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Chesapeake Bay Program
A Watershed Partnership

AUGUST 2002

A "Who's Who" in the Chesapeake Bay Program

EPA Report Collection
Regional Center for Environmental Information
US EPA Region III
Philadelphia, PA 19103

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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US EPA Region III
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A "WHO'S WHO" IN THE CHESAPEAKE BAY PROGRAM

August 2002

Chesapeake Bay Program

A Watershed Partnership

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Cover photo: Eastern Neck Wildlife Refuge
Spring 2002
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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 (EPA), 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. Scientific and estuarine research on the Bay in the late 1970s and early 1980s 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, underwater bay grasses and other aquatic life and wildlife. Improvements include fisheries and habitat restoration, increases of underwater 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 more than 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 percent by 2000. In 1992, the Executive Council agreed to continue the 40 percent 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 percent 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 the 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 removing them from the impaired waters list by 2010. *Chesapeake 2000* addresses the sprawl and livability issues that have received national attention, by committing to reduce the rate of harmful sprawl development of forest and agricultural land in the Bay watershed by 30 percent by 2012. The agreement also commits to permanently preserving 20 percent 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

Following commitments outlined in the *Chesapeake 2000* agreement, Bay Program partners continued to work toward the creation and implementation of new programs and priorities aimed at improving conditions in the Bay watershed. The following are a few highlights from 2001.

Bay Program Announces New Water Quality Restoration Approach

In August 2001, Bay Program partners unveiled a new process for setting and achieving nutrient and sediment load reductions necessary to restore Bay water quality. This new process, called for in *Chesapeake 2000*, requires Bay Program partners to continue to build on previous nitrogen and phosphorus reduction goals, but instead of measuring improvements against broad percentage reduction goals, success will be measured by the response of the Bay's living resources.

This new process incorporates elements traditionally found in the regulatory Total Maximum Daily Load (TMDL) process, such as criteria, standards and load allocations, but also will be developed and applied through a cooperative process involving six states, the District of Columbia, local governments and involved citizens. For the first time, Delaware, New York and West Virginia are joining with the EPA, the other Bay watershed states and the District to improve water quality throughout the watershed.

Chesapeake Bay Small Watershed Grants Raise Awareness on Local Level

At an August Bayside ceremony in Annapolis, the Bay Program presented more than $1.5 million (FY 2001 funds) in Chesapeake Bay Small Watershed Grants to 59 community-led organizations and local governments from across the Bay watershed.

The Small Watershed Grants Program, administered by the National Fish and Wildlife Foundation, supports communities in developing and implementing watershed management plans and encourages innovative local programs that improve water quality and restore important habitats within the Chesapeake Bay basin. By promoting community-based stewardship of local lands, the program gives citizens a greater understanding of the relationship between the condition of their local watersheds and the health of the Bay.

Funded projects parallel commitments set forth in *Chesapeake 2000* and highlight the need for federal and state governments to work with watershed organizations to restore local water quality. Small watershed projects assist local groups in gaining the experience and technical expertise needed to improve watershed protection in their communities. Projects range from citizen water quality monitoring and riparian buffer restoration to oyster gardening, and will take place over the next year in Delaware, Maryland, New York, Pennsylvania, Virginia, West Virginia and the District of Columbia. In Fiscal Year 2002, the Chesapeake Bay Small Watershed Grants Program received

$1.75 million from the EPA, $500,000 from National Oceanic and Atmospheric Administration (NOAA), $200,000 from the US Forest Service and $100,000 from the Natural Resources Conservation Service.

Bay Program Unveils New Storm Water Management Plan

At the annual meeting of the Chesapeake Executive Council in December 2001, Bay restoration leaders unveiled an innovative plan to improve water quality by controlling storm water's contribution of chemical contaminants, nutrients and sediment to the Bay and its tributaries from federal, state and District-owned lands. Bay Program partners set an example for private landowners and local governments by committing to develop new technologies to reduce storm water pollution and enhance existing storm water management practices on government lands.

Given projected increases in urban and suburban growth, managing storm water is one of the most important priorities Bay Program partners will undertake to improve water quality and sustain progress in restoring the Bay's living resources. This directive focusing on government lands is an important step in that process.

Bay Program Partners to Continue to Lead the Restoration in 2002

In the upcoming year, Bay Program partners plan to expand efforts to include new approaches key to the revitalization of the Bay and its tributaries. In 2002, *Chesapeake 2000* calls on the Bay Program to:

- develop and implement a strategy to achieve a tenfold increase in native oyster populations by 2010;
- implement a strategy to accelerate protection and restoration of underwater bay grasses;
- set new goals and schedules for additional passages for migratory and resident fish; and,
- develop and implement a ballast water plan for the Bay and its tributaries.

Measuring Success through Living Resources

As the Bay Program has always focused on resource-oriented measures of success, the health of the Bay's plants and animals is crucial for gauging restoration progress. Below are highlights concerning key Bay living resources.

Chesapeake Bay Bald Eagles Continue Resurgence

Bald eagle populations have reached a 23-year high in the Chesapeake Bay watershed, with 2001 counts showing 618 active nests fledging 908 eaglets – a more than15 percent increase from the previous year.

Thriving in some of the most productive nesting grounds in the nation, Bay watershed bald eagle populations continue to climb to the highest levels since baywide record-keeping began in 1977. In Virginia, 300 active nests produced 446 young, while in Maryland, 297 active nests produced 432 young. Pennsylvania is home to 20 active nests and 29 young, and, for the second consecutive year, an active nest and youngster have been documented in the District of Columbia near the confluence of the Anacostia and Potomac rivers.

Bald eagle populations have benefited from numerous state efforts and baywide restoration programs aimed at improving the overall quality of local waters and the Bay. Land preservation and forest restoration will continue to improve important eagle habitat, while water quality improvements increase the eagles' available food supply.

Bay Program Meets 2000 Waterfowl Goals for Twelve Species

In May 2001, the Bay Program announced increases in several species of waterfowl living in the Bay watershed, with 12 of 21 monitored species meeting year 2000 population goals set in 1990 by the Chesapeake Executive Council.

Bay scientists attribute increased numbers of waterfowl to current restoration efforts in the Chesapeake Bay, the Atlantic Flyway and other areas that provide habitat to many species. Through the combined efforts of citizens, landowners, conservation groups and government entities, improved conditions on the breeding grounds and migratory routes have led to more waterfowl in the Chesapeake region.

Nine species of waterfowl did not reach population goals in 2001. 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.

Bay Grasses Increase in Upper and Lower Bay Regions; Middle Bay Loses Ground

From 1999 to 2000 the distribution of Chesapeake Bay submerged aquatic vegetation (SAV) slightly increased to 69,126 acres baywide. Acreage increases in the upper and lower portions of the Bay were mostly offset by the loss of bay grasses in middle portion of the Bay, resulting in a one percent baywide increase over 1999. Aerial surveys revealed that total bay grass acreage in the upper Chesapeake increased by 36 percent to 14,814 total acres and by 5 percent to 20,847 total acres in the lower Bay. Middle Bay data show a net loss of 9 percent to 33,465 total acres.

Scientists believe that Middle Bay losses were likely due to a large-scale algae bloom known as "mahogany tide" that occurred in the spring of 2000, blocking light from reaching newly sprouting grasses. Bay grasses are important to the overall health of the Chesapeake Bay because they produce oxygen, provide food for a variety of animals, provide shelter and nursery areas for fish and shellfish, including juvenile rockfish and crabs, reduce wave action and shoreline erosion, absorb

nutrients such as phosphorus and nitrogen and trap sediments. Recent improvements in water quality are a contributing factor in bay grass restoration.

2001 Oyster Harvests Down, but Oyster Restoration Programs Expand

Recent declines resulting from overharvest, disease, pollution and loss of oyster reef habitat showed signs of reversing between 1997 and 1999 as harvests increased. However, 2000 and 2001 harvests were below 1999 levels primarily due to disease-driven high mortality in the Bay. In addition, oyster spat set was very poor in 2000 in both the Maryland and Virginia portions of the Bay due to low salinities during much of the summer.

To help reverse this trend and meet the *Chesapeake 2000* goal of a tenfold increase in native oysters by 2010, Congress funded more than $5 million for oyster restoration activities in FY2002, which will also leverage addition funds from state and private sources.

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, are off-limits to commercial and private oyster harvesters. More than 28,000 acres of sanctuary were designated between 1996 and 1999. Within those designated areas, more than 260 acres of oyster habitat have already been constructed.

In 2002, Bay Program partners plan to unveil a new strategy for returning significant oyster populations to the Bay.

Shad Populations in Susquehanna Reach Highest Levels since 1980s

Recent stocking efforts, a baywide moratorium on shad fishing and the development of fish passages on the Susquehanna River have helped to increase the number of shad returning through Conowingo Dam from several hundred a year in the early 1980s to 194,000 in 2001 – still far short of the target of 1.89 million.

Stocking efforts in 2001 continued to exceed goals, with 31 million American shad fry and fingerlings reared in hatcheries and released into Bay tributaries, bringing the total number stocked by the Bay states, the U.S. Fish and Wildlife Service and tribal governments up to 320 million between 1986 and 2001. In addition to American shad, Maryland cultured and released nearly 5.3 million hickory shad fry and fingerlings into Bay tributaries in 2001.

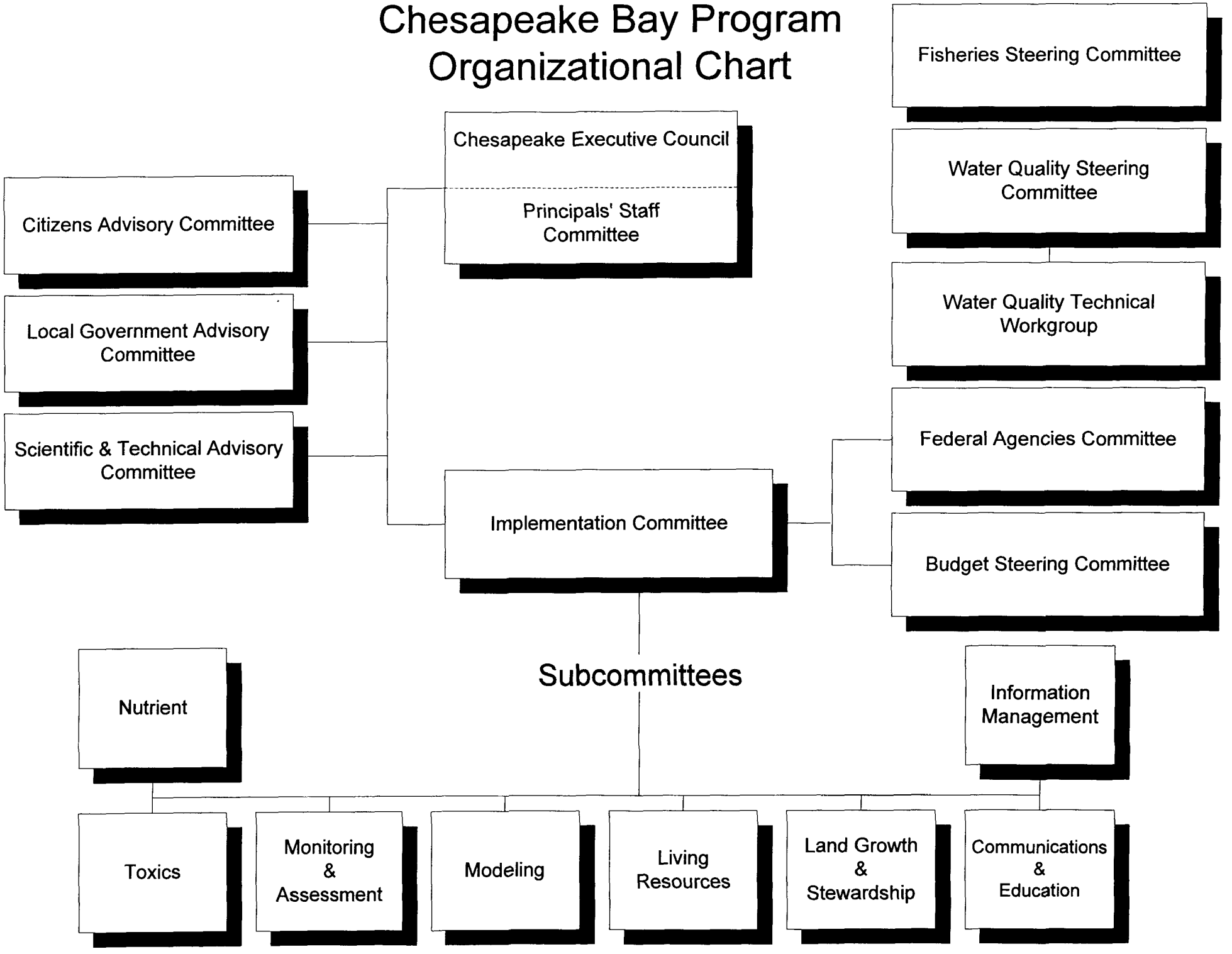
Chesapeake Bay Rockfish Populations Continue to Thrive

Striped bass, or rockfish, is one of the most important fisheries on the Atlantic coast. On January 1, 1995, the Atlantic States Marine Fisheries Commission declared the stock restored. The Striped Bass Juvenile Index recorded an increase from 2000 to 2001 and achieved its restoration goal for the seventh year in a row. Major factors in the past decline of striped bass were overharvesting and the loss of habitat. Habitat restoration and fishing moratoria in Maryland and Delaware from 1985-1990, and in Virginia from 1989-1990, are credited for the historic restoration of the striped bass stock.

Blue Crab Advisory Committee Calls for Reductions in Harvests

Chesapeake 2000 called on Bay Program partners to establish harvest targets for the blue crab fishery. In December 2000, the Bi-State Blue Crab Advisory Committee finished its review of the fishery and agreed to set new limits on annual blue crab harvests in Maryland and Virginia. The committee recommended that at least 20 percent of the blue crab breeding stock be left each year to help restore the blue crab population. The committee also identified 10 percent of the breeding stock as the minimum threshold by which the blue crab population could survive and recommended a 5 percent reduction in harvests in each of the next three years. The harvest targets were adopted by Virginia and Maryland in 2001.

Chesapeake Bay Program Organizational Chart



CHESAPEAKE EXECUTIVE COUNCIL

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 meets as needed, but at least annually, and establishes the policy direction for the restoration and protection of the Chesapeake Bay.

