarily formed to examine and refine the simulation of primary productivity and respiration in the Chesapeake Bay Estuary Model Package. Primary productivity and nutrient uptake represent the rates by which nutrients stimulate the production of organic matter by phytoplankton communities. Respiration rates determine the consumption of oxygen during the process of production and degradation of that organic matter. Specifically, the group 1) outlines the current state of knowledge of measurement and simulation of primary productivity and respiration, 2) identifies data and ancillary analyses and approaches for the refinement of simulated primary productivity and respiration, 3) supports model development through data development and analyses, and 4) reviews the model calibration as well as implementation of the expert team's recommendations in the areas of simulated primary productivity and respiration. In addition, the advisory group examines and refines the mechanisms of algal uptake of dissolved inorganic nitrogen to ensure results from the simulation are consistent with observations.

Walter Boynton - University of MD

Hugh Ducklow - VA Institute of Marine Science

Thomas R. Fisher - University of MD- Center for Environmental Science

Lawrence W. Harding, Jr. - University of MD- Center for Environmental Science

Raleigh R. Hood - University of MD- Center for Environmental Science

Michael Kemp - University of MD- Center for Environmental Science

Chesapeake Bay Model Expert Team – The Chesapeake Bay Model Expert Team is an advisory group to the model developers and the Modeling Subcommittee. The Model Expert Team provides expert scientific guidance on the development of the Chesapeake Bay Watershed Model and Estuary Model Package, with particular attention to the simulation of eutrophic features of the system such as dissolved oxygen, water clarity and chlorophyll. Modeling these water and habitat quality criteria supports the assessment of a regional Total Maximum Daily Load (TMDL) program for the Bay, which allocates nutrient and sediment load reductions necessary to remove water quality impairments and achieve living resource standards.

Kevin Farley - Manhattan College
Wu-Seng Lung - University of VA

Implementation Subcommittee

MONITORING AND ASSESSMENT SUBCOMMITTEE

Responsibilities

The Subcommittee coordinates efforts to monitor the Chesapeake Bay basin system, to manage and ensure continued accessibility of the resultant environmental data and promote multi-disciplinary interpretation and reporting of the data on a jurisdictional and Program-wide basis. The Subcommittee provides the Budget Steering Committee with funding recommendations for monitoring. In addition, the Subcommittee oversees implementation of new and innovative monitoring programs (water quality, living resources, toxics and ecosystem processes) and techniques. It evaluates existing programs to ensure that the environmental data necessary to support implementation of a comprehensive quality assurance program (as part of components of the various monitoring programs) are collected. Emphasis is placed on ensuring collection and management of comparable environmental data of known quality through continued communication and transfer of technologies between the agencies and institutions involved in the Chesapeake Bay Monitoring Program.

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Organizational List

Monitoring and Assessment Subcommittee

- Analytical Methods and Quality Assurance Workgroup
- Citizens Monitoring Workgroup
- Data Management and Acquisition Workgroup
- Nontidal Tributaries Workgroup
- Tidal Water Quality Workgroup

Monitoring and Assessment Subcommittee Membership

Carlton Haywood - **Chair**, Interstate Commission on the Potomac River Basin
Richard Artz - National Oceanic and Atmospheric Administration
Claire Buchanan - Interstate Commission on the Potomac River Basin
Emery Cleaves - MD Geological Survey
Daniel M. Dauer - Old Dominion University
John Donat - Old Dominion University
Robert E. Edwards - Susquehanna River Basin Commission
Ram Gupta - VA Chesapeake Bay Local Assistance Department
Larry Haas - VA Institute of Marine Science
George Harman - MD Dept. of the Environment
Rick Hoffman - VA Department of Environmental Quality
Richard Lacouture - Academy of Nat. Sciences Estuarine Research Center
Mary Ellen Ley - US Geological Survey
Roberto Llanso - Versar, Inc.
Robert Magnien - Maryland Department of Natural Resources
Bruce Michael - MD Department of Natural Resources
Stacey Moulds - Alliance for the Chesapeake Bay
Scott Phillips - US Geological Survey
Steve Preston - US Geological Survey
Richard Shertzer - PA Department of Environmental Protection
Nicoline Shulterbrandt - DC Department of Health

Analytical Methods and Quality Assurance Workgroup - The Workgroup members are technical advisors to the Subcommittee concerning field and analytical methodology and quality assurance issues. The Workgroup provides a forum for exchange of technical information focused on moving toward standardization of methods/use of comparable methods throughout the Chesapeake Bay Monitoring Program. Members of the Workgroup participate in the Coordinated Split Sample Program and use this information in evaluating the quality of the monitoring data and for identifying areas that require further study.

Bruce Michael - **Chair**, MD Department of Natural Resources
Jay Armstrong - VA Division of Consolidated Laboratory Services
Ricky Bahner - Interstate Commission on the Potomac River Basin
Sally Bowen - MD Department of Natural Resources
Mary Lou Daniel - Occoquan Watershed Monitoring Laboratory
Joe Dorsey - US Environmental Protection Agency
Suzanne Doughten - Old Dominion University
Gary Du - VA Department of Environmental Quality
Adel Godrej - Occoquan Watershed Monitoring Laboratory
Edythe Humphries - DE Department of Natural Resources and Environment
David A. Jasinski - University of Maryland
Cindy Johnson - VA Department of Environmental Quality
Asoka Katumuluwa - MD Department of Health and Mental Hygiene
Nancy Kaumeyer - University of MD
Carolyn Keefe - University of MD
Mary Ellen Ley - US Geological Survey
Deborah Miller-Tuck - MD Department of Health and Mental Hygiene
Marcia Olson - National Oceanic and Atmospheric Administration
Carol Pollard - VA Institute of Marine Science
Robert Potts - VA Division of Consolidated Laboratory Services
Al Robertson - DC Department of Health
Elaine Schaeffer - Fairfax County
Lori Sprague - US Geological Survey
Kathy Wood - Chesapeake Biological Lab
Carl Zimmermann - Chesapeake Biological Lab

Citizens Monitoring Workgroup - The purposes of the Workgroup are to:

- interpret and communicate the results of the Chesapeake Bay Citizen Monitoring Program;
- establish protocols for adding or deleting sites and/or projects from the Chesapeake Bay Citizen Monitoring Program;
- improve coordination with state and local citizen monitoring programs;
- work with the Bay Program, state and local government, and community groups to recruit and train volunteers for targeted areas and/or projects; and
- coordinate with Bay Program subcommittees and workgroups to identify areas where Citizen Monitoring may be appropriate.

