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

Chesapeake Bay Program
A Watershed Partnership

November 2003

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

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Chesapeake Bay Program

A Watershed Partnership

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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; and the U.S. Environmental Protection Agency (EPA), representing the federal government. The partnership recently welcomed Delaware, New York and West Virginia as "headwater partners" to better coordinate efforts in all parts of the watershed.

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 16 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.

The Chesapeake Bay Program has a variety of publications detailing the Program's restoration efforts. The *State of the Chesapeake Bay* report is created bi-annually to update the citizens of the Bay watershed on the progress of Bay restoration and protection efforts. For copies of the *State of the Chesapeake Bay* report, visit the Bay Program's website at www.chesapeakebay.net or call 800 YOUR-BAY.

The State of the Chesapeake Bay: A Report to the Citizens of the Chesapeake Bay Region

Executive Summary

Since 1983 the Chesapeake Bay Program has worked with federal, state and local governments; industry; farmers; environmentalists; conservation associations; citizen groups and interested individuals to restore the Bay's water quality by reducing pollution.

Clearly, significant progress has been made, but there is still a long way to go. The *Chesapeake 2000* agreements provide the Bay Program partners with a blueprint for success.

Chesapeake 2000—Guiding Restoration in the New Century

In *Chesapeake 2000*, Bay Program partners pledged to continue to restore, enhance and protect the Bay's living resources and their habitats. The Bay Program also inaugurated a new approach, one that embodies a fundamental shift in perspective. While continuing to focus on individual species and habitats that require specific attention, such as the blue crab, oyster reefs and shad, the new agreement also recognizes the intimate linkages among these systems and addresses their interdependence within the context of a single, broad ecosystem. This additional focus on multispecies management takes into account the relationships among many species that comprise the Bay's food web. *Chesapeake 2000* also expands the scope of earlier agreements by recognizing the vital importance of educating young people and adults in the watershed and by increasing opportunities for active community engagement in restoring and protecting the Chesapeake Bay.

Here are some highlights of our current progress:

• Underwater bay grasses: The total acreage of bay grasses has increased since the low point in 1984 from 38,000 acres to 89,658 acres in 2002. The Bay Program's goal is to achieve 185,000 acres by 2010.

• Nutrient progress: A recent analysis revealed that between 1985 and 2001, phosphorus loads delivered to the Bay from all of its tributaries declined by 8.35 million pounds per year. Nitrogen loads declined by 62.36 million pounds per year.

• In 2003, Bay Program partners committed to additional reductions in nutrient pollution. The new reduction goals, or allocations, cap annual loads of nitrogen at 175 million pounds and phosphorus at 12.8 million pounds. In order to meet the new allocations, Bay Program partners need to reduce annual loads of nitrogen by an additional 100 million pounds and phosphorus by an additional 6 million pounds by 2010.

• Fish passage: In 2003, more than 60 miles of waterways in the Bay watershed were reopened to migratory fish by removing blockages (e.g., dams, culverts) or constructing fish passages. The goal to open 1,357 miles to migratory fish by 2003 will likely be met in 2004. A total of 977 miles were reopened between 1988 and Fall 2003.

• Oyster habitat: As of December 2001, more than 50,000 acres were designated as oyster sanctuaries. Within those designated areas, more than 330 acres of oyster habitat have already been constructed.

• Blue crabs: The 2003 Chesapeake Bay Blue Crab Advisory Report indicated that blue crab abundance has stabilized near historically low levels over the last four years. In 2001, Bay jurisdictions adopted a baywide threshold for the blue crab stock implementing *Chesapeake 2000's* commitment for a 15 percent reduction in harvest levels.

• Chemical releases: In December 2000, the Chesapeake Bay Program adopted the *Toxics 2000 Strategy*, which commits to meeting voluntary goals that surpass current regulatory requirements and strives to achieve "zero release" of chemical contaminants into the Bay. Between 1988 and 1998, industries have reduced chemical releases by 67 percent.

• Water trails: At present, 1,499 miles of water trails are located in the Bay watershed with 105 miles designated in 2003. The goal to increase water trails by 500 miles by 2005 was achieved three years ahead of schedule.

• Bald eagles: Bald eagle counts from 2002 indicated the recovery of the bald eagle population in the Chesapeake Bay watershed has remained on track. A total of 680 occupied nests were counted in 2002 in Maryland, Pennsylvania, Virginia and the District of Columbia—up from 649 occupied nests the year before.