At its annual meeting in 2000, the Executive Council signed and released the *Chesapeake 2000* agreement, which lays out goals and commitments for the next decade. At the 2001 annual meeting the Executive Council fulfilled a major commitment in the Government-by-Example section of the *Chesapeake 2000* agreement by signing Directive No. 01-1, *Managing Storm Water on State, Federal and District-Owned Lands and Facilities*. This Directive sets an example for local governments and private landowners by demonstrating how to develop, fund and implement innovative storm water management approaches and technologies.

The Executive Council exerts leadership to marshal public support and is accountable to the public for progress made under the agreements. 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

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Christine Todd Whitman
Administrator
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PRINCIPALS' STAFF COMMITTEE

The Principals' Staff Committee acts as the policy advisor to the Chesapeake Executive Council, accepting items for their consideration and approval and setting agendas for Council meetings. The Principals' Staff Committee is primarily composed of cabinet-level representatives from the states and the District, EPA's regional administrator and Chesapeake Bay Program Office director and a representative of the Chesapeake Bay Commission. Individual members of the committee arrange and provide briefings to their principals, the members of the Executive Council. The Principals' Staff Committee, which meets approximately four times a year, 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
Elizabeth Berry - Special Assistant to the Mayor for Environmental Affairs

Hagner R. Mister - Secretary, MD Department of Agriculture
Merrylin Zaw-Mon - Acting Secretary, MD Department of the Environment
J. Charles Fox - Secretary, MD Department of Natural Resources
Roy W. Kienitz - Secretary, Department of Planning

David Hess - Secretary, PA Department of Environmental Protection
Christine Martin - Deputy Secretary for Water Management, PA Dept. of Environmental Protection
John C. Oliver - Secretary, PA Department of Conservation and Natural Resources
Richard G. Sprenkle - Deputy Secretary, PA Dept. of Conservation and Natural Resources

W. Tayloe Murphy, Jr. - Secretary of Natural Resources, VA, Office of Governor
Joe Maroon - Director, VA Department of Conservation and Recreation
Robert G. Burnley - Director, VA Department of Environmental Quality

Don Welsh - Regional Administrator, US EPA Region III
Rebecca Hanmer - Director, US EPA Chesapeake Bay Program Office

Ann Swanson - Executive Director, Chesapeake Bay Commission

Principals' Staff Committee Liaison List

Russell W. Baxter - VA Director, Chesapeake Bay Commission
Sheila Besse - DC Department fo Health
Patricia A. Buckley - PA Department of Environmental Protection
James R. Collier - DC Department of Health
Scott Crafton - VA Chesapeake Bay Local Assistance Department
Diana Esher - US Environmental Protection Agency Region III- CBP
Jack E. Frye - VA Department of Conservation and Recreation
Verna E. Harrison - MD Department of Natural Resources
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

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. All of the chairs of the program's subcommittees and advisory committees are also members. The committee is responsible for carrying out the policy decisions of the Chesapeake Executive Council, such as the *Chesapeake 2000* agreement and subsequent directives.

The Implementation Committee receives policy guidance from both the Executive Council and the Principals' Staff Committee. It establishes and coordinates all of the subcommittees and workgroups under it. 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, through its Budget Steering Committee, is responsible for making annual budget recommendations to the EPA.

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Implementation Committee Structure

Implementation Committee
Budget Steering Committee
Federal Agencies Committee
Chesapeake Bay Gateways Network Working Group

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

IMPLEMENTATION COMMITTEE

Implementation Committee Membership

Rebecca Hanmer - Chair, US EPA (Director, Chesapeake Bay Program Office)
Lowell Bahner - National Oceanic and Atmospheric Administration
Karl Brown - PA State Conservation Commission
Patricia A. Buckley - PA Department of Environmental Protection
David Butler - US Coast Guard
Bob Campbell - National Park Service
Hallie Clemm - DC Department of Public Works
James R. Collier - DC Department of Health (Chair, Modeling Subcommittee)
Steven A. Connelly - USDA Farm Service Agency
Frank Dawson - MD Department of Natural Resources (Chair, Living Resources Subcommittee)
David Doss - USDA, Natural Resources Conservation Service
Richard Eskin - MD Department of the Environment (Chair, Toxics Subcommittee)
Ron Fithian - Kent County (Chair, Local Government Advisory Committee)
Jack E. Frye - VA Department of Conservation and Recreation
Robert W. Grabb - VA Marine Resources Commission
Jennifer Greiner - US Fish and Wildlife Service
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
Nancie Imler - PA Dept. of Environmental Protection (Chair, Information Management Subcommittee)
Hamid Karimi - DC Department of Health
Waldon R. Kerns - VA Tech (Chair, Scientific and Technical Advisory Committee)
Martha Little - VA CB Local Assistance Dept. (Chair, Land, Growth & Stewardship Subcommittee)
Christine Martin - PA Governor's Office
Larry Minock - VA Department of Environmental Quality
Scott Phillips - US Geological Survey
Alan Pollock - VA Department of Environmental Quality
Royden Powell - MD Department of Agriculture
Thomas W. Simpson - University of Maryland (Chair, Nutrient Subcommittee)
Ann Swanson - Chesapeake Bay Commission
Paul O. Swartz - Susquehanna River Basin Commission
Albert H. Todd - US Forest Service
Stacey Underwood - US Army Corps of Engineers
Gary Waugh - VA Dept. of Cons. and Recreation (Chair, Communications and Education Subcommittee)
Jack J. Whitney, Jr. - The Whitney Group (Chair, Citizens Advisory Committee)
Robert Yowell - PA Department of Environmental Protection

BUDGET STEERING COMMITTEE

The Budget Steering Committee 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 Bay Program. The budget process is designed as an open and consensus-based activity with the final result being a set of recommendations to the EPA and other sponsoring agencies for funding consideration.

The BSC assists the Bay 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
Russell W. Baxter - Chesapeake Bay Commission
Sheila Besse - DC Department of Health
Carin Bisland - US Environmental Protection Agency
Patricia A. Buckley - PA Department of Environmental Protection
Bob Campbell - National Park Service
James R. Collier - DC Department of Health (Chair, Modeling Subcommittee)
Moira Croghan - VA Department of Conservation and Recreation
Frank Dawson - MD Department of Natural Resources (Chair, Living Resources Subcommittee)
Richard Eskin - MD Department of the Environment (Chair, Toxics Subcommittee)
Ron Fithian - Kent County (Chair, Local Government Advisory Committee)
Jennifer Greiner - US Fish and Wildlife Service
Verna E. Harrison - MD Department of Natural Resources
Carlton Haywood - Interstate Commission on the Potomac River Basin (Chair, Monitoring Subcommittee)
Nancie Imler - PA Department of Environmental Protection (Chair, Information Mgmt. Subcommittee)
Hamid Karimi - DC Department of Health
Cedric Karper - PA Department of Environmental Protection
Waldon R. Kerns - VA Tech (Chair, Scientific and Technical Advisory Committee)
Martha Little - VA CB Local Assistance Department (Chair, Land , Growth & Stewardship Subcommittee)
Robert Magnien - MD Department of Natural Resources
Larry Minock - VA Department of Environmental Quality
Thomas W. Simpson - University of Maryland (Chair, Nutrient Subcommittee)
Ann Swanson - Chesapeake Bay Commission
Gary Waugh - VA Dept. of Cons. and Recreation (Chair, Communications and Education Subcommittee)
Jack J. Whitney, Jr. - The Whitney Group (Chair, Citizens Advisory Committee)

COMMUNICATIONS AND EDUCATION SUBCOMMITTEE

The Communications and Education Subcommittee (CESC) is responsible for: (1) building public understanding and support of the Chesapeake Bay ecosystem 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.

The CESC 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. Additionally, the CESC provides opportunities for citizen involvement via Bay-related special events, restoration projects and K-12 educational initiatives.

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

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Communications and Education Subcommittee Structure

Communications and Education Subcommittee
Communications Workgroup
Education Workgroup

COMMUNICATIONS AND EDUCATION SUBCOMMITTEE

Communications and Education Subcommittee Membership

Gary Waugh - Chair, VA Department of Conservation and Recreation
Gilda M. Allen - DC Department of Health
David Bancroft - Alliance for the Chesapeake Bay
Kathleen Banski - PA Association of Conservation Districts
Rebecca Bell - MD State Department of Education
Kerri Bentkowski - Chesapeake Bay Trust
Elizabeth Berry - Office of the Mayor- DC
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
Darlene Crawford - PA Department of Environmental Protection
Beth Creamer - NASA Goddard
Pat Devlin - Alliance for the Chesapeake Bay
Delores Dalton - VA Department of Education
Deborah Elliott - US Army Environmental Center
Clifford A. Falkenau - Citizen
Jim Firebaugh - VA Department of Education
Joanne Goodwin - DC Environmental Health Administration
Jack Greer - MD Sea Grant College Program
Gary Heath - MD State Department of Education
Donna Heron - US Environmental Protection Agency
Mike Land - Alliance for the Chesapeake Bay
Frances Lee Larkin - VA Institute of Marine Science
Bob Maddox - MD Department of the Environment
Peter J. Marx - US Environmental Protection Agency
Laura McDaniel - Naval Air Station Patuxent River
Skip Meehan - National Park Service
Seaberry Nachbar - National Oceanic and Atmospheric Administration
Milt Nelson - University of MD (Retired)
Reggie Parrish - US Environmental Protection Agency
Ann Regn - VA Department of Environmental Quality
Kathy Reshetiloff - US Fish and Wildlife Service
Eileen Setzler-Hamilton - University of MD Center for Environmental Science
Brandy Simpson - Naval Air Station, Patuxent River
Guy Stephens - Alliance for the Chesapeake Bay
Fran Stierstorfer - MD Department of the Environment
Ann Swanson - Chesapeake Bay Commission
Nita Sylvester - US Environmental Protection Agency
Elena Takaki - MD Department of Natural Resources
Patti Vathis - PA Department of Education
Rebecca Walker - Naval Air Station Patuxent River
Lauren Wenzel - MD Department of Natural Resources
John McNeil Wilkie - Tatum CFO
Reider J White - MD Department of the Environment
Kristin Wolf - PA Department of Environmental Protection

COMMUNICATIONS AND EDUCATION SUBCOMMITTEE

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. CESC also serves in an advisory capacity to the various Bay Program subcommittees, committees and workgroups in the development and distribution of public outreach materials.

Gary Waugh - **Chair**, VA Department of Conservation and Recreation
Gilda Allen - DC Department of Health
David Bancroft - Alliance for the Chesapeake Bay
Elizabeth Berry - Office of the Mayor- DC
Thomas W. Burke - MD Department of Natural Resources
Bob Campbell - National Park Service
Carl Cole - Management Consultant
Darlene Crawford - PA Department of Environmental Protection
Pat Devlin - Alliance for the Chesapeake Bay
Deborah Elliott - US Army Environmental Center
Clifford A. Falkenau - Citizen
Joanne Goodwin - DC Environmental Health Administration
Jack Greer - MD Sea Grant College Program
Donna Heron - US Environmental Protection Agency
Mike Land - Alliance for the Chesapeake Bay
Bob Maddox - MD Department of the Environment
Peter J. Marx - US Environmental Protection Agency
Laura McDaniel - Naval Air Station Patuxent River
Skip Meehan - National Park Service
Larry Minock - VA Department of Environmental Quality
Milt Nelson - University of Maryland (Retired)
Reggie Parrish - US Environmental Protection Agency
Kathy Reshetiloff - US Fish and Wildlife Service
Brandy Simpson - Naval Air Station Patuxent River
Ann Swanson - Chesapeake Bay Commission
Nita Sylvester - US Environmental Protection Agency
Rebecca Walker - Naval Air Station, Patuxent River
Lauren Wenzel - MD Department of Natural Resources
Reider J White - MD Department of the Environment
John McNeil Wilkie - Tatum CFO
Kristin Wolf - PA Department of Environmental Protection

COMMUNICATIONS AND EDUCATION SUBCOMMITTEE

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 teachers and students with essential Bay watershed messages, as well as to integrate the messages into school curriculum. 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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Ann Regn - Chair, VA Department of Environmental Quality
Gilda M. Allen - DC Department of Health
Cheryl Amrani - US Fish and Wildlife Service
Kathleen Banski - PA Association of Conservation Districts
Rebecca Bell - MD State Department of Education
Kerri Bentkowski - Chesapeake Bay Trust
Elizabeth Berry - Special Assistant to the Mayor for Environmental Affairs
Sarah Bodor - Chesapeake Bay Foundation
Becky Boger - The GLOBE Program
Valerie Chase - National Aquarium in Baltimore
Beth Creamer - NASA Goddard
Delores Dalton - VA Department of Education
Jim Firebaugh - VA Department of Education
Gary Heath - MD State Department of Education
Frances Lee Larkin - VA Institute of Marine Science
Peter J. Marx - US Environmental Protection Agency
Seaberry Nachbar - National Oceanic and Atmospheric Administration
Reggie Parrish - US Environmental Protection Agency
Eileen Setzler-Hamilton - University of MD Center for Environmental Science
Dawn Shank - VA Department of Conservation and Recreation
Fran Stierstorfer - MD Department of the Environment
Elena Takaki - MD Department of Natural Resources
Bonita Thompson - DC Department of Health
Patti Vathis - PA Department of Education
Gary Waugh - VA Department of Conservation and Recreation
Lauren Wenzel - MD Department of Natural Resources

INFORMATION MANAGEMENT SUBCOMMITTEE

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.

The subcommittee is responsible for the implementation of the Chesapeake Information Management System (CIMS), including the maintenance of the CBP web site. CIMS is a user-friendly, organized library of information and software tools, which is distributed among participating organizations and designed to increase basinwide public access to Chesapeake Bay information. CIMS partners are committed to the development and implementation of standards and guidelines to enhance data sharing in the Chesapeake Bay region. IMS and participating agencies are dedicated to disseminating and distributing bay-related information and to educating grant recipients and CBP partners on the CIMS network, data standards, guidelines and the process of data sharing.