Stacey Moulds - **Chair**, Alliance for the Chesapeake Bay
Stacey Brown - VA Department of Environmental Quality
Mary Ellen Ley - US Geological Survey
Thomas Parham - MD Department of Natural Resources
Cheryl Snyder - PA Department of Environmental Protection

Data Management and Acquisition Workgroup - The Workgroup is to provide oversight for the management of data generated by the projects funded by the Monitoring Subcommittee and for the acquisition of data needed for those projects. The Workgroup and the Bay Program Data Center work together to resolve data management issues which include:

- developing data management and submission policies and guidelines;
- ensuring agency and institution compliance with these policies;
- assisting in the development of new databases to serve the needs of the Monitoring Subcommittee; and
- ensuring timely access to the data by all participating Program partners.

Rick Hoffman - **Chair**, VA Department of Environmental Quality
Tony Allred - MD Department of Natural Resources
Ricky Bahner - Interstate Commission on the Potomac River Basin
Robert E. Edwards - Susquehanna River Basin Commission
Carlton Haywood - Interstate Commission on the Potomac River Basin
Tally Huang - MD Department of Natural Resources
Cliff Jarmon - DC Department of Health
Cindy Johnson - VA Department of Environmental Quality
Mike Lane - Old Dominion University
Mary Ellen Ley - US Geological Survey
Bruce Michael - MD Department of Natural Resources
Marcia Olson - National Oceanic and Atmospheric Administration
Joe Winfield - Old Dominion University

Nontidal Tributaries Workgroup - The mission of the Workgroup is to coordinate and improve the efficiency of monitoring programs, and analyze the data from these programs to better understand the response of water quality to ecosystem stressors and management measures in the nontidal portion of the Chesapeake Bay watershed. Coordination is focused on design of a nontidal water quality monitoring network which includes: 1) prioritizing monitoring stations; 2) attempting to have compatible collection, analytical, and data-management techniques between programs so data are comparable; and 3) routinely communicating the results. Primary data analysis activities include: a) routine updating of key water-quality trends; b) explaining the changes in occurrence and trends by relating the natural and man-influenced factors; and c) use of this information to help guide restoration efforts in the Bay watershed, including revision of tributary strategies and the watershed model.

Scott Phillips - **Chair**, US Geological Survey
Ed Brezina - PA Department of Environmental Protection
Emery Cleaves - MD Geological Survey
Robert E. Edwards - Susquehanna River Basin Commission
Ram Gupta - VA Chesapeake Bay Local Assistance Department
Carlton Haywood - Interstate Commission on the Potomac River Basin
Rick Hoffman - VA Department of Environmental Quality
Ron Klauda - MD Department of Natural Resources
Mike Langland - US Geological Survey
Mary Ellen Ley - US Geological Survey
Russell Mader - Natural Resources Conservation Service
Bruce Michael - MD Department of Natural Resources
Paul Miller - MD Department of Natural Resources
Steve Preston - US Geological Survey
Jeff Raffensperger - US Geological Survey
Mick Senus - US Geological Survey
Gary Shenk - US Environmental Protection Agency
Richard Shertzer - PA Department of Environmental Protection
Paul J. Sneeringer - US Army Corps of Engineers
Lori Sprague - US Geological Survey

Tidal Water Quality Workgroup - This Workgroup is responsible for coordinating water quality and lower trophic level (phytoplankton, zooplankton, benthos) monitoring in the tidal tributaries and mainstem Bay. The Workgroup is also responsible for coordinating multi-agency data analysis, interpretation, and reporting of results from these monitoring programs.

Richard Artz - National Oceanic and Atmospheric Administration
Peter Bergstrom - US Fish and Wildlife Service
Claire Buchanan - Interstate Commission on the Potomac River Basin
Emery Cleaves - MD Geological Survey
Daniel M. Dauer - Old Dominion University
John Donat - Old Dominion University
Elizabeth Ebersole - MD Department of Natural Resources
Robert E. Edwards - Susquehanna River Basin Commission
Ram Gupta - VA Chesapeake Bay Local Assistance Department
Larry Haas - VA Institute of Marine Science
George Harman - MD Dept. of the Environment
Carlton Haywood - Interstate Commission on the Potomac River Basin
Rick Hoffman - VA Department of Environmental Quality
David A. Jasinski - University of Maryland
Renee Karrh - MD Department of Natural Resources
Richard Lacouture - Academy of Natural Sci. Estuarine Research Center
Jurate Landwehr - US Geological Survey
Mike Lane - Old Dominion University
Mike Langland - US Geological Survey
Mary Ellen Ley - US Geological Society
Roberto Llanso - Versar, Inc.
Robert Magnien - MD Department of Natural Resources
Bruce Michael - MD Department of Natural Resources
Stacey Moulds - Alliance for the Chesapeake Bay
Marcia Olson - National Oceanic and Atmospheric Administration
Scott Phillips - US Geological Survey
Bill Romano - MD Department of Natural Resources
Richard Shertzer - PA Department of Environmental Protection
Steve Yochum - US Geological Survey

Implementation Subcommittee

NUTRIENT SUBCOMMITTEE

Responsibilities

The Subcommittee addresses issues related to the identification and control of nutrient pollution from point and nonpoint sources. The primary charge to the Subcommittee is to improve nutrient pollution programs and implementation of nutrient reduction strategies among the jurisdictions and agencies to meet *Chesapeake 2000* agreement goals and objectives. This is achieved through technology transfers at regular meetings of the Subcommittee and its workgroups, and focused special conferences and tours.

The Subcommittee is responsible for (1) cooperative design, coordination and assessment of point and nonpoint pollution control programs and practices; (2) Tributary Strategy implementation and coordination, nutrient reduction progress tracking and issue resolution; (3) reporting progress toward *Chesapeake 2000* agreement nutrient and sediment reduction goals; and (4) identification of needed nutrient related research. Accomplishment of these tasks is achieved through the activities of workgroups and task forces.

The Subcommittee develops program criteria, establishes methodologies for collecting and evaluating nutrient reduction results, identifies needed research, and promotes information sharing, education and outreach. The Subcommittee also provides technical expertise to other committees, subcommittees or workgroups within the Chesapeake Bay Program as requested or assigned.

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Workgroups: Forestry Workgroup, Point Source Workgroup, Sediment Workgroup, Tributary Strategy Workgroup.

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Workgroups: Agricultural Nutrient Reduction Workgroup, Trading and Offsets Workgroup, Urban Stormwater Workgroup.