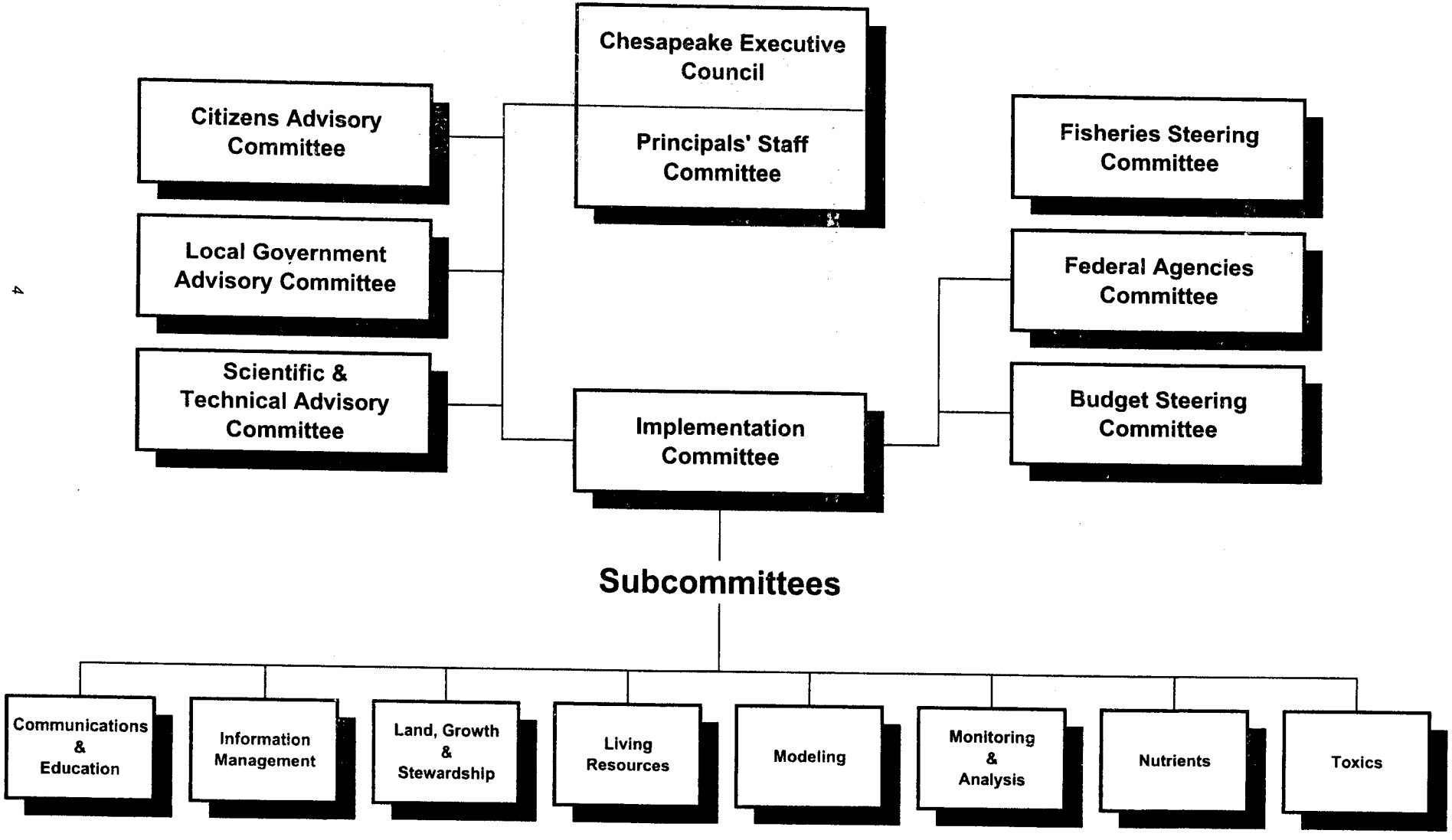
• Waterfowl: Data released in June 2003 show an increase in several species of waterfowl living in the Chesapeake Bay watershed, with 13 of 21 monitored species or species groups meeting year 2000 population goals.

• Riparian forest buffers: Between 1996 and September 2003, 2,869 miles of riparian forest buffers were planted in the Chesapeake Bay watershed. We met the Bay Program partners' goal of restoring 2,010 miles of streamside buffers in the watershed by 2010, eight years ahead of schedule.

We are encouraged by these achievements, but much remains to be done. Thanks to the tremendous collaborative effort that yielded *Chesapeake 2000*, we have a useful road map for current efforts and the next generation of issues.

Chesapeake Bay Program

Organizational Chart



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 2002 annual meeting, EPA committed to issue the water quality criteria document for the Chesapeake Bay and its tidal tributaries by April 2003. All members of the Council committed to setting nutrient and sediment reduction goals by the same date. These commitments were met.

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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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 a number of times a year, also provides policy and program direction to the Implementation Committee.