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INFORMATION MANAGEMENT SUBCOMMITTEE

Information Management Subcommittee Membership

Nancie Imler - Chair, PA Department of Environmental Protection
Jennifer Abdella - St. Mary's River Project
Tony Allred - MD Department of Natural Resources
Gary Anderson - VA Institute of Marine Science
Ricky Bahner - Interstate Commission on the Potomac River Basin
Roger Barlow - US Geological Survey
Claire Buchanan - Interstate Commission on the Potomac River Basin
Brian Burch - US Environmental Protection Agency
Bill Burgess - MD Department of Natural Resources
Cory Christman - Old Dominion University
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
Kate Hopkins - University of MD- Center for Environmental Science
Karl L. Huber - VA Department of Conservation and Recreation
David A. Jasinski - University of MD
Jacqueline Johnson - Interstate Commission on the Potomac River Basin
Mike Land - Alliance for the Chesapeake Bay
Robert Magnien - MD Department of Natural Resources
Caroline Molivadas - DC Department of Health
Patrick Nowlan - National Park Service
Stephanie Orndorff - University of MD- Center for Environmental Science
Glenn Page - National Aquarium in Baltimore
Guy Stephens - Alliance for the Chesapeake Bay
Jeffrey Sweeney - University of MD
Howard Weinberg - University of MD- Center for Environmental Science

LAND, GROWTH AND STEWARDSHIP SUBCOMMITTEE

The mission of the Land, Growth and Stewardship Subcommittee (LGSS) is to *develop and promote sound land use practices which protect and restore watershed resources and water quality, maintain reduced pollutant loadings for the Bay and its tributaries and restore and preserve aquatic living resources.*

Accomplishment of the LGSS mission will result in the following:

- Preservation of open space;
- Reduction in the rate of harmful sprawl development of forests and farms;
- Promotion of environmentally sensitive development, including:
  - low-impact development and similar techniques that minimize water quality impacts of new development;
  - stormwater retrofit practices that minimize the water quality impacts of existing development;
  - redevelopment of underutilized urban, suburban and rural communities, including the redevelopment of brownfields;
  - reduction of impervious cover associated with development;
  - concentration of new development in areas supported by adequate water resources and infrastructure; and
  - improved wastewater treatment options (e.g., nutrient reducing septics)
- Coordination of transportation and land use planning;
- Increase in public access to the Bay and its rivers and streams, including through the development of water trails.

In order to achieve the above results, the Land, Growth and Stewardship Subcommittee is:

- strengthening state programs
- identifying, tracking and measuring performance
- identifying barriers and incentives
- identifying and/or developing guidance and tools
- providing training, technical and financial assistance to targeted audiences

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LAND, GROWTH AND STEWARDSHIP SUBCOMMITTEE

Land, Growth and Stewardship Subcommittee Structure

Land, Growth and Stewardship Subcommittee
Development, Redevelopment and Revitalization Workgroup
Land Conservation Workgroup
Public Access Workgroup
Transportation Workgroup

Land, Growth and Stewardship Subcommittee Membership

Martha Little - Chair, VA Chesapeake Bay Local Assistance Department
Russell W. Baxter - Chesapeake Bay Commission
Karl Berger - Metropolitan Washington Council of Governments
Carin Bisland - US Environmental Protection Agency
Matt Bley - VA Department of Conservation and Recreation
Patricia A. Buckley - PA Department of Environmental Protection
Mark Bundy - MD Department of Natural Resources
Bob Campbell - National Park Service
Sally Claggett - USDA Forest Service
John Davy - VA Department of Conservation and Recreation
Georgia Earp - PA Governor's Center for Local Government Services
Lee Epstein - Chesapeake Bay Foundation
Diane Evans - MD Department of Natural Resources
Fran C. Geissler - VA Department of Conservation and Recreation
Ted Graham - Metropolitan Washington Council of Governments
Mark Kalish - MD Builders Association
David Kovacs - VA Chesapeake Bay Local Assistance Department
Menchu Martinez - US Environmental Protection Agency
Neil Ridgely - Alliance for the Chesapeake Bay
Denise Rigney - US Environmental Protection Agency
Alexi Sanchez de Boado - DC Department of Health
Len Shabman - VA Tech
Deborah G. Weller - MD Office of Planning

LAND, GROWTH AND STEWARDSHIP SUBCOMMITTEE

Development, Redevelopment and Revitalization Workgroup - The workgroup is focusing on implementing the commitments pertaining to development, redevelopment and revitalization in the *Chesapeake 2000* agreement. The workgroup is developing an overall work plan for monitoring progress on these commitments; implementing tasks and projects; and creating and implementing specific strategies for particular commitments as needed.

The workgroup, in particular, will:

- Develop a strategy for reducing the rate of harmful sprawl development of forest and agricultural land in the Chesapeake Bay watershed by 30 percent, measured as an average over five years from the baseline of 1992-1997, with measures and progress reported regularly to the Chesapeake Executive Council.
- Implement the strategy for reducing impervious cover.

In addition, the workgroup will serve as a forum for coordinating and communicating individual state progress toward various Development/Redevelopment/Revitalization commitments.

David Kovacs - Chair, VA Chesapeake Bay Local Assistance Department
Russell W. Baxter - Chesapeake Bay Commission
Carin Bisland - US Environmental Protection Agency
Georgia Earp - PA Governor's Center for Local Government Services
Lee Epstein - Chesapeake Bay Foundation
Diane Evans - MD Department of Natural Resources
Fran C. Geissler - VA Department of Conservation and Recreation
Michael C. Gerel - VA Department of Conservation and Recreation
Waldon R. Kerns - VA Tech
Menchu Martinez - US Environmental Protection Agency
Katie McHugh - MD State Builders Association
Alexi Sanchez de Boado - DC Department of Health
Maureen Tooke - International City/County Management Association
Deborah G. Weller - MD Office of Planning
Kyle Zieba - US Environmental Protection Agency

LAND, GROWTH AND STEWARDSHIP SUBCOMMITTEE

Land Conservation Workgroup - The workgroup will focus on implementing the commitments contained in the Land Conservation section of the *Chesapeake 2000* agreement. The workgroup will develop an overall work plan for monitoring progress on these commitments; implementing tasks and projects; and creating and implementing specific strategies for particular commitments as needed. The workgroup, in particular, will develop/adopt and implement a strategy to permanently preserving from development 20 percent of the land area in the watershed by 2010. A draft strategy, approved by LGSS and the Implementation Committee, lays out four tasks to accomplish this commitment:

1. Establish a preserved land baseline and tracking system.
2. Identify the "most valued lands" for protection.
3. Strengthen programs for land acquisition within each state.
4. Provide technical and financial assistance to local governments to plan for or revise plans, ordinances and subdivision regulations to provide for the conservation and sustainable use of forest and agricultural lands.

Diane Evans - Chair, MD Department of Natural Resources
Jennifer Adkins - Land Trust Alliance
Matt Bley - VA Department of Conservation and Recreation
Patricia A. Buckley - PA Department of Environmental Protection
Steve Bunker - The Nature Conservancy
Pam Bush - MD Department of Natural Resources
Rick Carlson - PA Department of Conservation and Natural Resources
Sally Claggett - USDA Forest Service
Grant Dehart - MD Department of Natural Resources
Steve Libbey - Chesapeake Bay Foundation
Wally Lippincott - Baltimore County Department of Env. Protection
Menchu Martinez - US Environmental Protection Agency
Ron Ramsey - The Nature Conservancy
Thomas Smith - VA Department of Conservation and Recreation
Mark Thompson - International City/County Management Association
Deborah G. Weller - MD Office of Planning

LAND, GROWTH AND STEWARDSHIP SUBCOMMITTEE

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 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 percent.
- 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
Patricia A. Buckley - PA Department of Environmental Protection
Bob Campbell - National Park Service
Christopher Conner - Alliance for the Chesapeake Bay
Lisa Gutierrez - MD Department of Natural Resources
Wink Hastings - National Park Service
Derral Jones - VA Department of Conservation and Recreation
Marty Kaehny - US Fish and Wildlife Service
Menchu Martinez - US Environmental Protection Agency
Peter J. Marx - US Environmental Protection Agency
Ted Prochter - DC Department of Parks and Recreation
Mark Thompson - International City/County Management Association
Ron Weis - PA Fish and Boat Commission
Kerry Wicks - MD Department of Natural Resources
Kyle Zieba - US Environmental Protection Agency

Transportation Workgroup - The workgroup will focus on implementing the commitments contained in the Transportation section of the *Chesapeake 2000* agreement. The workgroup will develop an overall work plan for monitoring progress on these commitments; coordinating state efforts; sharing information among state programs and with constituents (e.g., local governments); and creating and implementing specific strategies for particular commitments as needed. The commitments within the Transportation section include:

- By 2002, the signatory jurisdictions will promote coordination of transportation and land use planning to encourage compact, mixed-use development patterns, revitalization in existing communities and transportation strategies that minimize adverse effects on the Bay and its tributaries.

- By 2002, each state will coordinate its transportation policies and programs to reduce the dependence on automobiles by incorporating travel alternatives such as telework, pedestrian, bicycle and transit options, as appropriate, in the design of projects so as to increase the availability of alternative modes of travel as measured by increased use of those alternatives.

- Consider the provisions of the federal transportation statutes for opportunities to purchase easements to preserve resource lands adjacent to rights of way and special efforts for storm-water management on both new and rehabilitation projects.

- Establish policies and incentives that encourage the use of clean vehicle and other transportation technologies that reduce emissions.

Denise Rigney - Chair, US Environmental Protection Agency
Danielle Algazi - US Environmental Protection Agency
Meg Andrews - MD Departmentof Transportation
Patricia A. Buckley - PA Department of Environmental Protection
David Clawson - AASHTO
Derral Jones - VA Department of Conservation and Recreation
Ron Kirby - Metropolitan Washington Council of Governments
Wendy Klancher - Metropolitan Washington Council of Governments
Wayne Kober - Citizen
Tom Kotay - PA Department of Transportation
Karen Kwiterovich - Baltimore Metropolitan Council
Ben Mannell - VA Department of Transportation
Gail McFadden-Roberts - Federal Transit Administration
Steve Rapley - Federal Highway Administration
Kelly Shenk - US Environmental Protection Agency
Steve Taglang - PA Department of Environmental Protection
Maureen Tooke - International City/County Management Association
Angela Watson - PA Department of Transportation
Deborah G. Weller - MD Office of Planning
Dave Whitaker - MD Department of Planning
Richard Woody - VA Department of Transportation

LIVING RESOURCES SUBCOMMITTEE

The Living Resources Subcommittee coordinates 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: To 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: To advance the science of habitat protection and restoration through research, promotion and implementation of integrated and targeted projects/efforts.

Objective Three: To 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: To identify and prioritize emerging issues concerning living resources and their habitats and ensure rapid response and effective solutions.

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

LIVING RESOURCES SUBCOMMITTEE

Staff Contacts

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

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Workgroups: Non-Native Invasive Species Workgroup, Non-Tidal Habitat Workgroup, Ballast Water Taskforce.

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Workgroups: C2K Watershed Commitments (CWiC) Taskforce, Aquatic Health Taskgroup.

Living Resources Subcommittee Structure

Living Resources Subcommittee
Fisheries Management Planning and Coordination Workgroup
Monitoring and Modeling Workgroup
Non-Native Invasive Species Workgroup
Non-Tidal Habitat Workgroup
Tidal Habitat Workgroup
Chesapeake 2000 Watershed Commitments (CwiC) Taskforce

LIVING RESOURCES SUBCOMMITTEE

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 Science Estuarine Research Center
Nancy Butowski - MD Department of Natural Resources
Arthur Butt - VA Department of Environmental Quality
Steve Carter-Lovejoy - VA Department of Conservation and Recreation
Stuart Demanski - PA Department of Environmental Protection
Mike Fritz - US Environmental Protection Agency
William Goldsborough - Chesapeake Bay Foundation
Dave Goshorn - MD Department of Natural Resources
Richard S. Hammerschlag - US Geological Survey
Anne Henderson-Arzapalo - Aquatic Ecology Laboratory
Mike Hendricks - PA Fish and Boat Commission
Carl Hershner - VA Institute of Marine Science
Brian Hostetter - Regional Environmental Group Oceana
Edward Houde - University of MD- Center for Environmental Science
Steve Jordan - Sarbanes Cooperative Oxford Laboratory
Chris Judy - MD Department of Natural Resources
Henry Koellein - MD Saltwater Sportsman's Association
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
Eric Schwaab - MD Department of Natural Resources
Mike Slattery - US Fish and Wildlife Service
Richard St. Pierre - US Fish and Wildlife Service
Pat Stuntz - Chesapeake Bay Commission
Jack Travelstead - VA Marine Resources Commission
Lyle Varnell - VA Institute of Marine Science
Tony Watkinson - VA Marine Resources Commission
Jim Wesson - VA Marine Resources Commission
Wayne Young - MD Environmental Service

Fisheries Management Planning and Coordination Workgroup – The workgroup ensures 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 toward accomplishing the fisheries objectives of *Chesapeake 2000*. This group is the official workgroup of the Living Resources Subcommittee. The workgroup also receives guidance from the Fisheries Steering Committee.

Nancy Butowski - Chair, MD Department of Natural Resources
Ellen Cosby - VA Marine Resource Commission
Mike Fritz - US Environmental Protection Agency
John Galvez - US Fish and Wildlife Service
Bill Goldsborough - Chesapeake Bay Foundation
Dave Goshorn - MD Department of Natural Resources
Mike Hendricks - PA Fish and Boat Commission
Edward Houde - University of MD- Center for Environmental Science
Derek Orner - National Oceanic and Atmospheric Administration
Jon Siemien - DC Fisheries and Wildlife Division
Lyle Varnell - VA Institute of Marine Science
Bennie Williams - MD Department of Natural Resources

Monitoring and Modeling Workgroup – The workgroup meets regularly to review progress and a technical advisory group advises the workgroup as needed and participates in specific workgroup efforts (e.g., workshops, projects, proposal development). The workgroup includes members who also belong to the Monitoring (Data Analysis Workgroup), Modeling and Information Management Subcommittees, the Data Center and each of the Living Resources Subcommittee workgroups. The technical advisory committee includes representatives of the key Chesapeake area monitoring programs, the Science and Technical Advisory Committee and other CBP subcommittees.