Organizational List

Nutrient Subcommittee

- Agricultural Nutrient Reduction Workgroup
- Forestry Workgroup
- Point Source Workgroup
- Sediment Workgroup
- Trading and Offsets Workgroup
- Tributary Strategy Workgroup
- Urban Stormwater Workgroup (Joint with Toxics Subcommittee)

Nutrient Subcommittee Membership

Thomas W. Simpson - **Chair**, University of MD
John C. Barber - US Forest Service (Retired)
Steve Bieber - MD Department of the Environment
Mike Bowman - VA Department of Conservation and Recreation
Susan Claus - DC Department of Health
Richard Cooksey - US Forest Service
Scott Crafton - VA Chesapeake Bay Local Assistance Department
Mike Langland - US Geological Survey
Marya Levelev - MD Department of the Environment
Russell Mader - Natural Resources Conservation Service
John Murtha - PA Department of Environmental Protection
Russ Perkinson - VA Department of Conservation and Recreation
Steele Phillips - Small Grain Farmer
Royden Powell - MD Department of Agriculture
Collin H. Powers - VA Department of Environmental Quality
Mark Waggoner - Natural Resources Conservation Service
Allison Wiedeman - US Environmental Protection Agency

Agricultural Nutrient Reduction Workgroup - The Workgroup coordinates and evaluates agricultural nutrient reduction measures to help restore the health and productivity of the Chesapeake Bay while encouraging participation of the agricultural community, local governments, and the private sector. Objectives include:

1. Assist jurisdictions in developing or refining agricultural nutrient management programs which will help maximize nutrient reductions while maintaining a sustainable agricultural base.
2. Evaluate alternatives and provide recommendations for animal management systems.
3. Explore methods to establish and expand partnerships and encourage communication between and among the various agricultural, environmental, and business stakeholder groups and the Chesapeake Bay Program's signatory agencies.
4. Refine and advance efforts currently under way that focus on a uniform nutrient management reduction accounting and assessment system for both cost shared and non-cost shared BMPs.
5. Identify nutrient related research gaps and demonstration project opportunities for possible Bay Program funding.
6. Review and report on standards for soil and water quality conservation planning.

Russ Perkinson - **Chair**, VA Department of Conservation and Recreation

Johan Berger - PA Department of Agriculture

Doug Goodlander - PA State Conservation Commission

Jerry Griswold - Natural Resources Conservation Service

Tom Juengst - PA Department of Environmental Protection

James Lewis - Caroline County Extension Office

Donald M. Robinson - Lancaster County Conservation District

Fred Samadani - MD Department of Agriculture

Randy Shank - VA Department of Conservation and Recreation

Forestry Workgroup - The Forestry Workgroup coordinates, develops and implements plans and projects which focus on the contributions of forest lands in restoring the health and productivity of the Chesapeake Bay watershed and retaining their economic potential. The Workgroup provides a forum to discuss issues and identify opportunities among the forestry community, interested individuals and organizations, and federal, state and local governments. The Workgroup brings natural resource management expertise to Chesapeake Bay Program subcommittees. Objectives are to:

1. Enhance communication and education regarding forestry issues within the Bay watershed.
2. Identify the need and opportunities for demonstration projects and program development.
3. Promote the establishment and management of forests and trees in urban, rural, and developing areas to improve water quality, and aquatic and terrestrial habitats associated with the Chesapeake Bay and its tributaries.
4. Promote forestry research and monitoring needed to evaluate forest contributions toward protection and restoration of the Chesapeake Bay.
5. Ensure that forest resource information pertinent to the Chesapeake Bay is available to individuals and organizations interested and/or involved in implementing the Chesapeake Bay Program.

John C. Barber - **Chair**, US Forest Service (Retired)
Leon E. App - VA Department of Conservation and Recreation
Tom Bailey - US Forest Service
Richard Cooksey - US Forest Service
Matthew Ehrhart - Chesapeake Bay Foundation
Scott English - US Army Environmental Center
J. Michael Foreman - VA Department of Forestry
Michael T. Goergen, Jr. - Society of American Foresters
Anne Hairston-Strang - MD Department of Natural Resources
Kirk J. Havens - VA Institute of Marine Science
Steve Koehn - MD Department of Natural Resources
Brian Lecouteur - Metropolitan Washington Council of Governments
Brook Lenker - Alliance for the Chesapeake Bay
Russell Mader - Natural Resources Conservation Service
Jim McElfish - Environmental Law Institute
Gene Odat - PA Bureau of Forestry
Steve Olson - Commander, Navy Region Mid-Atlantic
Bill Schultz - US Fish and Wildlife Service
Bill Street - Chesapeake Bay Foundation
Jessica Strother - Fairfax County, Urban Forestry Department
Bob Tjaden - University of MD
Albert H. Todd - US Forest Service
Deborah G. Weller - MD Office of Planning
Lauren Wenzel - MD Department of Natural Resources
Douglas Wetmore - Chesapeake Bay Local Assistance Department

Point Source Workgroup - The Point Source Workgroup was created in 1995 to establish a formal means of communication between and among the point source agencies within the jurisdictions and corresponding federal agencies. The Workgroup's mission is to explore the emerging technologies and innovative management opportunities needed to reduce nutrient levels from wastewater treatment plants to meet Chesapeake Bay Program nutrient reduction goals. Charges are to:

1. Provide a forum for the discussion and exchange of information between the jurisdictions and the Bay Program concerning nutrient loading estimates, nutrient removal technologies, and cost of implementation.
2. Review nutrient reduction progress annually and provide the information to the Tributary Strategy Workgroup for inclusion in their annual Tributary Statement of Progress.
3. Bring emerging technology issues and research topics to the Nutrient Subcommittee for discussion.

Marya Levelev - **Chair**, MD Department of the Environment

Michael P. Carolan - VA Dept. of Environmental Quality

Christopher Clarkson - Metropolitan Washington Council of Governments

John Kennedy - VA Department of Environmental Quality

John Murtha - PA Department of Environmental Protection

Tanya Spano - Metropolitan Washington Council of Governments

Allison Wiedeman - US Environmental Protection Agency

Trading and Offsets Workgroup - The Workgroup was formed in 1999 as part of a Bay Program-wide effort to address maintenance of the Chesapeake Bay Program Nutrient Reduction Goal and Cap. The mission of the Workgroup is to lead the effort to examine and explore nutrient reduction scenarios through trading or offsets and to educate the Chesapeake Bay Program on the results of their investigations.