Principals' Staff Committee Membership

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

C. Ronald Franks – Secretary, MD Department of Natural Resources
Kendl P. Philbrick – Acting Secretary, MD Department of the Environment
Lewis R. Riley – Secretary, MD Department of Agriculture
Audrey E. Scott – Secretary, MD Department of Planning

Kathleen A. McGinty – Secretary, PA Department of Environmental Protection
Cathleen Curran Myers – Deputy Secretary, PA Department of Environmental Protection
Michael DiBerardinis – Secretary, PA Department of Conservation and Natural Resources
Richard G. Sprenkle – Deputy Secretary, PA Department of Conservation and Natural Resources

Theodore J. Gordon – Senior Deputy for Environmental Health Science & Regulation, DC Department of Health
Elizabeth Berry – Special Assistant to the Mayor for Environmental Affairs

Donald 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 - Office of the Virginia Secretary of Natural Resoures
Sheila Besse - DC Department of Health
Patricia Buckley - PA Department of Environmental Protection
Mark M. Bundy - MD Department of Natural Resources
James R. Collier - DC Department of Health
Scott Crafton - VA Chesapeake Bay Local Assistance Department
Diana Esher - US Environmental Protection Agency
Jack E. Frye - VA Department of Conservation and Recreation
Hamid Karimi - DC Department of Health
Peter J. Marx - US Environmental Protection Agency
Alan Pollock - VA Department of Environmental Quality
Royden Powell - MD Department of Agriculture
Robert Summers - MD Department of the Environment

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 US 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 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 Membership

Rebecca Hanmer - Chair, US Environmental Protection Agency (Director, Chesapeake Bay Program Office)
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Russell W. Baxter - Office of the Virginia Secretary of Natural Resoures
Jerusalem Bekele - DC Department of Health
Carin Bisland- US Environmental Protection Agency
Karl Brown - PA State Conservation Commission
Patricia Buckley - PA Department of Environmental Protection
Mark Bundy - MD Department of Natural Resources
David Butler - US Coast Guard
Bob Campbell - National Park Service (Chair, Communications and Education Subcommittee)
James R. Collier - DC Department of Health (Chair, Modeling Subcommittee)
Steven A. Connelly - MD Farm Service Agency
Frank Dawson - MD Department of Natural Resources (Chair, Living Resources Subcommittee)
David Doss - Natural Resources Conservation Service
Diana Esher - US Environmental Protection Agency (Chair, Budget Steering Committee)
Richard Eskin - MD Department of the Environment (Chair, Toxics Subcommittee)
Jack E. Frye - VA Department of Conservation and Recreation
Ted Graham - Metropolitan Washington Council of Governments (Chair, Land, Growth and Stewardship Subcommittee)
Jennifer Greiner - US Fish and Wildlife Service
Carlton Haywood - Interstate Commission on the Potomac River Basin (Chair, Monitoring and Analysis Subcommittee)
Carl Hershner - VA Institute of Marine Science (Chair, Scientific and Technical Advisory Committee)
Roy A. Hoagland - Chesapeake Bay Foundation (Chair, Citizens Advisory Committee)
Joe Hoffman - Interstate Commission on the Potomac River Basin
Nancie Imler - PA Department of Environmental Protection (Chair, Information Management Subcommittee)
Hamid Karimi - DC Department of Health
John Kennedy - VA Department of Environmental Quality
Glenn Markwith - Commander, Navy Region Mid-Atlantic
Ellen Moyer - Mayor of Annapolis (Chair, Local Government Advisory Committee)
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, Nutrients 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
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 Budget Steering Committee 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 Budget Steering Committee assists the Bay Program as requested in strategic planning and annual work planning functions to ensure a coordinated, cross-program approach.

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BUDGET STEERING COMMITTEE

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Carin Bisland - US Environmental Protection Agency
Patricia Buckley - PA Department of Environmental Protection
Mark Bundy - MD Department of Natural Resources
Bob Campbell - National Park Service (Chair, Communications and Education Subcommittee)
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Moira Croghan - VA Department of Conservation and Recreation
Melanie Davenport - Chesapeake Bay Commission
Frank Dawson - MD Department of Natural Resources (Chair, Living Resources Subcommittee)
Jim Elliott - Hunton & Williams
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Ted Graham - Metropolitan Washington Council of Governments (Chair, Land, Growth and Stewardship Subcommittee)
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Carlton Haywood - Interstate Commission on the Potomac River Basin (Chair, Monitoring and Analysis Subcommittee)
Carl Hershner - VA Institute of Marine Science (Chair, Scientific and Technical Advisory Committee)
Roy A. Hoagland - Chesapeake Bay Foundation (Chair, Citizens Advisory Committee)
Nancie Imler - PA Department of Environmental Protection (Chair, Information Management Subcommittee)
Hamid Karimi - DC Department of Health
Ellen Moyer - Mayor of Annapolis (Chair, Local Government Advisory Committee)
Peyton Robertson - National Oceanic and Atmospheric Administration
Thomas W. Simpson - University of Maryland (Chair, Nutrients Subcommittee)
Ann Swanson - Chesapeake Bay Commission
Stacey Underwood - US Army Corps of Engineers

COMMUNICATIONS AND EDUCATION SUBCOMMITTEE

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

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 "Stewardship and Community Engagement" section of the *Chesapeake 2000* agreement. 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 Membership

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

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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 implement 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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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 constituents. 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 Chesapeake Bay Program web site. CIMS is a user-friendly, organized library of information and software tools, which is distributed among participating organizations. The goal of CIMS is to increase basin-wide 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. The subcommittee is dedicated to disseminating and distributing Bay-related information and to educating grant recipients and Chesapeake Bay Program partners about the CIMS network, data standards, guidelines and the process of data sharing.