Claire Buchanan - Co-Chair, Interstate Commission on the Potomac River Basin
Arthur Butt - Co-Chair, VA Department of Environmental Quality
Lowell Bahner - National Oceanic and Atmospheric Administration
Marcia Berman - VA Institute of Marine Science
Jacqueline Johnson - Interstate Commission on the Potomac River Basin
Julie Labranche - MD Department of Natural Resources
Peter May - DC Department of Health
Patrick Nowlan - National Park Service
Marcia Olson - National Oceanic and Atmospheric Administration
Derek Orner - National Oceanic and Atmospheric Administration
Edward Pendleton - US Geological Survey
Nancy Rybicki - US Geological Survey
Peter Tango - MD Department of Natural Resources
Howard Weinberg - University of MD - Eastern Shore

LIVING RESOURCES SUBCOMMITTEE

Non-Native Invasive Species Workgroup - The workgroup coordinates, integrates and promotes non-native invasive species programs and activities of signatory jurisdictions. The workgroup recommends 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 coordinates with regional and national efforts to control and prevent the spread of non-native invasive species.

Leo Dunn - Chair, PA Department of Agriculture
Standish K Allan - VA Institute of Marine Science
Paul Baicich - American Birding Association
John Booser - PA Department of Environmental Protection
Glenn Carowan - US Fish and Wildlife Service
Vicki Clark - VA Sea Grant College Program
Karen Eason - MD Department of the Environment
Jack Edmundson - USDA APHIS
Mike Fritz - US Environmental Protection Agency
Jack Greer - MD Sea Grant College Program
Jennifer Greiner - US Fish and Wildlife Service
Sharon Gross - US Fish and Wildlife Service
Richard S Hammerschlag - US Geological Survey
Kevin Heffernan - VA Department of Conservation and Recreation
Michael Hollins - Ecosystem Recovery Institute
Larry Hurley - MD Nursery and Landscape Association
Sandra Keppner - Lower Great Lakes Fishery Resources Office
Fred Kern - National Oceanic and Atmospheric Administration
Ron Klauda - MD Department of Natural Resources
Eric May - University of MD- Eastern Shore
Whitman Miller - Smithsonian Environmental Research Center
Roy W. Miller - DE Department of Natural Resources and Environmental Conservation
Steven Minkkinen - MD Department of Natural Resources
Rick Myers - VA Department of Conservation and Recreation
Mike Naylor - MD Department of Natural Resources
Butch Norden - MD Department of Natural Resources
Harriette Phelps - University of the District of Columbia
Greg Ruiz - Smithsonian Environmental Research Center
Gene Scarpulla - City of Baltimore Reservoir Natural Resources Office
Jon Siemien - DC Fisheries and Wildlife Division
Harley Speir - MD Department of Natural Resources
Ann Swanson - Chesapeake Bay Commission
Julie Thompson - US Fish and Wildlife Service
Edith Thompson - MD Department of Natural Resources
Jeff Tinsman - DE Division of Fish and Wildlife
Jack Travelstead - VA Marine Resources Commission
Robert Webster - MD Department of Natural Resources
Tom Wilcox - VA Department of Game and Inland Fisheries

Non-Tidal Habitat Workgroup – The workgroup works 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. It coordinates 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
Tom Barron - PA Department of Environmental Protection
Al Blott - National Marine Fisheries Service
R. Scott Carney - PA Fish and Boat Commission
Denise Clearwater - MD Department of the Environment
Christine Conn - MD Department of Natural Resources
Stuart Demanski - PA Department of Environmental Protection
Sheila Eyler - US Fish and Wildlife Service
Carla Fleming - MD Department of Natural Resources
Mike Fritz - US Environmental Protection Agency
Ellen Gilinsky - VA Department of Environmental Quality
William Goldsborough - Chesapeake Bay Foundation
Kirk J. Havens - VA Institute of Marine Science
Mike Hendricks - PA Fish and Boat Commission
Lee Hill - VA Department of Conservation and Recreation
Curtis Hutto - VA Department of Conservation and Recreation
Paul Kazyak - MD Department of Natural Resources
John Kennedy - VA Department of Environmental Quality
Ron Klauda - MD Department of Natural Resources
Peter May - DC Department of Health
Tamara McCandless - US Fish and Wildlife Service
Steve McInnich - VA Commonwealth University
John Nichols - National Marine Fisheries Service
Sarah Nicholas - American Rivers
David Norris - VA Department of Game and Inland Fisheries
Susan Olsen - National Marine Fisheries Service
Richard Quinn - US Fish and Wildife Service
Catherine Rappe - MD Department of Natural Resources
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
Alan Weaver - VA Department of Game and Inland Fisheries
Howard Weinberg - University of MD- Eastern Shore

LIVING RESOURCES SUBCOMMITTEE

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 - VA Dept of Conservation and Recreation
Marie Bundy - Academy of Natural Science 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 - Sarbanes Cooperative Oxford Laboratory
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
Tony Watkinson - VA Marine Resources Commission
Jim Wesson - VA Marine Resources Commission
Thomas Wittkamp - Langley Air Force Base
Wayne Young - MD Environmental Service

MODELING SUBCOMMITTEE

The Modeling Subcommittee ensures that appropriate and technically defensible modeling tools are available to the Chesapeake Bay Program. These models (1) assist in understanding of the important processes affecting the watershed and Bay water quality, (2) assist understanding of 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 give an overall simulation of the Chesapeake watershed, airshed and estuary. By quantifying the 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 the achievement of Bay Program goals. The subcommittee coordinates activities most frequently with the Nutrient Subcommittee, Living Resources Subcommittee, Monitoring Subcommittee and the Tributary Strategy Workgroup. Coordination with other Chesapeake Bay Program subcommittees is accomplished by having select members of these subcommittees and groups actively involved in modeling work. The Modeling Subcommittee is supported by teams, made up of recognized experts, who provide scientific and technical modeling advice to the subcommittee.

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Modeling Subcommittee Structure

Modeling Subcommittee
Benthic Processes Review Team
Hydrodynamic Model Review Team
Water Column Processes Review Team
Chesapeake Bay Model Expert Team

MODELING SUBCOMMITTEE

Modeling Subcommittee Membership

James R. Collier - Chair, DC Department of Health
Lowell Bahner - National Oceanic and Atmospheric Administration
Mark Bennett - US Geological Survey
Peter Bergstrom - US Fish and Wildlife Service
Mike Bowman - VA Department of Conservation and Recreation
Bill Brown - PA Department of Environmental Protection
Arthur Butt - VA Department of Environmental Quality
Robin Dennis - U.S.EPA-NOAA-ASMD
Lewis Linker - US Environmental Protection Agency
Charles A. Lunsford - VA Department of Conservation and Recreation
Robert Magnien - MD Department of Natural Resources
Ross Mandel - Interstate Commission on the Potomac River Basin
Timothy J. Murphy - Metropolitan Washington Council of Governments
Narendra Panday - MD Department of Environment
Kenn Pattison - PA Department of Environmental Protection
Jeff Raffensperger - US Geological Survey
Helen Stewart - MD Department of Natural Resources
Peter Tango - MD Department of Natural Resources
Harry Wang - VA Institute of Marine Science

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 - VA 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 tidal waters. Specifically, the team 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
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 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 review team 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 - Chesapeake Biological Laboratory
Thomas R Fisher - University of MD- Center for Environmental Science
Lawerence W. Harding, Jr. - University of MD- Center for Environmental Science
Michael Kemp - University of MD- Center for Environmental Science

MODELING SUBCOMMITTEE

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

MONITORING AND ANALYSIS SUBCOMMITTEE

The subcommittee coordinates efforts to monitor the Chesapeake Bay basin system, to manage and ensure continued accessibility of the resulting environmental data and promote multidisciplinary 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 among the agencies and institutions involved in the Chesapeake Bay Monitoring Program.

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Monitoring and Analysis Subcommittee Structure

Monitoring and Analysis Subcommittee
Analytical Methods and Quality Assurance Workgroup
Data Management and Acquisition Workgroup
Non-tidal Water Quality Workgroup
Tidal Monitoring and Analysis Workgroup

MONITORING AND ANALYSIS SUBCOMMITTEE

Monitoring and Analysis Subcommittee Membership

Carlton Haywood - Chair, Interstate Commission on the Potomac River Basin
Mike Bowman - VA Department of Conservation and Recreation
Claire Buchanan - Interstate Commission on the Potomac River Basin
Jerry Griswold - Natural Resources Conservation Service
Rick Hoffman - VA Department of Environmental Quality
Maggie Kerchner - National Oceanic and Atmospheric Administration
Lewis Linker - US Environmental Protection Agency
Charles A. Lunsford - VA Department of Conservation and Recreation
Russell Mader - Natural Resources Conservation Service
Robert Magnien - MD Department of Natural Resources
Paul Massicot - MD Department of Natural Resources
Beth McGee - US Fish and Wildlife Service
Bruce Michael - MD Department of Natural resources
Derek Orner - National Oceanic and Atmospheric Administration
Scott Phillips - US Geological Survey
Steve Preston - US Geological Survey
David Schmeltz - US Environmental Protection Agency
Richard Shertzer - PA Department of Environmental Protection
John Sherwell - MD Department of Natural Resources
Nicoline Shulterbrandt - DC Department of Health

MONITORING AND ANALYSIS SUBCOMMITTEE

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 the exchange of technical information focused on moving toward standardization of methods and the 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
Suzanne Doughten - Old Dominion University
Gary Du - VA Department of Environmental Quality
Adil 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
Kathryn Wood - Chesapeake Biological Laboratory
Carl Zimmermann - Chesapeake Biological Lab

MONITORING AND ANALYSIS SUBCOMMITTEE

Data Management and Acquisition Workgroup - The workgroup is to provide oversight for the management of data generated by the projects funded by the Monitoring and Analysis 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 and Analysis 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

MONITORING AND ANALYSIS SUBCOMMITTEE

Non-tidal Water Quality 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 non-tidal portion of the Chesapeake Bay watershed. Coordination is focused on design of a non-tidal water quality monitoring network which includes prioritizing monitoring stations; attempting to have compatible collection, analytical and data-management techniques between programs so data are comparable; and routinely communicating the results. Primary data analysis activities include routine updating of key water-quality trends; explaining the changes in occurrence and trends by relating the natural and man-influenced factors; and 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
Michael P. 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

MONITORING AND ANALYSIS SUBCOMMITTEE

Tidal Monitoring and Analysis 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.

Robert Magnien - Chair, MD Department of Natural Resources
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 Department 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
Rich Lacouture - Academy of Natural Science Estuarine Research Center
Jurate Landwehr - US Geological Survey
Mike Lane - Old Dominion University
Mike Langland - US Geological Survey
Mary Ellen Ley - US Geological Survey
Roberto Llanso - Versar, Inc.
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
William D Romano - MD Department of Natural Resources
Richard Shertzer - PA Department of Environmental Protection

NUTRIENT SUBCOMMITTEE

The subcommittee addresses issues related to the identification and control of nutrient and sediment pollution from point and nonpoint sources, including atmospheric deposition. The primary charge to the subcommittee is to coordinate nutrient and sediment reduction strategies among the basin jurisdictions and federal agencies to meet *Chesapeake 2000* agreement goals and objectives. This is achieved through technology transfer at meetings and focused special conferences and tours.

The subcommittee is responsible for cooperative design, coordination and assessment of point and nonpoint pollution control programs and practices; Tributary Strategy implementation and coordination, nutrient and sediment reduction progress tracking and issue resolution; reporting progress toward *Chesapeake 2000* nutrient and sediment reduction goals; and identification of needed nutrient- and sediment-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 and sediment 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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e-mail: mcorrozi@chesapeakebay.net
Workgroups: Agricultural Nutrient Reduction Workgroup, Trading and Offsets Workgroup, Urban Stormwater Workgroup, Potomac Strategy Shared Task Group.

Nutrient Subcommittee Structure

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

NUTRIENT SUBCOMMITTEE

Nutrient Subcommittee Membership

Thomas W. Simpson - Chair, University of Maryland
Steve Bieber - MD Department of the Environment
Terry Black - PA Department of Environmental Protection
Mike Bowman - VA Department of Conservation and Recreation
Collin Burrell - DC Department of Health
Sally Claggett - US Forest Service
Susan Claus - DC Department of Health
Scott Crafton - VA Chesapeake Bay Local Assistance Department
Jeffrey Halka - MD Geological Survey
John Kennedy - VA Department of Environmental Quality
Maggie Kerchner - National Oceanic and Atmospheric Administration
Mike Langland - US Geological Survey
Marya Levelev - MD Department of the Environment
Russell Mader - Natural Resources Conservation Service
Jim Mallow - MD DNR Forest Service (Retired)
John Murtha - PA Department of Environmental Protection
Kenn Pattison - PA Department of Environmental Protection
Steele Phillips - CAC Liaison
Royden Powell - MD Department of Agriculture
Fred Samadani - MD Department of Agriculture
Kelly Shenk - US Environmental Protection Agency
John Sherwell - MD Department of Natural Resources
Albert H. Todd - US Forest Service
Mark Waggoner - Natural Resources Conservation Service
Allison Wiedeman - US Environmental Protection Agency

NUTRIENT SUBCOMMITTEE

Agricultural Nutrient Reduction Workgroup - The workgroup serves as the mechanism for interjurisdictional coordination and evaluation of agricultural nutrient reduction measures by encouraging the participation of the agricultural community, local governments and the private sector to help restore the health and productivity of the Chesapeake Bay. Objectives include to:

- assist jurisdictions in developing or refining agricultural nutrient management programs that will maximize nutrient reductions while maintaining a sustainable agricultural base.
- evaluate alternatives and provide recommendations for animal management systems.
- 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.
- 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.
- identify nutrient-related research gaps and subsequent demonstration project opportunities for possible Bay Program funding.
- review and report on standards for soil and water quality conservation planning.

Fred Samadani - Chair, MD Department of Agriculture
Doug Goodlander - PA State Conservation Comission
Jerry Griswold - Natural Resources Conservation Service
Tom Juengst - PA Department of Environmental Protection
Maggie Kerchner - National Oceanic and Atmospheric Administration
Russ Perkinson - VA Department of Conservation and Recreation
Herb Reed - University of MD- Cooperative Extension
Randy Shank - VA Cooperative Extension/ VA Department of Conservation and Recreation
Ron Wood - VA Chesapeake Bay Local Assistance Department

NUTRIENT SUBCOMMITTEE

Forestry Workgroup - The Forestry Workgroup coordinates, develops and implements plans and projects that focus on the contributions of forest lands in restoring the health and productivity of the Chesapeake Bay watershed. 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:

- Communicate and educate about the value of trees, forests and forestry to the Chesapeake Bay ecosystem.
- Promote actions and demonstrate approaches for the establishment, retention and management of forests in urban, suburban and rural areas to improve water quality and living resource habitat.
- Develop strategies for coordinating, implementing and targeting forestry programs to assist in the accomplishment of Chesapeake Bay Program goals.
- Provide a forum for interstate coordination of policies, programs, technology, and the opportunity for collaborative efforts to address forest issues.
- Develop and promote forestry research and monitoring and ensure that forest resource information is available and usable to the partners of the Chesapeake Bay Program.