Walden R. Kerns - **Co-Chair**, VA Tech

Allison Wiedeman - **Co-Chair**, US Environmental Protection Agency

David Evans - McGuire, Woods, Battle & Boothe

Jerry Griswold - Natural Resources Conservation Service

Cyrus K. Jones - MD Association of Municipal Wastewater Agencies

John Kennedy - VA Department of Environmental Quality

Marya Levelev - MD Department of the Environment

John Murtha - PA Department of Environmental Protection

Len Shabman - VA Tech

Tanya Spano - Metropolitan Washington Council of Governments

Tributary Strategy Workgroup - The Workgroup was created in 1995 and provides a forum for communication and discussion among Bay Program partners on technical issues related to Watershed Model processes, tributary strategy development and implementation, and BMP tracking. Objectives are to:

1. Maintain communication between jurisdictions on technical issues related to tributary strategies.
2. Coordinate and consolidate tributary strategy implementation.
3. Provide technical review and recommendations to the Nutrient Subcommittee and Modeling Subcommittee on Watershed Model processes and input data.
4. Provide support and technical expertise to other subcommittees and the Water Quality Technical Workgroup as requested.
5. Coordinate review and technical evaluation of revised tributary strategies, Watershed Model scenarios and proposed revised nutrient caps.
6. Identify new or improved BMPs for consideration in revised tributary strategies.

Mike Bowman - **Chair**, VA Department of Conservation and Recreation

Mark Bennett - VA Department of Conservation and Recreation

Michael P. Carolan - VA Department of Environmental Quality

Kevin Coyne - MD Department of Natural Resources

Donald Fiesta - PA Department of Environmental Protection

Lewis Linker - US Environmental Protection Agency

Russell Mader - Natural Resources Conservation Service

Kenn Pattison - PA Department of Environmental Protection

Andrea Ryon - Metropolitan Washington Council of Governments

Gary Shenk - US Environmental Protection Agency

Thomas W. Simpson - University of MD

Helen Stewart - MD Department of Natural Resources

Jeffrey Sweeney - University of MD

Urban Stormwater Workgroup - The Nutrient Subcommittee's Urban Workgroup is being restructured to incorporate all urban stormwater issues beyond nutrients. In an effort to successfully address this, the Nutrient Subcommittee is teaming up with the Toxics Subcommittee. The result will be an Urban Stormwater Workgroup, which will be formed later in 2001.

An Urban Stormwater Task Force was formed in the fall of 2000 to oversee the initial make-up and establish the framework of projects and permanent membership for the workgroup. Both groups will be co-chaired by members of the Nutrient and Toxics Subcommittees. The Task Force will give stakeholders an opportunity to set goals and guide the direction the Chesapeake Bay Program will take on issues related to the prevention and reduction of chemical contaminants, nutrients and sediment from urban and suburban runoff.

The *Chesapeake 2000* agreement states that by 2001, an Executive Council Directive will be developed to address stormwater management to control nutrient, sediment and chemical contaminant runoff from state, federal and District owned land. By working with local governments, the development and implementation of emerging urban stormwater retrofit practices to improve water quantity and quality function can be achieved.

Marc Aveni – **Co-Chair**, VA Cooperative Extension
Scott Crafton – **Co-Chair**, VA Chesapeake Bay Local Assistance Department
Keely Clifford – **Coordinator**, US Environmental Protection Agency

Implementation Subcommittee

TOXICS SUBCOMMITTEE

Responsibilities

The Subcommittee is charged with implementing the *Toxics 2000* strategy signed by the Chesapeake Executive Council in December 2000. The Subcommittee is responsible for the interjurisdictional design, coordination, and implementation of ongoing and future efforts to identify, assess and control existing sources of chemical contaminants, better understand their impacts on the Bay's living resources and human health, and prevent future sources of chemical contaminants from causing impacts on the Chesapeake Bay system.

The Toxics Subcommittee solicits the cooperation and involvement of other subcommittees and takes the lead in coordinating and implementing activities related to chemical contaminants which fall under the responsibilities of appropriate organizations and agencies within the basin.

The Toxics Subcommittee is currently in the process of restructuring its workgroups to achieve the *Toxics 2000* strategy commitments. The Subcommittee is establishing new membership for the new workgroups. The Pollution Prevention Workgroup, Pesticides Workgroup, Directed Toxics Assessment Workgroup, and Toxics Characterization Workgroup (formerly Regional Focus Workgroup) are the only previously existing workgroups that will remain.

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Email: crew.darin@epa.gov

Organizational List

Toxics Subcommittee

- Fish Advisory Workgroup
- Directed Toxics Assessment Workgroup
- Pesticides Workgroup
- Point Source Workgroup
- Pollution Prevention Workgroup
- Toxics Characterization Workgroup
- Urban Stormwater Workgroup (Joint with Nutrient Subcommittee)

Toxics Subcommittee Membership

Robert Summers - **Chair**, MD Department of the Environment
David E. Bailey - Potomac Electric Power Company
Tom Barron - PA Department of Environmental Protection
Keely Clifford - US Environmental Protection Agency
Kim Coble - Chesapeake Bay Foundation
Kelly Eisenman - US Environmental Protection Agency
Steve Farkas - Constellation Energy Group
Jerry Griswold - Natural Resources Conservation Service
Paul Jiapizian - MD Department of the Environment
Al Jordan - W.R. Grace and Company
Anita Key - DC Department of Health
Jonathan Kramer - MD Sea Grant College Program
Robert Magnien - MD Department of Natural Resources
Beth McGee - US Fish and Wildlife Service
Cherie Miller - US Geological Survey
Timothy J. Murphy - Metropolitan Washington Council of Governments
Harriette Phelps - University of the District of Columbia
Jonathan Phinney - American Society of Limnology and Oceanography
Mark Richards - VA Department of Environmental Quality
Morris Roberts - VA Institute of Marine Science
Cherie Schultz - Interstate Commission on the Potomac River Basin
Mary Ellen Setting - MD Department of Agriculture
Bob Steidel - Hopewell Regional Wastewater Facility
Jim Stine - Constellation Energy Group
Nathalie Valette-Silver - National Oceanic and Atmospheric Administration
David Velinsky - Academy of Natural Sciences
Brian Walls - U.S. Army Corps of Engineers
Allison Wiedeman - US Environmental Protection Agency

Fish Advisory Workgroup - The Workgroup is responsible for overseeing the evaluation of fish tissue monitoring and outreach programs. The Workgroup will provide advice and information to other Bay Program groups to coordinate development of strategies to prevent or reduce chemical contaminants responsible for fish consumption advisories.