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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 most valued resource lands by conservation 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;
  - 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;
- Coordination of transportation and land use planning; and
- 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 and local programs;
- Identifying, tracking and measuring performance;
- Identifying barriers and incentives;
- Identifying and/or developing guidance and tools; and,
- Providing training, technical and financial assistance to targeted audiences.

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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

Ted Graham - Chair, Metropolitan Washington Council of Governments
Menchu Martinez - Coordinator, US Environmental Protection Agency
Meg Andrews - Maryland Dept.of Transportation
Carin Bisland- US Environmental Protection Agency
Alexi Boado - DC Dept. of Health, Environmental Health Administr
Patricia Buckley - PA Department of Environmental Protection
Pam Bush - MD Department of Natural Resources
Bob Campbell - National Park Service
Peter Claggett - US Geological Service
Sally Claggett - US Forest Service
John Davy - VA Department of Conservation and Recreation
Michelle Edwards - VA Dept. of Conservation & Recreation
Lee Epstein - Chesapeake Bay Foundation
David Kovacs - Virginia Conservation Network
Ryan Link - VA Chesapeake Bay Local Assistance Department
Katie McHugh - MD State Builders Association
Catherine Rappe - MD Department of Natural Resources
Jim Reilly - MD Department of Planning
Philip Robbins - PA DCED Governor's Center for Local Government Services
Ann Swanson - Chesapeake Bay Commission
Mark Thompson - International City/County Management Association

Development, Redevelopment and Revitalization Workgroup - The workgroup is developing an overall plan for monitoring progress on the development, redevelopment and revitalization commitments of *Chesapeake 2000*; 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.
- Develop and implement strategies to promote sound land use practices called for in the Development/Redevelopment section of *Chesapeake 2000*.

In addition, the workgroup will serve as a forum for coordinating and communicating individual state progress toward these commitments.

Alexi Boado - DC Department of Health, Environmental Health Administration
Peter Claggett - US Geological Survey
Pat Devlin - Alliance for the Chesapeake Bay
Michelle Edwards - VA Department of Conservation and Recreation
Lee Epstein - Chesapeake Bay Foundation
Ted Graham - Metropolitan Washington Council of Governments
Neil Kinsey - PA DCED Governor's Center for Local Government Services
Vincent Leggett - Maryland Department of Natural Resources
Menchu Martinez - US Environmental Protection Agency
Maureen Tooke - International City/County Management Association

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 preserve 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:

- Establish a preserved land baseline and tracking system.
- Identify the "most valued lands" for protection.
- Strengthen programs for land acquisition within each state.
- 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.

Pam Bush - **Chair,** MD Department of Natural Resources
David Boyd - VA Department of Conservation and Recreation
Rick Carlson - PA Department of Conservation and Natural Resources
Steve Carter-Lovejoy - VA Department of Conservation and Recreation
Peter Claggett - US Geological Survey
Sally Claggett - US Forest Service
Grant Dehart - MD Department of Natural Resources
David Dowling - VA Department of Conservation and Recreation
Menchu Martinez - US Environmental Protection Agency
Ken Miller - MD Department of Natural Resources
Dan Murphy - US Fish and Wildlife Service
Thomas Smith - VA Department of Conservation and Recreation

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 the 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
Bob Campbell - National Park Service
Lisa Gutierrez - MD Department of Natural Resources
Derral Jones - VA Department of Conservation and Recreation
Marty Kaehny - US Fish and Wildlife Service
Brook Lenker - Alliance for the Chesapeake Bay
Dan Martin - PA Fish and Boat Commission
Peter J. Marx - US Environmental Protection Agency
Ted Pochter - DC Department of Parks and Recreation

Transportation Workgroup - The workgroup will focus on implementing the commitments contained in the Transportation section of the *Chesapeake 2000* agreement. A strategic plan has been developed for the first two commitments which includes: coordinating state efforts with Metropolitan Planning Organizations; sharing information among state programs, and with constituents (e.g., local governments); and, creating and implementing specific actions for a particular commitment as needed.