Jim Mallow - Chair, MD DNR Forest Service (Retired)
Tina Alban - PA Bureau of Forestry
Leon App - VA Department of Conservation and Recreation
Tom Bailey - US Forest Service
Sally Claggett - US Forest Service
Matthew Ehrhart - Chesapeake Bay Foundation
Scott English - US Army Environmental Center
Karen Fedor - American Forests
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
Michael Hollins - Ecosystem Recovery Institute
Brian Lecouteur - Metropolitan Washington Council of Governments
Brook Lenker - Alliance for the Chesapeake Bay
Jim McElfish - Environmental Law Institute
Allison McKechie - Potomac Watershed Partnership
Gene Odato - PA Bureau of Forestry
Bill Street - Chesapeake Bay Foundation
Jessica Strother - Fairfax County, Urban Forestry Department
Bob Tjaden - University of MD- College Park
Albert H. Todd - US Forest Service
Don VanHassent - MD Department of Natural Resources
Suzy Wald - DC Department of Health
Deborah G. Weller - MD Office of Planning
Melanie Wertz - PA Department of Environmental Protection
Douglas Wetmore - VA Chesapeake Bay Local Assistance Department
Casey Williams - Isaak Walton League

Point Source Workgroup - The Point Source Workgroup was created in 1995 to establish a formal means of communication 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. Its objectives are to:

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

Marya Levelev - Chair, MD Department of the Environment
Jerusalem Bekele - DC Department of Health
Bob Ehrhart - VA Department of Environmental Quality
John Murtha - PA Department of Environmental Protection
Bill Ruby - DC Department of Health
Tanya Spano - *Metropolitan Washington Council of Governments*
Allison Wiedeman - US Environmental Protection Agency
Ning Zhou - VA Tech

NUTRIENT SUBCOMMITTEE

Sediment Workgroup - The Sediment Workgroup coordinates efforts among the states and Bay Program to meet *Chesapeake 2000* sediment goals. Objectives are to:

- Compile and interpret sediment science as it relates to the watershed and the Bay.
- Evaluate the relative contribution of sediment by source to water clarity degradation.
- Compile and evaluate information on BMP efficiencies relative to sediment reduction.
- Assist with the allocation of loads by source and identification of the sources in the Watershed Model by tributary.
- Provide technical assistance in helping states establish new tributary strategies to meet allocation goals.
- Provide assistance to the jurisdictions in evaluating and refining tributary strategies.

Jeffrey Halka - Co-Chair, MD Geological Survey
Mike Langland - Co-Chair, US Geological Survey
Karl Berger - Metropolitan Washington Council of Governments
Mike Bowman - VA Department of Conservation and Recreation
Owen Bricker - US Geological Survey
Grace S. Brush - Johns Hopkins University
Collin Burrell - DC Department of Health
Thomas Cronin - US Geological Survey
Robert E. Edwards - Susquehanna River Basin Commission
Allen Gellis - US Geological Survey
Normand Goulet - Northern VA Regional Commission
Jerry Griswold - Natural Resources Conservation Service
Amy Guise - US Army Corps of Engineers
Julie Herman - VA Institute of Marine Science
Lee Hill - VA Department of Conservation and Recreation
Timothy Karikari - Environmental Health Administration Watershed Protection Division
Abdi Musse - DC Department of Health
Kenn Pattison - PA Department of Environmental Protection
Frank Payer - PA Department of Environmental Protection
Scott Phillips - US Geological Survey
Kelly Shenk - US Environmental Protection Agency
Gary Shenk - US Environmental Protection Agency
Sean Smith - MD Department of Natural Resources
Steve Stewart - Baltimore County Dept. of Environmental Protection and Resource Management
Debra Willard - US Geological Survey

Trading and Offsets Workgroup - The workgroup was formed in 1999 as part of a Bay Program effort to address 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 partners on the results of the investigations.

Waldon 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 - Washington Suburban Sanitary Commission
John Kennedy - VA Department of Environmental Quality
Marya Levelev - MD Department of the Environment
Russell Mader - Natural Resources Conservation Service
John Murtha - PA Department of Environmental Protection
Len Shabman - VA Tech
Thomas W. Simpson - University of Maryland
Tanya Spano - Metropolitan Washington Council of Governments
Stuart D. Wilson - VA Department of Conservation and Recreation

NUTRIENT SUBCOMMITTEE

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:

- Provide a forum for communication and technology exchange among jurisdictions on issues related to tributary strategies, BMPs, Watershed Model development and innovative technologies.
- Coordinate tributary strategy implementation.
- Provide technical review and recommendations to the Nutrient Subcommittee and Modeling Subcommittee on Watershed Model processes and input data.
- Provide support and technical expertise to other subcommittees, the Water Quality Technical Workgroup and the Water Quality Steering Committee, as requested.
- Provide review and technical evaluation of revised tributary strategies, Watershed Model scenarios and implementation progress.
- Evaluate and recommend new or improved BMPs for consideration in revised tributary strategies.

Mike Bowman - Chair, VA Department of Conservation and Recreation
Mark Bennett - US Geological Survey
Karl Berger - Metropolitan Washington Council of Governments
Sheila Besse - DC Department of Health
Katherine Bunting-Howarth - DE Department of Natural Resources and Environmental Control
Kevin Coyne - MD Department of Natural Resources
Donald Fiesta - PA Department of Environmental Protection
Normand Goulet - Northern VA Regional Commission
Michael Herrmann - MD Department of Natural Resources
Maggie Kerchner - National Oceanic and Atmospheric Administration
Lewis Linker - US Environmental Protection Agency
Russell Mader - Natural Resources Conservation Service
Timothy J. Murphy - Metropolitan Washington Council of Governments
Kenn Pattison - PA Department of Environmental Protection
Diana Reynolds - MD Department of Natural Resources
Gary Shenk - US Environmental Protection Agency
Kelly Shenk - US Environmental Protection Agency
Thomas W. Simpson - University of MD
Helen Stewart - MD Department of Natural Resources
Jeffrey Sweeney - University of MD

Urban Storm Water Workgroup – A joint workgroup under the Nutrient and Toxics Subcommittees, the workgroup addresses storm water management to control nutrient, sediment and chemical contaminant runoff. Given the trends and projections regarding urban and suburban growth and the increase of imperviousness in the watershed, managing storm water runoff is an important activity for reducing pollutant loads to the Bay, maintaining the cap on nutrients, and sustaining our progress in restoring the Bay. The workgroup works with federal, state and local representatives in preventing storm water problems in the face of increased growth and development and remediating storm water problems on lands that have already been developed. The group focuses on the storm water related commitments in *Chesapeake 2000*, *Toxics 2000 Strategy* and the Executive Council Directive on *Managing Storm Water on State, Federal and District-Owned Lands and Facilities*.

Marc Aveni - Co-Chair, VA Cooperative Extension, VA Tech.
Scott Crafton - Co-Chair, VA Chesapeake Bay Local Assistance Department
Meg Andrews - MD Department of Transportation
Susan Asmus - National Association of Homebuilders
Joseph Battiata - VA Department of Transportation
David Beale - VA Department of Conservation and Recreation
Doug W. Beisch - VA Chesapeake Bay Local Assistance Department
Stacey Sloan Blersch - DC Department of Health
Ronald Bowen - Anne Arundel County Department of Public Works
Walter Caldwell - DC Department of Health
John Carlock - Hampton Roads Planning District Commission
Kim Coble - Chesapeake Bay Foundation
Larry Coffman - Prince George's County
Larry Gavan - VA Department of Conservation and Recreation
Normand Goulet - Northern VA Regional Commission
Lisa Grippo - US Navy
Timothy Karikari - DC Department of Health
Durla Lathia - PA Department of Environmental Protection
Menchu Martinez - US Environmental Protection Agency
Kenneth Murin - PA Department of Environmental Protection
Joseph Necker - The Rouse Company
Dan O'Leary - Center for Watershed Protection
Ratilal B. Patel - PA Department of Environmental Protection
Ken Pensyl - MD Department of the Environment
Brian Rustia - Metropolitan Washington Council of Governments
Kelly Shenk - US Environmental Protection Agency
Bill Stack - Baltimore City
Steve Stewart - Baltimore County
Raja Veeramachaneni - *MD State Highway Administration*
Jim Woodworth - Natural Resources Defense Council

TOXICS SUBCOMMITTEE

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 to 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 Chesapeake Bay basin.

The Toxics Subcommittee oversees and coordinates the activities of the Fish Advisory Workgroup, Point Source Workgroup, Pesticide Workgroup, Pollution Prevention Workgroup, Toxics Characterization Workgroup and shares oversight for the Urban Stormwater Workgroup with the Nutrient Subcommittee. Periodically *ad hoc* committees are formed to tackle specific tasks for the Toxics Subcommittee or workgroups.

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e-mail: cheeks.keshia@epa.gov

Toxics Subcommittee Structure

Toxics Subcommittee
Fish Advisory Workgroup
Pesticide Workgroup
Point Source Workgroup
Pollution Prevention Workgroup
Toxics Characterization Workgroup
Urban Storm-water Workgroup (Joint with Nutrient Subcommittee)

Toxics Subcommittee Membership

Richard Eskin - Chair, MD Department of the Environment
Ray Arnold - Copper Development Association, Inc.
Dave Bailey - Mirant
Tom Barron - PA Department of Environmental Protection
Joseph Beaman - MD Department of the Environment
Kim Coble - Chesapeake Bay Foundation
Robert Dunn - Dupont
Kathryn Gallagher - US Environmental Protection Agency
Jerry Griswold - Natural Resources Conservation Service
Michelle Harmon - National Oceanic and Atmospheric Administration
Al Jordan - W.R. Grace and Company
Maggie Kerchner - National Oceanic and Atmospheric Administration
Anita Key - DC Department of Health
Jonathan Kramer - MD Sea Grant College Program
Laura McConnell - USDA, Agricultural Research Service
Beth McGee - US Fish and Wildlife Service
Cherie Miller - US Geological Survey
Timothy J. Murphy - Metropolitan Washington Council of Governments
Jonathan Phinney - American Society of Limnology and Oceanography
Jim Pletl - Hampton Roads Sanitation District
Mark Richards - VA Department of Environmental Quality
Mory Roberts - VA Institute of Marine Science
Cherie Schultz - Interstate Commission on the Potomac River Basin
Mary Ellen Setting - MD Department of Agriculture
Kelly Shenk - US Environmental Protection Agency
John Sherwell - MD Department of Natural Resources
Bob Steidel - Hopewell Regional Wastewater Facility
David Velinsky - Academy of Natural Science Estuarine Research Center
Allison Wiedeman - US Environmental Protection Agency
Mary Lynn Wilhere - Alliance for the Chesapeake Bay

TOXICS SUBCOMMITTEE

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 Shenk - Chair, US Environmental Protection Agency
Alex Barron - VA Department of Environmental Quality
Joseph Beaman - MD Department of the Environment
Kim Coble - Chesapeake Bay Foundation
James R. Collier - DC Department of Health
Jeff Corbin - Chesapeake Bay Foundation
Bob Frey - PA Department of Environmental Protection
Marty Gary - MD Department of Natural Resources
Jean W Gregory - VA Department of Environmental Quality
Stewart Harris - Chesapeake Bay Foundation
Charles Kanetsky - US Environmental Protection Agency
Arthur Laroche - VA Department of Game and Inland Fisheries
Ira Palmer - DC Department of Health
Fred Pinkney - US Fish and Wildlife Service
Nicoline Shulterbrandt - DC Department of Health
Khizar Wasti - VA Department of Health

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; and promoting transfers of information and innovative pest management approaches among jurisdictions. The workgroup is transitioning its focus from integrated pest management to pesticide loads and impacts to address commitments in the *Toxics 2000 Strategy*. Membership will be refined to reflect this change.

Marc Aveni - Co-Chair, VA Cooperative Extension, VA Tech.
Randy Shank - Co-Chair, VA Cooperative Extension/ VA DCR
David Bingaman - PA Department of Agriculture
Amy Brown - University of MD
Susan Debolt - Virginia Cooperative Extension
Fatima El Abdaoui - US Environmental Protection Agency
Kathryn Gallagher - US Environmental Protection Agency
Lynn Garling - PA Integrated Pest Management Program
Ames Herbert - VA Cooperative Extension
Marvin Lawson - VA Dept of Agriculture and Consumer Affairs
Betty Marose - University of MD
Edward Rajotte - Penn State University
Michael Raupp - University of MD
Sandra Sandanelli - University of MD
Mary Ellen Setting - MD Department of Agriculture
Paula Shrewsbury - University of MD

Point Source Workgroup - The workgroup is responsible for conducting the data analysis and implementation of the point source commitments in the *Toxics 2000 Strategy*. The workgroup coordinates activities to integrate pollution prevention into industries, federal facilities and wastewater treatment plants. They also acquire point source data in order to assess chemical contaminant loads and encourage voluntary reductions. The workgroup also shares responsibility with the Pollution Prevention Workgroup to implement the voluntary Mixing Zone Phaseout Strategy and implementing the chemical reductions commitments in the *Toxics 2000 Strategy*.

Bob Steidel - Chair, Hopewell Regional Wastewater Facility
Dave Bailey - Mirant
L. Evans Drake - Honeywell
John Handzo - VA Department of Environmental Quality
James G. Houstoun - Borough of Catasauqua, PA
George Kennedy - Hampton Roads Sanitation District, VA
John Murtha - PA Department of Environmental Protection
Mark Richards - VA Department of Environmental Quality
Abha Sharma - Chesterfield County, VA
Steve Shofar - Washington Suburban Sanitation Commission
Ed Stone - MD Department of the Environment
Allison Wiedeman - US Environmental Protection Agency
Mary Lynn Wilhere - Alliance for the Chesapeake Bay
Ning Zhou - VA Tech

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. The workgroup also shares responsibility with the Point Source Workgroup to implement the voluntary Mixing Zone Phaseout Strategy and implementing the chemical reduction commitments in the *Toxics 2000 Strategy*.