Kelly Eisenman - **Chair**, US Environmental Protection Agency
Kim Coble - Chesapeake Bay Foundation
James R. Collier - DC Department of Health
Jeff Corbin - Chesapeake Bay Foundation
Bob Frey - PA Department of Environmental Protection
Jean W. Gregory - VA Department of Environmental Quality
Paul Jiapizian - MD Department of the Environment
Charles Kanetsky - US Environmental Protection Agency
Arthur Laroche - VA Department of Game and Inland Fisheries
Ira Palmer - DC Department of Health
Fred Pinkney - U.S. Fish and Wildlife Service
Khizar Wasti - VA Department of Health

Directed Toxics Assessment Workgroup - The Workgroup is responsible for the continued development of the Basinwide Loading and Release Inventory; identification of the monitoring and assessment projects necessary to support future revisions and enhancements to the Inventory; and working with the Bay scientific community on developing a toxics mass balance framework for the Chesapeake Bay.

David Velinsky - **Co-Chair**, Academy of Natural Sciences
Allison Wiedeman - **Co-Chair**, US Environmental Protection Agency
Joel E. Baker - University of MD
Jeffrey Cornwell - University of MD- Center for Environmental Science
Kelly Eisenman - US Environmental Protection Agency
Anita Key - DC Department of Health
Cherie Miller - US Geological Survey
Percy A. Pacheco - National Oceanic and Atmospheric Administration
Mark Richards - VA Department of Environmental Quality
Jim Sanders - Old Dominion University
Joe Scudlark - University of DE
Mike Unger - VA Institute of Marine Science
Nathalie Valette-Silver - National Oceanic and Atmospheric Administration

Pesticides Workgroup - The Workgroup is responsible for coordinating basinwide efforts to survey pesticide application patterns; assessing pesticide releases and loadings to the Bay and watershed; promoting transfers of information and innovative pest management approaches between jurisdictions; and targeting and tracking implementation of integrated pest management practices and best management practices throughout the Chesapeake Bay basin.

Marc Aveni - **Co-Chair**, VA Cooperative Extension
Randy Shank - **Co-Chair**, VA Department of Conservation and Recreation
Lee Bentz - PA Department of Agriculture
Amy Brown - University of MD
Susan Debolt - Virginia Cooperative Extension
Kelly Eisenman - US Environmental Protection Agency
Fatima El Abdaoui - US Environmental Protection Agency
Lynn Garling - PA Integrated Pest Management Program
Ames Herbert - VA Cooperative Extension
Marvin Lawson - VA Dept of Agriculture & Consumer Affairs
Betty Marose - University of MD
Edward Rajotte - Penn State University
Michael Raupp - University of Maryland
Sandra Sandanelli - University of Maryland
Mary Ellen Setting - MD Department of Agriculture
Paula Shrewsbury - University of Maryland

Point Source Workgroup - The Workgroup is responsible for conducting the data analysis for point source commitments in the *Toxics 2000* strategy; coordinating with the Pollution Prevention Workgroup to recruit and inform industry and publicly owned wastewater treatment facilities about the commitments; and identifying an approach for improving point source load estimates; and identify technology and information needs from industry and publicly owned treatment facilities.

Bob Steidel - **Chair**, Hopewell Regional Wastewater Facility
Dave Bailey - Mirant
Evans Drake - Allied Signal, Inc.
Steve Farkas - Constellation Energy Group
John Handzo - VA Department of Environmental Quality
George Kennedy - Hampton Roads Sanitation District
John Kennedy - VA Department of Environmental Quality
April Marcy - Alliance for the Chesapeake Bay
John Murtha - PA Department of Environmental Protection
Mark Richards - VA Department of Environmental Quality
Steve Shofar - Washington Suburban Sanitation Commission
Jim Stine - Constellation Energy Group
Allison Wiedeman - US Environmental Protection Agency

Pollution Prevention Workgroup - The Workgroup is responsible for coordinating pollution prevention activities related to chemical contaminants within the Chesapeake Bay watershed and developing and implementing *Businesses for the Bay*, a voluntary pollution prevention program for industries, businesses, and governmental facilities in the basin.

Steve Farkas - **Chair**, Constellation Energy Group
Laura Armstrong - MD Department of the Environment
Sharon K. Baxter - VA Department of Environmental Quality
Keith Boisvert - VA Department of Environmental Quality
Jeffrey Burke - US Environmental Protection Agency
Robert Dunn - E.I. Du Pont De Nemours & Company, Inc.
Kelly Eisenman - US Environmental Protection Agency
Amy Elahi - Washington Gas
Leroy Gilbert - WV Department of Environmental Protection
Tom Griffin - VA Department of Environmental Quality
Rodger Harrison - Grace Davison
Nick Kauffman - DC Department of Health
Tom Kidwell - Washington Gas
April Marcy - Alliance for the Chesapeake Bay
Robert Pace - EA Engineering, Science & Technology
Tad Radzinski - US Environmental Protection Agency
Bill Reilly - US Environmental Protection Agency
Jim Shell - Metropolitan Washington Council of Governments
Kelly Snyder - P.H. Glatfelter Company
Glenn Stephens - PA Department of Environmental Protection
Hank Topper - US Environmental Protection Agency
Curt Wells - Reynolds Metals Company
Allison Wiedeman - US Environmental Protection Agency

Toxics Characterization Workgroup - The Workgroup is responsible for updating the *1999 Toxics Characterization* which reports the status of chemical contaminant impacts on the tidal rivers and mainstem of the Chesapeake Bay. The Workgroup is also responsible for identifying chemical contaminant assessment needs.

Brian Burch - US Environmental Protection Agency
Kelly Eisenman - US Environmental Protection Agency
Paul Jiapizian - MD Department of the Environment
Jules Loos - Southern Energy
Beth McGee - US Fish and Wildlife Service
Mark Richards - VA Department of Environmental Quality
Jim Stine - Constellation Energy Group
David Velinsky - Academy of Natural Sciences

Urban Stormwater Workgroup - Joint Toxics and Nutrient Subcommittee being formed in 2001. See page 47.

CITIZENS ADVISORY COMMITTEE

Responsibilities

The Citizens Advisory Committee (CAC) provides advice and guidance to the Executive Council, Implementation Committee and all subcommittees as needed in implementing the *Chesapeake 2000* agreement. Members communicate with their constituencies to increase understanding of the agreement and programs to restore and protect the Bay. They also advise the Executive Council and its institutions on policy matters and public perceptions.