Meg Andrews - Chair, Maryland Department of Transportation
Danielle Algazi - Coordinator, US Environmental Protection Agency
David Clawson - American Association of State Highway and Transportation Officials
Wendy Klancher - Metropolitan Washington Council of Governments
Wayne Kober - Consultant
Tom Kotay - PA Department of Transportation
Karen Kwiterovich - Baltimore Metropolitan Council
Ben Mannell - VA Department of Transportation
Gail McFadden-Roberts - Federal Transit Administration
Kelly Shenk - US Environmental Protection Agency
Maureen Tooke - International City/County Management Association
Angela Watson - PA Department of Transportation
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.

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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.

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

Frank Dawson - Chair, MD Department of Natural Resources
Mike Fritz - Coordinator, US Environmental Protection Agency
Peter Bergstrom - National Oceanic and Atmospheric Administration
Claire Buchanan - Interstate Commission on the Potomac River Basin
Marie Bundy - Academy of Natural Sciences
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
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 - 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 DC
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*. The workgroup also receives guidance from the Fisheries Steering Committee.

Nancy Butowski - Chair, MD Department of Natural Resources
Mike Fritz - Coordinator, US Environmental Protection Agency
A.C. Carpenter - Potomac River Fisheries Commission
Ellen Cosby - VA Marine Resource Commission
William 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
Howard King - MD Department of Natural Resources
Mike Mangold - US Fish and Wildlife Service
Derek Orner - National Oceanic and Atmospheric Administration
Jon Siemien - DC Fisheries and Wildlife Division
Jack Travelstead - VA Marine Resources Commission
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 includes members who also belong to the Monitoring (Data Analysis Workgroup), Modeling and Information Management Subcommittees, the Chesapeake Bay Program Data Center and each of the other Living Resources Subcommittee workgroups. The technical advisory committee includes representatives of the key Chesapeake basin monitoring programs, the Scientific and Technical Advisory Committee and other Chesapeake Bay Program committees.

Claire Buchanan - Co-Chair, Interstate Commission on the Potomac River Basin
Arthur Butt - Co-Chair, VA Department of Environmental Quality
Peter Bergstrom - National Oceanic and Atmospheric Administration
Marcia Berman - VA Institute of Marine Science
Marie Bundy - Academy of Natural Sciences
Nancy Butowski - MD Department of Natural Resources
Doug Forsell - US Fish and Wildlife Service
Jacqueline Johnson - Interstate Commission on the Potomac River Basin
Julie Labranche - MD Department of Natural Resources
Margaret McGinty - MD Department of Natural Resources
Marcia Olson - National Oceanic and Atmospheric Administration
Derek Orner - National Oceanic and Atmospheric Administration
Edward Pendleton - US Geological Survey
Peter Tango - MD Department of Natural Resources
Howard Weinberg - University of MD Center for Environmental Science
Douglas Wilson - National Oceanic and Atmospheric Administration
Bob Wood - National Oceanic and Atmospheric Administration

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 - US Department of Agriculture
Mike Fritz - US Environmental Protection Agency
Jack Greer - Maryland Sea Grant
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
Roy W. Miller - DE Department of Natural Resources and Environmental Control
Whitman Miller - Smithsonian Environmental Research Center
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 DC
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
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 coordinates efforts 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. These efforts are intended 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.

Tom Barron - PA Department of Environmental Protection
Peter Bergstrom - National Oceanic and Atmospheric Administration
Al Blott - National Oceanic and Atmospheric Administration
R. Scott Carney - PA Fish and Boat Commission
Denise Clearwater - MD Department of the Environment
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 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
Sarah Nicholas - American Rivers
John Nichols - National Oceanic and Atmospheric Administration
David Norris - VA Department of Game and Inland Fisheries
Susan Olsen - National Oceanic and Atmospheric Administration
Richard Quinn - US Fish and Wildlife 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 Center for Environmental Science

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.

Peter Bergstrom - Chair, National Oceanic and Atmospheric Administration
Rich Ayella - MD Department of the Environment
Ernest Brown - VA Department of Conservation and Recreation
Marie Bundy - Academy of Natural Sciences
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
Carl Hershner - VA Institute of Marine Science
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

The Modeling Subcommittee ensures that appropriate and technically defensible modeling tools are available to the Chesapeake Bay Program. These models assist in understanding of the important processes affecting the watershed and Bay water quality, assist understanding of the important processes affecting key Bay living resources and 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
Chesapeake Bay Model Expert Team

MODELING SUBCOMMITTEE

Modeling Subcommittee Membership

James R. Collier - Chair, DC Department of Health
Lewis Linker - Coordinator, US Environmental Protection Agency
Lowell Bahner - National Oceanic and Atmospheric Administration
Mark Bennett - US Geological Survey
Peter Bergstrom - National Oceanic and Atmospheric Administration
Mike Bowman - VA Department of Conservation and Recreation
Bill Brown - PA Department of Environmental Protection
Arthur Butt - VA Department of Environmental Quality
Robin Dennis - US Environmental Protection Agency
Charles A Lunsford - VA Department of Conservation and Recreation
Ross Mandel - Interstate Commission on the Potomac River Basin
Timothy J. Murphy - Metropolitan Washington Council of Governments
Narendra Panday - MD Department of the 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