Robert Dunn - Chair, DuPont
Laura Armstrong - MD Department of the Environment
Jo Asher - Watercolor Lavender Farm
Sharon K. Baxter - VA Department of Environmental Quality
Benji Brachman - VA Department of Environmental Quality
Jeffrey Burke - 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
Joan LeLacheur - Washington Metropolitan Area Transit Authority
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
Mary Lynn Wilhere - Alliance for the Chesapeake Bay

TOXICS SUBCOMMITTEE

Toxics Characterization Workgroup - The workgroup is responsible for updating the *1999 Toxics Characterization,* which reports on 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 for the Toxics Subcommittee and Monitoring and Assessment Subcommittee.

Kathryn Gallagher - Chair, US Environmental Protection Agency
Joel E Baker - University of MD
Joseph Beaman - MD Department of the Environment
Daniel J Fisher - University of MD-Wye Research and Education Center
Robert Hoke - E.I. DuPont DeNemours & Co.
Jules Loos - Mirant Mid-Atlantic
Beth McGee - US Fish and Wildlife Service
Jim Pletl - Hampton Roads Sanitation District, VA
Mark Richards - VA Department of Environmental Quality
Thomas Robertson - E.I. DuPont DeNemours & Co.
David Velinsky - Academy of Natural Science Estuarine Research Center

Urban Storm Water Workgroup - Joint Toxics and Nutrient workgroup formed in 2001. See page 51.

CITIZENS ADVISORY COMMITTEE

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.

Staff Contact

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CITIZENS ADVISORY COMMITTEE

Citizens Advisory Committee Membership

Jack J. Whitney, Jr. - Chair, VA Beach Department of Agriculture
Roy A. Hoagland - Vice-Chair, Chesapeake Bay Foundation
Gary H. Baise - Baise, Miller & Freer
Carl Cole - Management Consultant
James W. Cox - Resource Conservation, Inc.
Jim Elliott - Hunton & Williams
Kurt Gregory Erickson - Washington Regional Alcohol Program
C Victor Funk - PA Department of Environmental Protection (Retired)
J. Andrew Hadley - Proctor & Gamble
Lawrence R. Herman - Legal Consultant
Ted Jackson - Loudon County Sanitation Authority (Retired)
Mark Kalish - MD Builders Association
Martha G. Kavanaugh - MD Circuit Court (Retired)
Patricia Levin - Adjunct Professor, Franklin and Marshall College
Andrew Loftus - Natural Resources Consultant
William Martin, Jr. - US Patent Office (Retired)
Kay McElvey - Harriet Tubman Organization
Robert Mumma - Businessman
Jack Nelson - US Department of Agriculture
Steele Phillips - Farmer (Retired)
Timothy Pula - Struever Bros., Eccles & Rouse
Betsy J. Quant - Canoe Susquehanna
Lina Vlavianos - Severn River Commission
Al Wenger - Agriculture Policy Consultant
John McNeil Wilkie - Tatum CFO

CAC Young Delegates

Olivia Campbell - Gettysburg College
Shannon Meseck - Old Dominion University
Stephanie Quaranta - American University
Jessica Spencer - Dickinson College

LOCAL GOVERNMENT ADVISORY COMMITTEE

The Local Government Advisory Committee (LGAC) was created by the Chesapeake Executive Council through the *1987 Chesapeake Bay Agreement* and is made up of representatives from Maryland, Pennsylvania, Virginia and the District of Columbia that are appointed by their respective governor or the mayor.

The purpose of the LGAC is to assume both a proactive and reactive policy development role in advising the Executive Council on how most effectively, equitably and expeditiously to implement the projects and other actions required to engage the support of the local governments to achieve the goals of *Chesapeake 2000*.

The LGAC is responsible for communicating both with the Executive Council in its advisory capacity and with local governments throughout the Bay region. The LGAC's goal is to develop and execute a strategy to ensure continued local government participation and input in the design, development and implementation of programs to protect and improve the Chesapeake Bay.

Staff Contacts

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fax: 202-962-3500
e-mail: mtooke@icma.org

LOCAL GOVERNMENT ADVISORY COMMITTEE

Local Government Advisory Committee

- Executive Subcommittee
  Chair, Ronald Fithian
  VA Vice-Chair, **Harvey Hinson**
  MD Vice-Chair, **Ellen Moyer**
  PA Vice-Chair, **James Wheeler**
  DC Vice-Chair, **Ted Prochter**

Local Government Advisory Committee Membership

Members
The LGAC membership represents a cross-section of local governments from Maryland, Pennsylvania, Virginia and the District of Columbia. Each of the states may appoint up to six members, and the District may appoint three members to serve on the committee.

The current LGAC members are:

Maryland
Ronald Fithian- Kent County Commissioner
Lois Garey- Baltimore City Council member
Raymond L. Langston- Mayor of Highland Beach
Ellen Moyer- Mayor of Annapolis
J. Harry Norris III- Mayor of Leonardtown – Alternate: Laschelle Miller
James Purnell, Jr.- Worcester County Commissioner

Virginia
Robert J. Barlow- Attorney (Vice Chair VA)
Joe Maroon- Director, VA Dept. of Conservation and Recreation – Alternate: Moira Croghan
Harvey L. Hinson- Deputy County Manager, Henrico County
Patricia S. O'Bannon- Board of Supervisors, Henrico County (LGAC Chair)
Daniel F. Rinzel- Esquire

Pennsylvania
Robert C. Gerhard, Jr.- Commissioner, Cheltenham Township
James Wheeler- PSATS
John Garner- Executive Director, PA League of Cities and Municipalities
Russell Pettyjohn- Mayor of Lititz Borough
Harry Stokes- Commissioner of Adams County

District of Columbia
Theodore J. Gordon- DC Department of Health
Ted Prochter- Department of Parks and Recreation
William Rumsey, Jr.- Council of the District of Columbia – Alternate: Sheila Besse

SCIENTIFIC AND TECHNICAL ADVISORY COMMITTEE

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 technical conferences and workshops; technical reports and position papers; assistance in organizing merit reviews of Chesapeake Bay Program subcommittee activities; and service by STAC members on subcommittees and workgroups. STAC serves as a liaison between the scientific and engineering community and the Bay Program. Through professional and academic contacts and organizational networks of its members, STAC ensures close cooperation among the various research institutions and management agencies represented in the Bay watershed. The Chesapeake Research Consortium, Inc. provides staff and logistical support.

STAC members and alternate members provide independent scientific and technical guidance and act as liaisons between home institutions or 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 their ability to represent their institutions.

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Scientific and Technical Advisory Committee (STAC) Structure

Scientific and Technical Advisory Committee
STAC Members
STAC Alternate Members
STAC Executive Board
STAC Workgroups

SCIENTIFIC AND TECHNICAL ADVISORY COMMITTEE

Scientific and Technical Advisory Committee Membership

Waldon 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
Denise Breitburg - Academy of Natural Science Estuarine Research Center
Eugene Burreson - VA Institute of Marine Science
Ray Cheng - ECI Systems and Engineering
Edward Graham - Metropolitan Washington Council of Governments
Thomas Grizzard - Occoquan Watershed Monitoring Laboratory
Carl Hershner - VA Institute of Marine Science
Edward Houde - University of MD- Center for Environmental Science
Cynthia M. Jones - Old Dominion University
John Keene - University of PA
Michael Kemp - University of MD- Center for Environmental Science
Ronald Korcak - USDA Agricultural Research Service
Les E. Lanyon - Penn State University
Douglas Lipton - University of Maryland- College Park
James Lynch - Penn State University
Gary Matlock - National Oceanic and Atmospheric Administration
Jack McGee - VA Department of Transportation
Saied Mostaghimi - VA Tech
Scott Phillips - US Geological Survey
Jonathan Phinney - American Society of Limnology and Oceanography
Clifford W Randall - VA Tech
Bill Rickards - VA Graduate Marine Science Consortium
Greg Ruiz - Smithsonian Environmental Research Center
Larry Sanford - University of MD- Center for Environmental Science
Kevin Sellner - Chesapeake Research Consortium
Richard Weismiller - University of MD
Victor Wenk - TWG

Scientific and Technical Advisory Committee Alternates

Nelson Adcock - GeoEnvironmental Resources Inc.
Lowell Bahner- National Oceanic and Atmospheric Administration
Gary Felton - University of MD, Department of Biological Resource Engineering
Bruce Hicks - National Oceanic and Atmospheric Administration
Roger Newell - University of MD- Center for Environmental Science
Catherine O' Riordan - American Geophysical Union
Andrew Sharpley - USDA Agricultural Research Service

SCIENTIFIC AND TECHNICAL ADVISORY COMMITTEE

Advisory Committee Executive Board

The STAC Executive Board consists of the chair, vice-chair, executive officer 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.

Waldon R. Kerns - Chair, VA Tech
Jonathan Kramer - Vice-Chair, MD Sea Grant College Program
Kevin Sellner - Executive Officer, Chesapeake Research Consortium
Denise Breitburg - Academy of Natural Science Estuarine Research Center
Les Lanyon - Penn State University
Jonathan Phinney - American Society of Limnology and Oceanography
Clifford W Randall - VA Tech

Scientific and Technical Advisory Committee Workgroups

STAC workgroups are composed of current STAC members but may include members drawn from the region's scientific and technical community. Each workgroup has a chair selected from the STAC membership by workgroup members. Workgroups present their findings to STAC for endorsement and communication to the Chesapeake Bay Program.

Living Resources

The mission of the Living Resources Workgroup is to provide proactive scientific advice on relevant issues listed in *Chesapeake 2000* agreement, such as protection and restoration of living resources and vital habitat.

Jonathan Kramer - Chair, MD Sea Grant College Program
Denise Breitburg - Academy of Natural Science Estuarine Research Center
Eugene Burreson - VA Institute of Marine Science
Carl Hershner - VA Institute of Marine Science
Edward Houde - University of MD- Center for Environmental Science
Michael Kemp - University of MD Center for Environmental Science
Douglas Lipton - University of Maryland- College Park
Bill Rickards - VA Graduate Marine Science Consortium

SCIENTIFIC AND TECHNICAL ADVISORY COMMITTEE

Advancing Technology

The mission of the Advancing Technology Workgroup is to identify and assess new technologies and scientific advancements and to assist in implementing them to address and fulfill the *Chesapeake 2000* agreement goals.

Clifford W Randall - Chair, VA Tech
L. Joseph Bachman - US Environmental Protection Agency
Ronald Korcak - USDA Agricultural Research Service
Lewis Linker - US Environmental Protection Agency
Catherine O' Riordan - American Geophysical Union
Jonathan Phinney - American Society of Limnology and Oceanography
Kevin Sellner - Chesapeake Research Consortium

Sustainable Development and Landscape Management

The STAC workgroup on Sustainable Development and Landscape Management will apply the principles and knowledge of science and technology to facilitate informed, ecosystem-based decisions regarding management of land-based resources within the Chesapeake Bay watershed.

Ted Graham - Chair, Metropolitan Washington Council of Governments
Thomas Grizzard - Occoquan Watershed Monitoring Laboratory
John Keene - University of PA
Waldon R. Kerns - VA Tech
Jack McGee - VA Department of Transportation
Richard Weismiller - University of MD

Water Quality - Protection and Restoration

The Water Quality Workgroup will focus on two priority issues. The first is the improvement of monitoring and sampling programs to obtain estimates of the uncertainties and variance in the basic data for water quality measurements. The second issue involves the selection of improved statistical procedures to obtain improved estimates and projections of future objectives using water quality data of known variability and uncertainty.

Mary Beth Adams - Chair, US Forest Service
Donald Boesch - University of MD- Center for Environmental Science
Bruce Hicks - National Oceanic and Atmospheric Administration
Les E. Lanyon - Penn State University
James Lynch - Penn State University
Saied Mostaghimi - VA Tech
Scott Phillips - US Geological Survey
Lawrence Sanford - University of MD- Center for Environmental Science

FEDERAL AGENCIES COMMITTEE

The Federal Agencies Committee was established by the Chesapeake Bay Program in 1984 and is chaired by the Director of the EPA's Chesapeake Bay Program Office. The committee 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, 15 federal agencies have formal agreements with the 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 committee. There are 21 federal agencies currently represented on the Federal Agencies Committee. The committee has two slots reserved for its members to serve on the Budget Steering Committee for two-year terms.

The Federal Agencies Committee is responsible for representing federal policies in the Chesapeake Bay Program. The committee advises the EPA, which represents all federal agencies as the sole federal signatory to the Chesapeake Bay agreements, and is the only federal member of the Chesapeake Executive Council. The committee also advises the Implementation Committee and its subcommittees and workgroups on federal opportunities and viewpoints. The Federal Agencies Committee initiated the 1994 *Agreement of Federal Agencies on Ecosystem Management in the Chesapeake Bay*, which was signed by high level officials from 25 federal agencies and departments. 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 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. *FACEUP* is the workplan for the Federal Agencies Committee.

Staff Contact

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Chesapeake Bay Program Office
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e-mail: shewack.bob@epa.gov

FEDERAL AGENCIES COMMITTEE

Federal Agencies Committee Membership

Rebecca Hanmer - Chair, US Environmental Protection Agency
William Arguto - US Environmental Protection Agency
Lowell Bahner - National Oceanic and Atmospheric Administration
Jareene Barkdoll - Federal Highway Administration
Roger Barlow - US Geological Survey
Bob Campbell - National Park Service
Zante Capuno - US Coast Guard
Sally Claggett - US Forest Service
Harold Coulombe - US Geological Survey
Kelly Dreyer - US Marine Corps
Thomas Elias - US National Aboretum, Agricultural Research Service
Martin Elliott - US Army
Brian Feeney - Horne Engineering Services, Inc.
Janmichael Graine - US Army Environmental Center
David Greene - US Geological Survey
Jennifer Greiner - US Fish and Wildlife Service
Jerry Griswold - Natural Resources Conservation Service
Kelly Holland - General Services Administration
Marian Huber - National Park Service
Maggie Kerchner - National Oceanic and Atmospheric Administration
Patsy Kerr - US Air Force
Thomas Long - Farm Service Agency
Don Maglienti - Horne Engineering Services, Inc.
Glenn Markwith - Commander, Navy Region Mid-Atlantic
Sharon Marsh - US Postal Service
William Martin, Jr. - US Patent Office (Retired)
Peter J. Marx - US Environmental Protection Agency
Helene Merkel - Horne Engineering Services, Inc.
Reggie Parrish - US Environmental Protection Agency
Nelson Powers - Defense Logistics Agency
Steven Richard - General Services Administration
Odean Serrano - National Aeronautics and Space Administration
Phil Shaw - Americorps National Civilian Community Corps
Bob Shewack - US Environmental Protection Agency
Britt Slattery - US Fish and Wildlife Service
Albert H. Todd - US Forest Service
Michael Turner - US Air Force
Stacey Underwood - US Army Corps of Engineers

CHESAPEAKE BAY GATEWAYS NETWORK WORKGROUP

The Gateways Network Workgroup, 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 over 100 parks, wildlife refuges, historic communities, maritime museums, water trails and more. These linked gateways allow people more easily to explore, understand and help conserve the Bay and its related resources.