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Citizens Advisory Committee Membership

William J. Whitney, Jr. - **Chair**, The Whitney Group
Roy A. Hoagland - **Vice-Chair**, Chesapeake Bay Foundation
Mary Apostolico - VA Department of Conservation and Recreation
Gary H. Baise - Baise, Miller & Freer
Carl Cole - Management Consultant
James W. Cox - Resource Conservation, Inc.
Jim Elliott - Hunton & Williams
Kurt G. Erickson - Washington Regional Alcohol Program
C. Victor Funk - PA Dept. of Environmental Protection (Retired)
J. Andrew Hadley - Proctor & Gamble
Lawrence R. Herman - VA Dept of Environmental Quality
Ted Jackson - Loudon County Sanitation Authority
Mark Kalish - Michael T. Rose Companies
Andrew Loftus - Natural Resources Consultant
William Martin, Jr. - US Patent Office (Retired)
Kay McElvey - Harriet Tubman Organization
Jack Nelson - DC Department of Housing and Community Development
Steele Phillips - Small Grain Farmer
Timothy Pula - Struever Bros., Eccles & Rouse
Betsy J. Quant - Canoe Susquehanna
Lina Vlavianos - Severn River Commission
Mary Roe Walkup - MD State Delegate
Al Wenger - Wenger Feeds
John McNeil Wilkie - Tatum CFO

LOCAL GOVERNMENT ADVISORY COMMITTEE

Responsibilities

The Local Government Advisory Committee (LGAC) was established in 1988 and is composed of local government representatives from Maryland, Virginia and Pennsylvania, and the District of Columbia. The LGAC is to assume both a proactive and reactive policy development role in advising the Bay Program on how to most effectively, equitably, and expeditiously implement the projects and other actions required to engage the support of local governments to achieve the goals of the Bay Program. The Committee gives advice on matters relating to local governments to the Executive Council, the Principals' Staff Committee and the Implementation Committee. It is supported by and helps to implement the *Local Government Participation Action Plan*.

Staff Contact:

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Organizational Chart

Local Government Advisory Committee

- Executive Subcommittee

Local Government Advisory Committee Membership

Executive

Chair, Patricia O'Bannon
VA Vice-Chair, Robert Barlow
MD Vice-Chair, Fred Sissine
PA Vice-Chair, Edward C. Goodhart, III
DC Vice-Chair, Sheila Besse

Maryland Members

Fred Sissine, Mayor, Mount Rainier
J. Harry Norris, Mayor, Leonardtown
Elizabeth Tolbert, Mayor, Barnesville
Raymond Langston, Mayor, Highland Beach

Virginia Members

Patricia O'Bannon, Supervisor of Tuckahoe Magisterial District
Robert Barlow, Attorney
David Brickley, VA Department of Conservation and Recreation
Gloria T. Fisher, Consultant
Harvey Hinson, Henrico County
Dan Rinzel, Esquire

Pennsylvania Members

Edward C. Goodhart, III, PA State Association of Township Supervisors
John Garner, PA League of Cities and Municipalities
Robert C. Gerhard, Jr., Cheltenham Township
Russell Pettyjohn, Lititz Borough
Harry Stokes, Adams County
Amy Sturges, PA League of Cities and Municipalities
James Wheeler, PA State Association of Township Supervisors

District of Columbia Members

Sheila Besse, DC Department of Health
Theodore J. Gordon, DC Department of Health
William Rumsey, Jr., Council of the District of Columbia

SCIENTIFIC AND TECHNICAL ADVISORY COMMITTEE

Responsibilities

The Scientific and Technical Advisory Committee (STAC) provides scientific and technical advice to the Chesapeake Bay Program and reports annually to the Executive Council and quarterly to the Implementation Committee. STAC is composed of members drawn from federal and state agencies, universities, research institutions, and private industry, representing a cross-section of individuals with diverse scientific and technical backgrounds and areas of expertise that are important to the Bay Program.

Since its creation in 1984, STAC has worked to enhance scientific communication and outreach throughout the Chesapeake Bay watershed and beyond. STAC provides scientific and technical advice in various ways, including: (1) technical conferences and workshops; (2) technical reports and position papers; (3) assistance in organizing merit reviews of Chesapeake Bay Program subcommittee activities; and (4) service by STAC members on subcommittees and workgroups. STAC serves as a liaison between the scientific/engineering community and the Bay Program. Through professional and academic contacts and organizational networks of its members, STAC ensures close cooperation among and between the various research institutions and management agencies represented in the Bay watershed. The Chesapeake Research Consortium, Inc. provides staff and logistic support.

STAC Members and Alternate Members provide independent scientific and technical guidance, and act as liaisons between home institutions/agencies and the Chesapeake Bay Program. Members are appointed on the basis of expertise and experience, ability to participate actively in the Chesapeake Bay Program, and ability to represent their institutions.

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Organizational List

Scientific and Technical Advisory Committee

STAC Members
STAC Alternate Members
STAC Executive Board
Ad-hoc Groups

Scientific and Technical Advisory Committee Membership

Walden R. Kerns - **Chair**, VA Tech
Jonathan Kramer - **Vice-Chair**, MD Sea Grant College Program
Mary Beth Adams - US Forest Service
L. Joseph Bachman - US Environmental Protection Agency
Donald Boesch - University of MD- Center for Environmental Science
Eugene Burreson - VA Institute of Marine Science
Ray Cheng - ECI Systems and Engineering
Judith Freeman - National Oceanic and Atmospheric Administration
Edward Graham - Metropolitan Washington Council of Governments
Bruce Hicks - National Oceanic and Atmospheric Administration
Edward Houde - University of MD- Center for Environmental Science
Cynthia M. Jones - Old Dominion University
John Keene - University of PA
Ronald Korcak - Agricultural Research Service
Douglas Lipton - University of Maryland
James Lynch - Penn State University
Garry F. Mayer - National Oceanic and Atmospheric Administration
Jack McGee - VA Department of Transportation
Scott Phillips - US Geological Survey
Jonathan Phinney - American Society of Limnology and Oceanography
Harry B. Pionke - Agricultural Research Service
Clifford W. Randall - VA Tech
Bill Rickards - VA Sea Grant College Program
Richard Weismiller - University of MD
Victor Wenk - TWG

Alternates:

Nelson Adcock - GeoEnvironmental Resources Inc.
Gary Felton - University of MD
Roger Newell - University of MD- Center for Environmental Science
Catherine O' Riordan - American Geophysical Union
Andrew Sharpley - Agricultural Research Service

Executive Board- Consists of Chair, Vice Chair, and other STAC members who are nominated by the Chair and Vice-Chair, and approved by the full membership. The Executive Board acts on behalf of STAC when action is needed between quarterly meetings, and serves STAC in making decisions on routine administrative matters.