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 Virginia

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 Membership

Carlton Haywood - Chair, Interstate Commission on the Potomac River Basin
Steve Preston - Coordinator, US Geological Survey
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
Lewis Linker - US Environmental Protection Agency
Beth McGee - US Fish and Wildlife Service
Hassan Mirsajadi - DE Department of Natural Resources and Environmental Control
Matt Monroe - WV Department of Agriculture
Derek Orner - National Oceanic and Atmospheric Administration
Scott Phillips - US Geological Survey
Richard Shertzer - PA Department of Environmental Protection
John Sherwell - MD Department of Natural Resources

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
Mary Ellen Ley - Coordinator, US Geological Survey
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 - Virginia Tech
Joe Dorsey - US Environmental Protection Agency
Suzanne Doughten - Old Dominion University
Gary Du - VA Department of Environmental Quality
Adil Godrej - Virginia Tech
Rick Hoffman - VA Department of Environmental Quality
Cliff Jarmon - DC Department of Health
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 Maryland
Carolyn Keefe - University of Maryland
Richard Lacouture - Academy of Natural Sciences
Douglas L. Moyer - US Geological Survey
Marcia Olson - National Oceanic and Atmospheric Administration
Elgin S. Perry - Consultant
Carol Pollard - VA Institute of Marine Science
Robert Potts - VA Division of Consolidated Laboratory Services
Steve Preston - US Geological Survey
Gloria Roane - MD Department of Health and Mental Hygiene
Al Robertson - DC Department of Health
Michael P. Senus - US Geological Survey
Kathryn Wood - University of MD Center for Environmental Science
Carl Zimmermann - University of MD Center for Environmental Science

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
Cliff Jarmon - DC Department of Health
Cindy Johnson - VA Department of Environmental Quality
Mike Lane - Old Dominion University
Tyrone Lee - MD Department of Natural Resources
Mary Ellen Ley - US Geological Survey
Bruce Michael - MD Department of Natural Resources
Marcia Olson - National Oceanic and Atmospheric Administration

Non-tidal Water Quality Workgroup - The mission of the workgroup is to coordinate and improve the efficiency of monitoring programs in the non-tidal portion of the Chesapeake Bay watershed. The workgroup also seeks to analyze the data from these programs to better understand the response of water quality to ecosystem stressors and management measures. 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
Steve Preston - Coordinator, 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
Kevin McGonigal - Susquehanna River Basin Commission
Bruce Michael - MD Department of Natural Resources
Paul Miller - MD Department of Natural Resources
Hassan Mirsajadi - DE Department of Natural Resources and Environmental Control
Matt Monroe - WV Department of Agriculture
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.

Steve Preston - Coordinator, US Geological Survey
Peter Bergstrom - National Oceanic and Atmospheric Administration
Claire Buchanan - Interstate Commission on the Potomac River Basin
Daniel M. Dauer - Old Dominion University
Elizabeth Ebersole - MD Department of Natural Resources
Larry Haas - VA Institute of Marine Science
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 Sciences
Jurate Landwehr - US Geological Survey
Mary Ellen Ley- US Geological Survey
Roberto Llanso - Versar, Inc.
Bruce Michael - MD Department of Natural Resources
Marcia Olson - National Oceanic and Atmospheric Administration
Elgin S. Perry - Consultant
William D Romano - MD Department of Natural Resources
Mark Trice - MD Department of Natural Resources

NUTRIENT SUBCOMMITTEE

The Nutrient 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 tours and special conferences.

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, Sediment Workgroup, Tributary Strategy Workgroup

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e-mail: mcorrozi@chesapeakebay.net
Workgroups: Agricultural Nutrient Reduction Workgroup, Point Source Workgroup, Urban Storm Water Workgroup

Nutrient Subcommittee Structure

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

Nutrient Subcommittee Membership

Thomas W. Simpson - Chair, University of Maryland
Mike Bowman - Vice Chair, VA Department of Conservation and Recreation
Russell Mader - Coordinator, Natural Resources Conservation Service
Terry Black - PA Department of Environmental Protection
Michael Brown - DE Department of Natural Resources and Environment
Katherine Bunting-Howarth - DE Department of Natural Resources and Environmental Control
Collin Burrell - DC Department of Health
Sally Claggett - US Forest Service
Scott Crafton - VA Chesapeake Bay Local Assistance Department
Melanie Davenport - Chesapeake Bay Commission
Bob Ehrhart - VA Department of Environmental Quality
J. Michael Foreman - VA Department of Forestry
Jeffrey Halka - MD Geological Survey
Maggie Kerchner - National Oceanic and Atmospheric Administration
Mike Langland - US Geological Survey
Scott Macomber - MD Department of the Environment
Matt Monroe - WV Department of Agriculture
John Murtha - PA Department of Environmental Protection
Kenn Pattison - PA Department of Environmental Protection
Russ Perkinson - VA Department of Conservation and Recreation
Steele Phillips - Citizens Advisory Committee
Royden Powell - MD Department of Agriculture
Kelly Shenk - US Environmental Protection Agency
John Sherwell - MD Department of Natural Resources
Randolph Sovic - WV Department of Environmental Protection
Mark Waggoner - Natural Resources Conservation Service