David Bancroft - Alliance for the Chesapeake Bay
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 Epstein - Chesapeake Bay Foundation
Tom Ford - PA Fish and 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
Robert Pickett - VA Department of Transportation
Sylvia Ramsey - MD Department of Transportation
Marci Wolf Ross - MD Office of Tourism Development
Pat Stuntz - Chesapeake Bay Commission
Maria Vonderheid - US Fish and Wildlife Service
Ron Weis - PA Fish and Boat Commission
Paige Weiss - VA Department of Historic Resources
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 implementing the Water Quality Protection and Restoration section of the *Chesapeake 2000* agreement. The Steering Committee has representatives of the three "Headwaters States" - Delaware, New York and West Virginia - as equal partners with the other states, the District and the EPA. The ultimate goal of the Steering Committee is to correct the nutrient and sediment-related problems in the Chesapeake Bay and its tidal tributaries in order to remove them from the federal list of impaired waters by 2010. The Water Quality Steering Committee will:

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

Jon Capacasa - Co-Chair, US Environmental Protection Agency
Rebecca Hanmer - Co-Chair, US Environmental Protection Agency
Jerusalem Bekele - DC Department of Health
Bill Brannon - WV Department of Environmental Protection
Ed Brezina - PA Department of Environmental Protection
James R. Collier - DC Department of Health
Phillip M. DeGaetano - NY Department of Environmental Conservation
Mario DelVicario - US Environmental Protection Agency Region II
Kevin Donnelly - DE Department of Natural Resources and Environmental Control
Diana Esher - US Environmental Protection Agency
Jack E. Frye - VA Department of Conservation and Recreation
Stuart Gansell - PA Department of Environmental Protection
Carlton Haywood - Interstate Commission on the Potomac River Basin
David W Heicher - Susquehanna River Basin Commission
Felix Locicero - US Environmental Protection Agency Region II
Robert Magnien - MD Department of Natural Resources
Alan Pollock - VA Department of Environmental Quality
Robert Summers - MD Department of the Environment
Ann Swanson - Chesapeake Bay Commission
Lance Tabor - WV Soil Conservation Agency
Robert Yowell - PA Department of Environmental Protection
Bob Zimmerman - DE Department of Natural Resources and Environmental Control

WATER QUALITY TECHNICAL WORKGROUP

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 of 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
Mike Bowman - VA Department of Conservation and Recreation
Bill Brannon - WV Department of Environmental Protection
Bill Brown - PA Department of Environmental Protection
Claire Buchanan - Interstate Commission on the Potomac River Basin
Arthur Butt - VA Department of Environmental Quality
James R. Collier - DC Department of Health
Richard Draper - NY State Department of Environmental Conservation
Richard Eskin - MD Department of the Environment
David Flemer - US Environmental Protection Agency
Thomas Gardner - US Environmental Protection Agency
Maggie Kerchner - National Oceanic and Atmospheric Administration
Bob Koroncai - US Environmental Protection Agency
Norman E. Leblanc - Hampton Roads Sanitation District
Charles A. Lunsford - VA Department of Conservation and Recreation
Robert Magnien - MD Department of Natural Resources
Lee McDonnell - PA Department of Environmental Protection
Dave Montali - WV Department of Environmental Protection
Scott Phillips - US Geological Survey
John Schneider - DE Department of Natural Resources and Environmental Control
Thomas W. Simpson - University of MD
Tanya Spano - Metropolitan Washington Council of Governments
Lyle Varnell - VA Institute of Marine Science
Allison Wiedeman - US Environmental Protection Agency
Carol Young - PA Department of Environmental Protection

FISHERIES STEERING COMMITTEE

The mission of the Fisheries Steering Committee is to assist in coordinating management and research activities, investigating ecosystem-based fisheries management and conserving the shared Chesapeake Bay and coastal fishery resources. With the recognition that fish do not adhere to political boundaries, the Bay jurisdictions have found that their mutual interest in sustaining healthy Chesapeake Bay and coastal fishery resources is best achieved by working together cooperatively, in collaboration with the various Chesapeake Bay Program partners. This approach will permit the states to fulfill their respective fisheries management responsibilities within the Bay in a more cost effective and responsive fashion.

The Fisheries Steering Committee was established in 2001 to guide several fisheries related workgroups and activities with the vision of ecosystem-based fisheries management that encourages sustainable Chesapeake Bay fish populations that supports viable recreational and commercial fisheries and provides for natural ecosystem function.

The Committee guides the activities of the following groups:

- Chesapeake Bay Stock Assessment Committee – conducts analyses on the population status of various Chesapeake Bay fishery resources (i.e., blue crab and oyster);
- Fishery Ecosystem Plan (FEP) Technical Advisory Panel – developing a Chesapeake Bay FEP to assist in gradually implementing ecosystem-based fisheries management;
- Ecosystem Modeling Advisory Panel – designing an operational ecosystem model for exploring policy options for ecosystem-based fisheries management (i.e., Ecopath with Ecosim); and
- Fisheries Management Planning and Coordination Workgroup – (joint with the Living Resources Subcommittee) ensures that fishery considerations (both Chesapeake Bay and coastal) are integrated into all appropriate Chesapeake Bay Program activities. This workgroup responds to the Living Resources Subcommittee but receives guidance from the Fisheries Steering Committee.

Staff Contact

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FISHERIES STEERING COMMITTEE

Fisheries Steering Committee Structure

Fisheries Steering Committee
Chesapeake Bay Stock Assessment Committee
Chesapeake Bay Fisheries Ecosystem Plan (FEP) Technical Advisory Panel
Ecosystem Modeling Advisory Panel
Fisheries Management Planning and Coordination Workgroup (joint Living Resources Subcommittee)

Fisheries Steering Committee Membership

Derek Orner - Chair, National Oceanic and Atmospheric Administration
Bob Beal - Atlantic States Marine Fisheries Commission
A.C. Carpenter - Potomac River Fisheries Commission
Frank Dawson - MD Department of Natural Resources
John Galvez - US Fish and Wildlife Service
Rick Hoopes - PA Fish and Boat Commission
Edward Houde - University of MD- Center for Environmental Science
Ira Palmer - DC Department of Health
Eric Schwaab - MD Department of Natural Resources
Jack Travelstead - VA Marine Resources Commission

Chesapeake Bay Stock Assessment Committee - Cooperatively assess fisheries resources in the Chesapeake Bay in order to improve regional information required for baywide stock assessments.

Phil Jones - Chair, MD Department of Natural Resources
Chris Bonzek - VA Institute of Marine Science
John Hoenig - VA Institute of Marine Science
Tom Miller - University of MD- Center for Environmental Science
Rob O' Reilly - VA Marine Resources Commission
Derek Orner - National Oceanic and Atmospheric Administration
Alexi Sharov - MD Department of Natural Resources
Mark Terceiro - National Marine Fisheries Service
Douglas Vaughan - National Oceanic and Atmospheric Administration

FISHERIES STEERING COMMITTEE

Chesapeake Bay Fisheries Ecosystem Plan (FEP) Technical Advisory Panel (NOAA lead). The panel is charged with developing an FEP for the Chesapeake Bay; guiding the gradual implementation of ecosystem-based management of Bay fisheries; and overseeing the continual development of the FEP as knowledge of the Bay ecosystem increases and management needs change.

Margaret McBride - Co-Chair, National Oceanic and Atmospheric Administration
Edward Houde - Co-Chair, University of MD- Center for Environmental Science
Herb Austin - VA Institute of Marine Science
Vicki Blazer - US Geological Survey
Chris Bonzek - VA Institute of Marine Science
Denise Breitburg - Academy of Natural Science Estuarine Research Center
Mary Christman - University of MD
Ratana Chuenpagdee - VA Institute of Marine Sceince
Steve Jordan - Sarbanes Cooperative Oxford Laboratory
Jim Kirkley - VA Institute of Marine Science
Lisa Kline - Atlantic States Marine Fisheries Commission
Jonathan Kramer - MD Sea Grant College Program
Rom Lipcius - VA Institute of Marine Science
Tom Miller - University of MD- Center for Environmental Science
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 - University of MD- Center for Environmental Science

Ecosystem Modeling Advisory Panel - Tasked with designing an operational model that will be used and improved by the Bay community as a tool for deriving and exploring policy options for ecosystem-based fisheries management.

Kevin Sellner - Chair, Chesapeake Research Consortium
Lowell Bahner - National Oceanic and Atmospheric Administration
Denise Breitburg - Academy of Natural Science Estuarine Research Center
Arthur Butt - VA Department of Environmental Quality
Rob Latour - VA Institute of Marine Science
Tom Miller - University of MD- Center for Environmental Science
Steve Murawski - National Marine Fisheries Service
Rob O'Reilly - VA Marine Resources Commission
Derek Orner - National Oceanic and Atmospheric Administration
Linda Schaffner - VA Institute of Marine Science
Harley Speir - MD Department of Natural Resources
Bob Wood - University of MD- Center for Environmental Science

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.

Staff Contacts

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Pat Stuntz, Maryland Director
Patsy Cress, Administrative Assistant

Pennsylvania Office: voice: 717-232-1103 • fax: 232-1104
Thomas W. Beauduy, Pennsylvania Director

Virginia Office: voice: 804-786-4849 • fax: 371-0659
Russell W. Baxter, Virginia Director

Russ Fairchild - Chair, PA House of Representatives
Charles A. McClenahan - Vice-Chair, MD House of Delegates
Martin E. Williams - Vice-Chair, Senate of VA
Robert S. Bloxom - VA House of Delegates
Bill Bolling - Senate of VA
Thelma S. Drake - VA House of Delegates
Bernie Fowler - MD Citizen Representative
J. Charles Fox - MD Department of Natural Resources
Brian E. Frosh - MD Senate
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David E Hess - PA Department of Environmental Protection
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The CBPO offices are located on Spa Creek on Annapolis Harbor, less than 30 miles from Baltimore or Washington. The nearest major airport is the Baltimore-Washington International (BWI). AMTRAK service is available to Baltimore, Washington, New Carrolton and BWI Airport (limited).

If driving – Take Route 50 to Exit 24, Annapolis/Rowe Blvd. If coming from Baltimore, I-97 empties into Route 50 just west of exit 24. From the east, be sure to stay off to the right at the exit and do not go onto Bestgate Road. Take Rowe Blvd. until it forks (just prior to road construction signs). Veer right onto Northwest Street and follow it through one stoplight until it ends at Church Circle. Take a right onto Church Circle and stay in the outer part of the circle.

Exit onto Duke of Gloucester St. (at light between Bank of America and Maryland Inn). Take Duke of Gloucester St. until it ends at stop sign, staying in right lane. Turn right to go over the bridge and stay in left lane after bridge. Take first left, at stoplight, onto Severn Avenue. Go 1 ½ blocks and turn left into Annapolis City Marina pay parking lot or use free street parking.

The CBPO is on the first floor of the building facing the harbor and the Information and Conference Center is on the first floor of the two-story building overlooking the marina.

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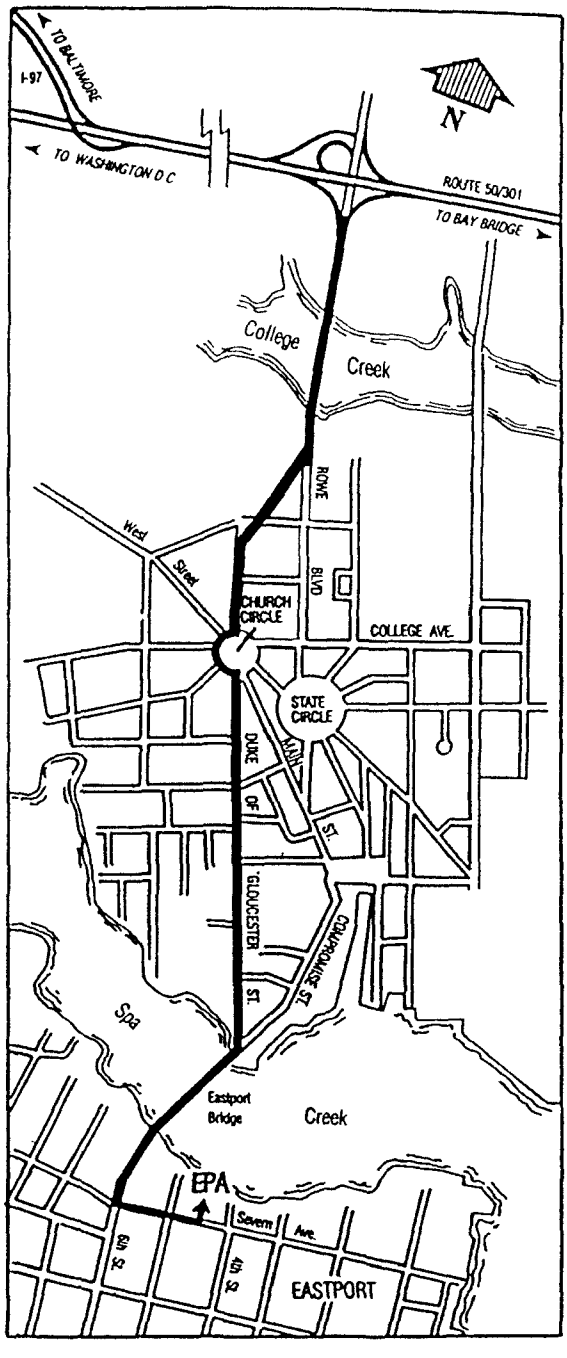