Donald Boesch - University of MD- Center for Environmental Science
Walden R. Kerns - VA Tech
Jonathan Kramer - MD Sea Grant College Program
James Lynch - Penn State University
Jonathan Phinney - American Society of Limnology and Oceanography
Clifford W. Randall - VA Tech

STAC Ad hoc Groups- STAC operates mainly through ad hoc workgroups formed to tackle specific issues. Ad hoc groups generally have a leader drawn from STAC membership, but may include members drawn from the region's scientific and technical community. Ad hoc groups present their findings to STAC for endorsement and communication to the Chesapeake Bay Program. Recent examples of ad hoc workgroups include: Living Resources and Vital Habitat Protection and Restoration Workgroup, Sustainable Development and Landscape Management Workgroup, Water Quality Restoration and Protection Workgroup and Science and Technology Workgroup.

FEDERAL AGENCIES COMMITTEE

Responsibilities

The Federal Agencies Committee (FAC) was established by the Chesapeake Bay Program in 1984. The FAC is composed primarily of representatives of Federal agencies that either own land in the watershed and/or have missions that impact water quality or living resources of the Bay and its tributaries. To date, fifteen Federal agencies have formal agreements with EPA, which have made them partners in the Bay Program. Some agencies without formal agreements are still participants in the Program through membership on the FAC. There are twenty-one Federal agencies currently represented on the FAC.

The FAC is responsible for representing Federal policies in the Chesapeake Bay Program. The FAC also advises EPA, which is the sole Federal signatory to the Chesapeake Bay Agreements, and the only Federal member of the Chesapeake Executive Council. In July 1994, the FAC drafted and had signed by high level federal officials from 25 agencies and departments, the *Agreement of Federal Agencies on Ecosystem Management in the Chesapeake Bay*. The historic agreement set out a number of specific goals and commitments by Federal agencies on Federal lands throughout the watershed, as well as new cooperative efforts by Federal agencies elsewhere. In November 1998 the Federal agencies updated the 1994 agreement with the *Federal Agencies' Chesapeake Ecosystem Unified Plan (FACEUP)*. *FACEUP*, was signed by twenty-two agencies and departments, and contains 50 specific commitments to protect and restore the Chesapeake Bay.

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Organizational List

Federal Agencies Committee

- Habitat Restoration Workgroup
- Nutrient and Toxics Reduction Workgroup
- Smart Growth Workgroup

Federal Agencies Committee Membership

Gregory Peck - **Chair**, US EPA (Acting Deputy Director, Chesapeake Bay Program Office)
William Arguto - US Environmental Protection Agency
Jareene Barkdoll - Federal Highway Administration
Roger Barlow - US Geological Survey

Bob Campbell - National Park Service
Zante Capuno - US Coast Guard
Keely Clifford - US Environmental Protection Agency
Harold Coulombe - US Geological Survey
Beth Creamer - NASA Goddard
Michael Doherty - US Marine Corps
Thomas Elias - US National Arboretum, Ag. Research Service
Martin Elliott - US Army
Brian Feeney - Horne Engineering Services, Inc.
Judith Freeman - National Oceanic and Atmospheric Administration
Jannichael Graine - US Army Environmental Center
David Greene - US Geological Survey
Jerry Griswold - Natural Resources Conservation Service
Kelly Holland - General Services Administration
Marian Huber - National Park Service
Patsy Kerr - US Air Force
Robert Lindner - US Army Corps of Engineers
Thomas Long - Farm Service Agency
Sharon Marsh - US Postal Service
William Martin, Jr. - US Patent Office (Retired)
Peter J. Marx - US Environmental Protection Agency
Blanche Meeson - NASA Goddard
Lizabeth Montgomery - National Aeronautics and Space Administration
Steve Olson - Commander, Navy Region Mid-Atlantic
Robert S. Pace - US Army Corps of Engineers
Toni Patton-Williams - US Army
Nelson Powers - Defense Logistics Agency
Steven Richard - General Services Administration
Odean Serrano - National Aeronautics and Space Administration
Phil Shaw - Americorps NCCC
Mark Sherfy - US Fish & Wildlife Service
Bob Shewack - US Environmental Protection Agency
Albert H. Todd - US Forest Service
Michael Turner - US Air Force
Stacey Underwood - US Army Corps of Engineers

Habitat Restoration Workgroup- The Workgroup's mission is to utilize the technical resources of Federal agencies to restore habitat at Federal facilities, and develop an annual list of priority projects for habitat restoration on Federal lands in the Chesapeake Bay watershed.

Jeff Bossart - US Navy
Patsy Kerr - US Air Force
Peter J. Marx - US Environmental Protection Agency
Helene Merkel - Horne Engineering Services, Inc.
Mark Sherfy - US Fish and Wildlife Service
Richard Takacs - National Oceanic and Atmospheric Administration

Nutrient and Toxics Reduction Workgroup- The Workgroup conducts at least five site visits annually at federal facilities throughout the Chesapeake Bay watershed. The site visits are based on a protocol that sets out a voluntary format to achieve Chesapeake Bay Program goals. The Workgroup is also working on the issue of point source discharges at wastewater treatment plants.

Jerry Griswold - **Chair**, Natural Resources Conservation Service

Janmichael Graine - US Army Environmental Center
Marian Huber - National Park Service
Patsy Kerr - US Air Force
Helene Merkel - Horne Engineering Services, Inc.
Allison Wiedeman - US Environmental Protection Agency

Smart Growth Workgroup - This Workgroup supports the identification and implementation of new mechanisms for Federal agencies to avoid development patterns that increase pollution, to encourage redevelopment of urban areas, and to raise the quality of life. The Workgroup seeks to increase public access to the Chesapeake Bay on Federal facilities, find innovative ways to minimize environmental impacts from Federal facility construction, relocation, or expansion activities, and road and highway construction. The Workgroup also addresses stormwater management and brownfield re-use and recycling on Federal lands.

Heather Wells - **Chair**, US Army Corps of Engineers
Jareene Barkdoll - Federal Highway Administration
Bob Campbell - National Park Service
Kelly Holland - General Services Administration
Peter J. Marx - US Environmental Protection Agency
Helene Merkel - Horne Engineering Services, Inc.