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:

- 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; and
- Review and report on standards for soil and water quality conservation planning.

Russ Perkinson - Chair, VA Department of Conservation and Recreation
John Davis - USDA-Natural Resource Conservation Service
Doug Goodlander - PA State Conservation Commission
Jerry Griswold - Natural Resources Conservation Service
Tom Juengst - PA Department of Environmental Protection
Maggie Kerchner - National Oceanic and Atmospheric Administration
Matt Monroe - WV Department of Agriculture
Herb Reed - University of Maryland Cooperative Extension
Diana Reynolds - MD Department of Natural Resources
William Rohrer - Delaware Nutrient Management Commission
Fred Samadani - MD Department of Agriculture
Ron Wood - VA Chesapeake Bay Local Assistance Department

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; and
- 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.

J. Michael Foreman - Chair, VA Department of Forestry
Tina Alban - PA Bureau of Forestry
Keith Ashley - PA Department of Environmental Protection
Tom Bailey - US Forest Service
Brad Belo - VA Chesapeake Bay Local Assistance Department
Sally Claggett - US Forest Service
Matthew Ehrhart - Chesapeake Bay Foundation
Scott English - US Army Environmental Center
Karen Fedor - American Forests
Carolyn Fiorey - US Fish and Wildlife Service
Anne Hairston-Strang - MD Department of Natural Resources Forest Service
Nathan Hart - DC Department of Health
Kirk Havens - VA Institute of Marine Science
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
Gary Speiran - US Geological Survey
Bill Street - Chesapeake Bay Foundation
Bob Tjaden - University of Maryland
Albert H. Todd - US Forest Service
Don VanHassent - MD Department of Natural Resrouces Forest Service
Melanie Wertz - PA Department of Environmental Protection

Point Source Workgroup - The Point Source Workgroup was established as 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; and
- Bring emerging technology issues and research topics to the Nutrient Subcommittee for discussion.

Bob Ehrhart - Chair, 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
William Ruby - DC Department of Health
Randolph Sovic - WV Department of Environmental Protection
Tanya Spano - Metropolitan Washington Council of Governments
Ning Zhou - Virginia Tech

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 best management practice 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 to states during tributary strategy development; and
- Provide assistance to the jurisdictions in evaluating and refining tributary strategies.

Mike Langland - Chair, US Geological Survey
Jeffrey Halka - Co-Chair, MD Geological Survey
Mike Bowman - VA Department of Conservation and Recreation
Owen Bricker - US Geological Survey
Grace S. Brush - Johns Hopkins University
Thomas M. Cronin - US Geological Survey
Lee Currey - MD Department of the Environment
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 Sceince
Lee Hill - VA Department of Conservation and Recreation
Timothy Karikari - DC Department of Health
Kenn Pattison - PA Department of Environmental Protection
Scott Phillips - US Geological Survey
Brian Rustia - Metropolitan Washington Council of Governments
Larry Sanford - University of MD Center for Environmental Science
Gary Shenk - US Environmental Protection Agency
Sean Smith - MD Department of Natural Resources
Steve Stewart - Baltimore County Department. of Environmental Protection and Resources
Debra Willard - US Geological Survey

Tributary Strategy Workgroup - The workgroup 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 best management practice 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; and
- 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
Sheila Besse - DC Department of Health
Katherine Bunting-Howarth - DE Department of Natural Resources and Environmental Control
Twila Carr - WV Department of Environmental Protection
Donald Fiesta - PA Department of Environmental Protection
Normand Goulet - Northern VA Regional Commission
Jerry Griswold - Natural Resources Conservation Service
V'lent Lassiter - VA Department of Conservation and Recreation
Lewis Linker - US Environmental Protection Agency
Scott Macomber - MD Department of the Environment
Russell Mader - Natural Resources Conservation Service
Kenn Pattison - PA Department of Environmental Protection
Diana Reynolds - MD Department of Natural Resources
Brian Rustia - Metropolitan Washington Council of Governments
Gary Shenk - US Environmental Protection Agency
Thomas W. Simpson - University of Maryland
Helen Stewart - MD Department of Natural Resources
Jeffrey Sweeney - University of Maryland