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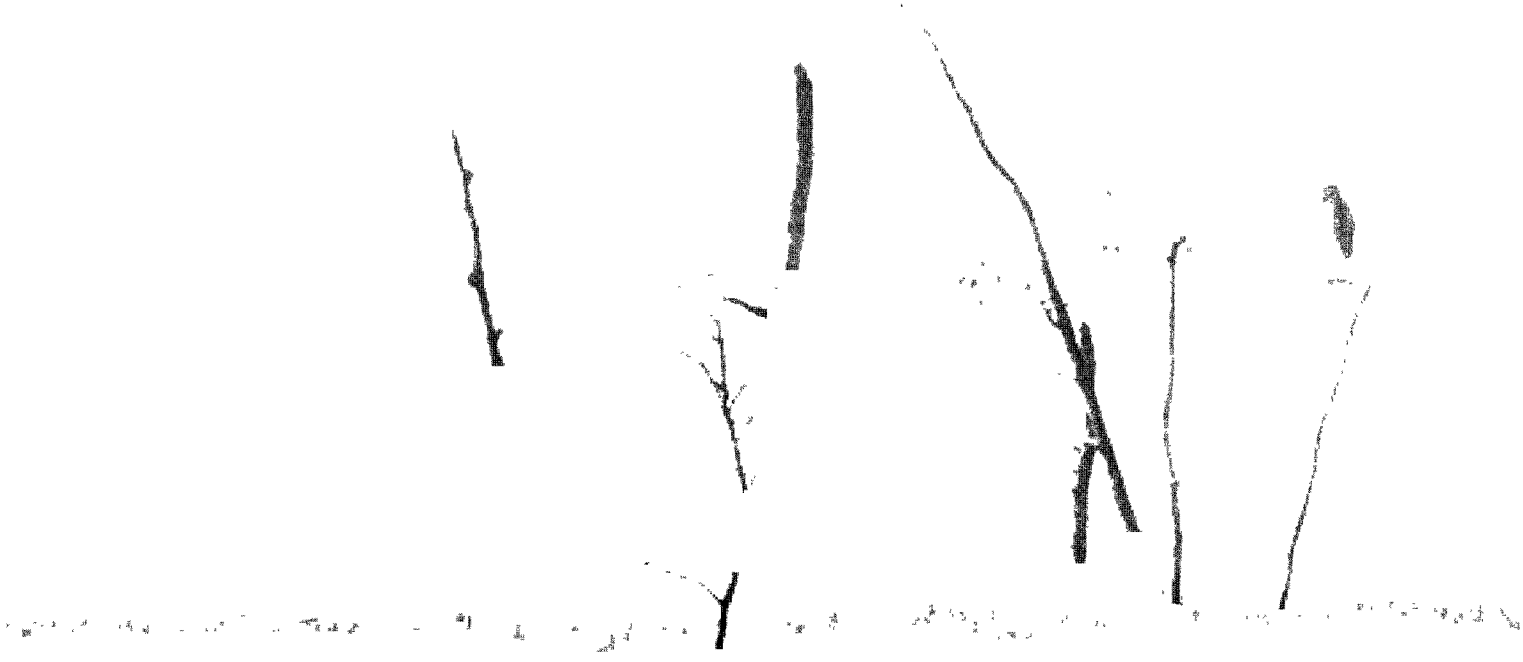

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A "WHO'S WHO" IN THE CHESAPEAKE BAY PROGRAM

April 2001

Chesapeake Bay Program

A Watershed Partnership

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Cover photo: Blackwater National Wildlife Refuge
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Robert Shewack

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.

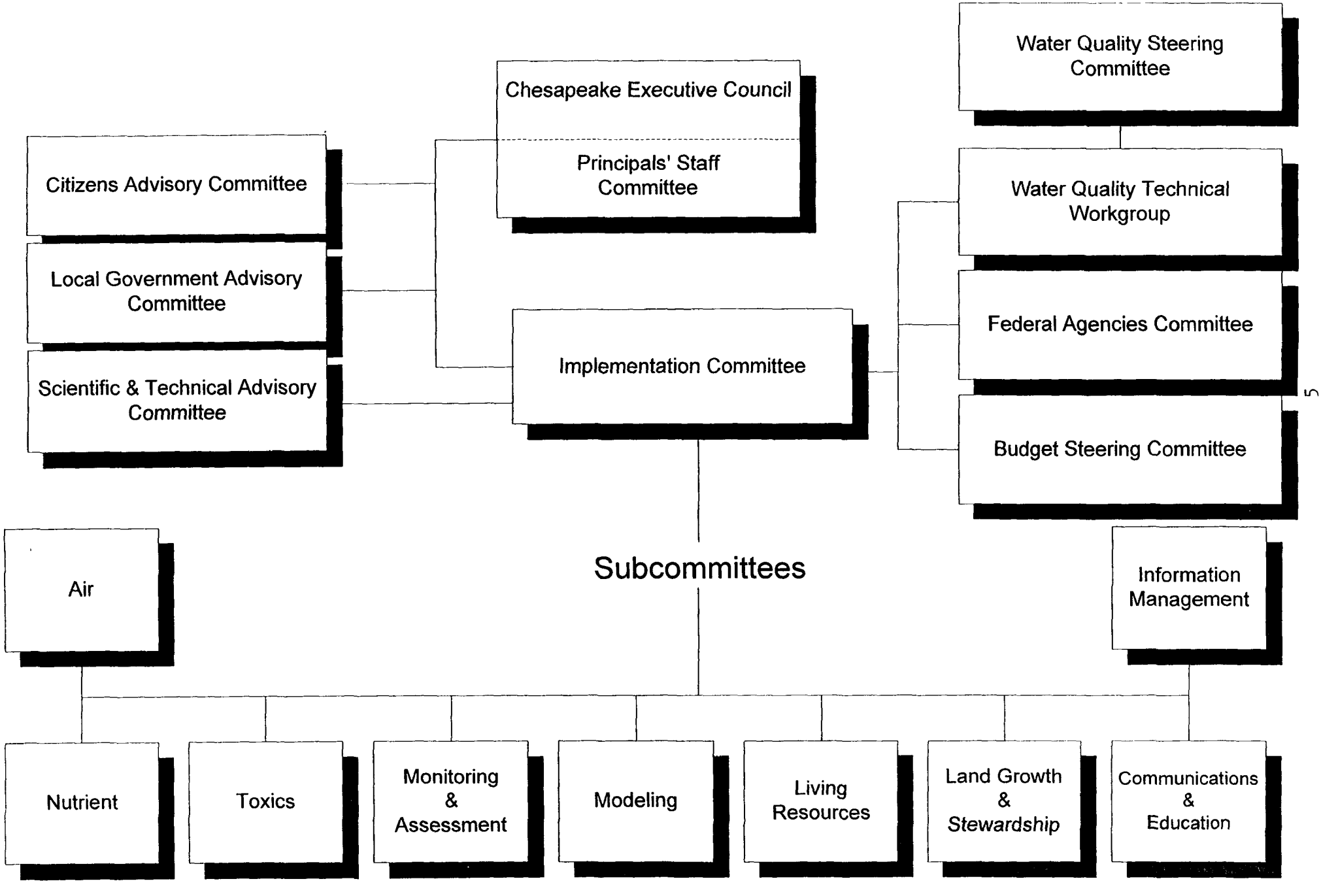
- **Bald eagles:** Bald eagle counts for 2000 indicated that the recovery of the bald eagle population in the Chesapeake Bay watershed – an area with one of the highest concentrations of eagles in the United States – remained on track. There were 533 active nests (with young eagles) in 2000 in Maryland, 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 Bay Program Organizational Chart



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
Mayor
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Sen. Brian E. Frosh
Chair
Chesapeake Bay Commission
MD Senate
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James S. Gilmore, III
Governor
Commonwealth of Virginia
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Parris N. Glendening
Governor
State of Maryland
Office of the Governor
State House
Annapolis, MD 21401
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Thomas J. Ridge
Governor
Commonwealth of Pennsylvania
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Harrisburg, PA 17120
(717) 787-2500

Christine Todd Whitman
Administrator
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Washington, DC 20004
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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 Subcommitee)
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
David Brickley - VA Department of Conservation and Recreation
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)
Moira 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)
Robert Magnien - MD Department of Natural Resources
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)

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

David Johnson - **Chair**, VA Department of Environmental Quality
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

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
Ann Regn - VA Department of Environmental Quality
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.

Gary Waugh - **Chair**, VA Department of Conservation and Recreation
Karen Baker - US Army Environmental Center
Kathleen Banski - PA Bay Education Office
Thomas W. Burke - MD Department of Natural Resources
Bob Campbell - National Park Service
Carl Cole - Management Consultant
Delores Dalton - VA Department of Education
Pat Devlin - Alliance for the Chesapeake Bay
Clifford A. Falkenau - Citizen
Frances H. Flanigan - Alliance for the Chesapeake Bay
Anne Goode - DC Department of Health
Jack Greer - MD Sea Grant College Program
Donna Heron - US Environmental Protection Agency
Peter Hill - National Oceanic and Atmospheric Administration
Mike Land - Alliance for the Chesapeake Bay
Bob Maddox - MD Department of the Environment
Peter J. Marx - US Environmental Protection Agency
Mike McCoy - MD Department of the Environment
Skip Meehan - National Park Service
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
Kathy Reshetiloff - US Fish & Wildlife Service
Bob Shewack - US Environmental Protection Agency
Ann Swanson - Chesapeake Bay Commission
Nita Sylvester - US Environmental Protection Agency
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 Colombia 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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Kathleen Banski - Pennsylvania Association of Conservation Districts
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
Frances Lee Larkin - Virginia Institute of Marine Science
Peter J. Marx - US Environmental Protection Agency
Ann Regn - VA Department of Environmental Quality
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

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:

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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: 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 Sceince
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 Institite 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 Wildife 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

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
Lawerence 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

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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Email: champion.jonathan@epa.gov

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

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 Comission
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 Odato - 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 Subcomittees. 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

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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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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schweigart@serc.si.edu

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 Aboretum, Ag. Research Service
Martin Elliott - US Army
Brian Feeney - Horne Engineering Services, Inc.
Judith Freeman - National Oceanic and Atmospheric Administration
Janmichael 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)
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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.

CHESPAKEAKE 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.

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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
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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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Lyle Varnell - VA Institute of Marine Science
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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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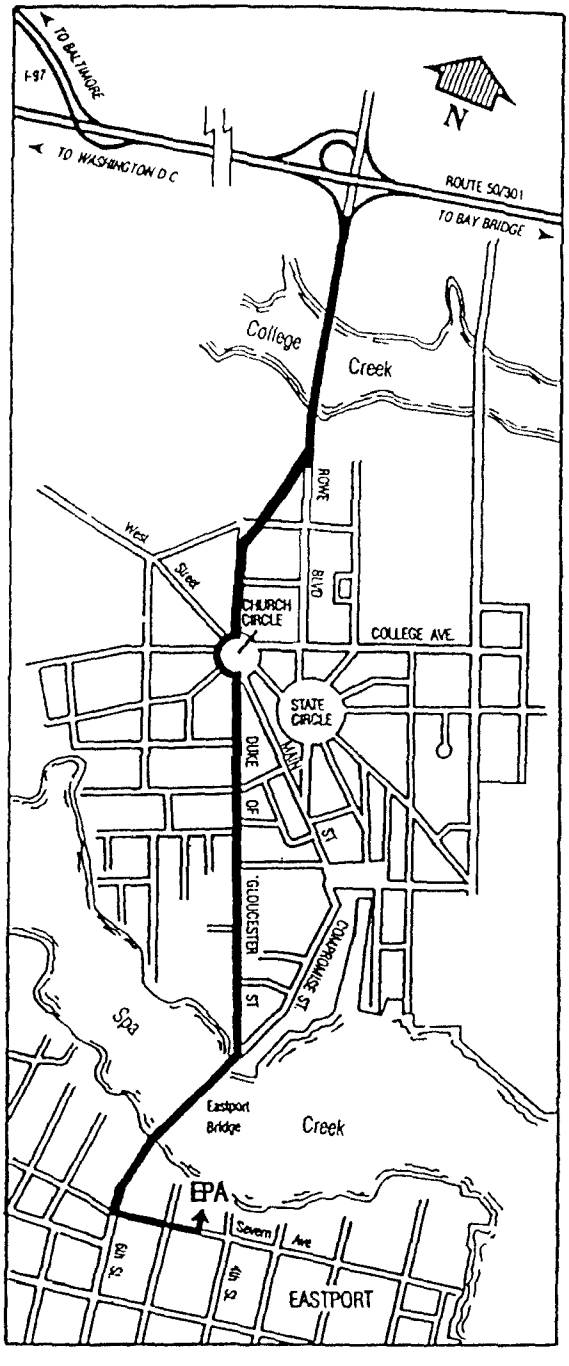
Peter J. Zug - PA House of Representatives

DIRECTIONS TO THE CHESAPEAKE BAY PROGRAM OFFICE (CBPO)

The **Chesapeake Bay Program Office** is located on Spa Creek on Annapolis Harbor. It is less than 30 miles from Baltimore or Washington. The nearest major airport is Baltimore-Washington International (BWI). AMTRAK service is available to Baltimore, Washington, New Carrolton and BWI Airport (limited).



If driving– Take Route 50 to Exit 24, Annapolis/Rowe Blvd. If coming from Baltimore, I-97 empties into Route 50 just west of exit 24. From the east, be sure to stay off to the right at the exit and do not go onto Bestgate Road. Take Rowe Blvd until it forks (just prior to road construction signs). Veer right onto Northwest Street and follow it through one stoplight until it ends at Church Circle. Take a right onto Church Circle and stay in the outer part of the circle.

Exit onto Duke of Gloucester St. (at light between Maryland and National Bank and Maryland Inn). Take Duke of Gloucester St until it ends at stop sign, staying in right lane. Turn right to go over the bridge and stay in left lane after bridge. Take first left, at stoplight, onto Severn Avenue. Go 1 ½ blocks and turn left into Annapolis City Marina pay parking lot or use free street parking.

The CBPO is on the first floor of the building facing the Harbor and the Information and Conference Center is on the first floor of the two-story building overlooking the marina.

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