CHESAPEAKE BAY GATEWAYS NETWORK WORKING GROUP

Responsibilities

The Gateways Network Working Group, established by the Implementation Committee, guides development of the Chesapeake Bay Gateways Network. The Network, which is coordinated by the National Park Service, links a diverse array of special places within the Chesapeake Bay watershed. It includes parks, wildlife refuges, historic communities, maritime museums, water trails and more. These linked Gateways allow people to more easily explore, understand and help conserve the Bay and its related resources.

Cheryl Amrani - US Fish & Wildlife Service
Bob Campbell - National Park Service
Robert Carter - VA Department of Historic Resources
John Davy - VA Department of Conservation and Recreation
Jonathan Doherty - National Park Service
Lee R. Epstein - Chesapeake Bay Foundation
Frances H. Flanigan - Alliance for the Chesapeake Bay
Tom Ford - PA Fish & Boat Commission
Meriwether German - VA Tourism Corporation
Lisa Gutierrez - MD Department of Natural Resources
Wilmer Henninger - PA Department of Conservation and Natural Resources
Elizabeth Hughes - MD Historical Trust
Derral Jones - VA Department of Conservation and Recreation
Dave Minges - Chesapeake Bay Trust
Robert Pickett - VA Department of Transportation
Sylvia Ramsey - MD Department of Transportation
Marci Wolf Ross - MD Department of Business and Economic Development
Pat Stuntz - Chesapeake Bay Commission
Larry Williamson - PA Department of Conservation and Natural Resources

WATER QUALITY STEERING COMMITTEE

The purpose of the Water Quality Steering Committee is to provide the management oversight for the process of integrating the cooperative and statutory programs of the Chesapeake Bay and its tributaries. The Steering Committee will:

- coordinate and manage the process for integrating the cooperative and statutory programs;
- provide the participating members with a forum to share information, raise issues and resolve conflicts; and,
- communicate with stakeholders and general public on the progress towards achieving the restoration of the Bay and its tributaries through the integrated process.

Rebecca Hanmer - **Chair**, US Environmental Protection Agency

Jerusalem Bekele - DC Department of Health

Bill Brannon - WV Department of Environmental Protection

Jon Capacasa - US Environmental Protection Agency

James R. Collier - DC Department of Health

Phillip M. De Gaetano - NY Department of Environmental Conservation

Mario Delvicario - US Environmental Protection Agency

Kevin Donnelly - DE Dept. of Natural Resources & Environmental Ctrl.

David Flemer - US Environmental Protection Agency

Jack E. Frye - VA Department of Conservation and Recreation

Stuart Gansell - PA Department of Environmental Protection

Peter Gold - US Environmental Protection Agency

Carlton Haywood - Interstate Commission on the Potomac River Basin

David W. Heicher - Susquehanna River Basin Commission

David Johnson - VA Department of Environmental Quality

Hamid Karimi - DC Department of Health

Jim Keating - US Environmental Protection Agency

Felix Locicero - US Environmental Protection Agency

Robert Magnien - MD Department of Natural Resources

David Paylor - VA Department of Environmental Quality

Alan Pollock - VA Department of Environmental Quality

Robert Summers - MD Department of the Environment

Ann Swanson - Chesapeake Bay Commission

Bob Yowell - PA Department of Environmental Protection

WATER QUALITY TECHNICAL WORKGROUP

Responsibilities

The Chesapeake Bay Program's Implementation Committee established the Water Quality Technical Workgroup in September 1999 with a charge to coordinate technical and scientific activities for the process for integrating the cooperative and statutory programs of the Chesapeake Bay and its tributaries. Specifically, the Workgroup will:

- coordinate the technical and scientific activities undertaken to develop nutrient and sediment enrichment numerical criteria, refined designated uses, and the methodology for their application;
- work with the Chesapeake Bay Program's Scientific and Technical Advisory Committee throughout the process of investigating, identifying and recommending the numerical criteria and refined designated uses for the Bay and its tidal rivers; and
- respond to requests for technical information received from the Chesapeake Bay Water Quality Steering Committee.

Alan Pollock - **Chair**, VA Department of Environmental Quality
Richard Batiuk - US Environmental Protection Agency
Bill Brannon - WV Department of Environmental Protection
Ed Brezina - PA Department of Environmental Protection
Claire Buchanan - Interstate Commission on the Potomac River Basin
Eugene Burreson - VA Institute of Marine Science
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Rick Hoffman - VA Department of Environmental Quality
William Hunley - Hampton Roads Sanitation District
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Scott Phillips - US Geological Survey
Thomas W. Simpson - MD Department of Agriculture
Robert Summers - MD Department of the Environment
Barbara Taylor - WV Department of Environmental Protection
Lyle Varnell - VA Institute of Marine Science
Allison Wiedeman - US Environmental Protection Agency
Carol Young - PA Department of Environmental Protection

CHESAPEAKE BAY COMMISSION

The Chesapeake Bay Commission is a tri-state legislative advisory commission, formed in 1980, which serves the General Assemblies of Maryland, Pennsylvania, and Virginia to guide the states in cooperatively managing the Chesapeake Bay. Seven-member delegations from each of the

three states include five state legislators (three from the House and two from the Senate), the Governor or their designee and a citizen representative.

The Commission is a signatory to the *Chesapeake Bay Agreement*. As a signatory, the Commission serves as the legislative arm of the Chesapeake Bay Program and is fully involved in all policy and implementation decisions.

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Bill Bolling - Senate of VA
Thelma S. Drake - VA House of Delegates
Bernie Fowler - MD Citizen Representative
Arthur D. Hershey - PA House of Representatives
David Hess - Secretary, PA Department of Environmental Protection
Irvine B. Hill - VA Citizen Representative
Jerrauld C. Jones - VA House of Delegates
Charles A. McClenahan - MD House of Delegates
J. Lowell Stoltzfus - MD Senate
Sarah J. Taylor-Rogers - Secretary, MD Department of Natural Resources
Richard A. Tilghman - Senate of Pennsylvania
Michael H. Weir - MD House of Delegates
Noah W. Wenger - Senate of Pennsylvania
Martin E. Williams - Senate of VA
George B. Wolff - PA Citizen Representative
John F. Wood, Jr. - MD House of Delegates
John Paul Woodley, Jr. - Secretary of Natural Resources, VA
Peter J. Zug - PA House of Representatives

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CHESAPEAKE BAY PROGRAM OFFICE
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