Urban Storm Water Workgroup – The Urban Storm Water workgroup was formed by the Nutrient and Toxics Subcommittees in 2001 and provides the Chesapeake Bay Program a forum to address storm water management to control nutrient, sediment and chemical contaminant runoff in the watershed. The workgroup's objectives include:

- Provide guidance and oversight to the local, state and district governments to achieve the commitments established in the 2001 Storm Water Directive;
- Provide technical expertise to improve urban runoff best management practice tracking and associated pollutant load reductions for the Bay Program model;
- Encourage the development and implementation of emerging storm water retrofit practices to improve their water quantity and quality function;
- Provide a forum to highlight local, state, district and non-government initiatives to improve the Bay's water quality by improving storm water prevention practices; and
- Encourage public education and participation to decrease storm water contaminant loads.

Scott Crafton - Chair, VA Chesapeake Bay Local Assistance Department
Kelly Shenk - Coordinator, US Environmental Protection Agency
Meg Andrews - Maryland Dept.of Transportation
Joseph Battiata - VA Department of Transportation
David Beale - VA Department of Conservation and Recreation
Ronald Bowen - Anne Arundel County Department of Public Works
Ted Brown - Center for Watershed Protection
Walter Caldwell - DC Department of Health
John Carlock - Hampton Roads Planning District Commission
R. Scott Christie - PA Department of Transportation
Kim Coble - Chesapeake Bay Foundation
Larry Coffman - Prince George's County
Matt Fleming - MD Department of Natural Resources
Larry Gavan - VA Department of Conservation and Recreation
Normand Goulet - Northern VA Regional Commission
Lisa Grippo - US Navy
Timothy Karikari - DC Department of Health
Kenneth Murin - PA Department of Environmental Protection
Ken Pensyl - MD Department of the Environment
Brian Rustia - Metropolitan Washington Council of Governments
Bill Stack - Baltimore City
Steve Stewart - Baltimore Co. Dept. of Env. Protection & Resource
Nancy Stoner - Natural Resources Defense Council
Burt Tuxford - VA Department of Environmental Quality
Raja Veeramachaneni - Maryland State Highway Administration

The Toxics 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.

Coordinator

Greg Allen
US Environmental Protection Agency
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Annapolis, MD 21403
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e-mail : allen.greg@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
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 - National Oceanic and Atmospheric Administration
Jim Pletl - Hampton Roads Sanitation District, VA
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 - City of Richmond Department of Public Utilities
David Velinsky - Academy of Natural Sciences
Allison Wiedeman - US Environmental Protection Agency
Mary Lynn Wilhere - Alliance for the Chesapeake Bay

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.

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
Kelly Shenk - US Environmental Protection Agency
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 he 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, Virginia Department of Conservation and Recreation Soil and Water Division
Randy Shank - Co-Chair, Virginia Cooperative Extension
David Bingaman - PA Department of Agriculture
Amy Brown - University of Maryland
Susan Debolt - Virginia Cooperative Extension
Fatima El Abdaoui - US Environmental Protection Agency
Lynn Garling - Penn State University
Ames Herbert - VA Cooperative Extension
Marvin Lawson - VA Department of Agriculture and Consumer Affairs
Betty Marose - University of Maryland
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 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*.

L. Evans Drake - Honeywell
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
Bob Steidel - City of Richmond Department of Public Utilities
Ning Zhou - Virginia 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*.

Bill Achor - Wenger's Feed Mills
Laura Armstrong - MD Department of the Environment
Jo Asher - Watercolor Lavender Farm
David Barnes - PA Department of Environmental Protection
Sharon K. Baxter - VA Department of Environmental Quality
Robert Dunn - Dupont
Tom Griffin - VA Department of Environmental Quality
Rodger Harrison - Grace Davison
Jim Houstoun - PIX
Nick Kauffman - DC Department of Health
Steve Pattison - Constellation Energy Group
Glenn Stephens - PA Department of Environmental Protection
George Walker - Fort Meade Environmental Science Center
Mary Lynn Wilhere - Alliance for the Chesapeake Bay

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.

Joel E. Baker - Chair, University of Maryland
Joseph Beaman - MD Department of the Environment
Daniel J. Fisher - University of Maryland
Robert Hoke - E.I. DuPont DeNemours & Company
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 and Company- Spruance Site
Kelly Shenk - US Environmental Protection Agency
David Velinsky - Academy of Natural Sciences

Urban Storm Water Workgroup - Joint Toxics and Nutrient workgroup formed in 2001. See page 46.

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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Baltimore, MD 21212
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fax: (410) 377-7144
e-mail: jtrask@acb-online.org

Citizens Advisory Committee Membership

Roy A. Hoagland - Chair, Chesapeake Bay Foundation
Julie Trask - Coordinator, Alliance for the Chesapeake Bay
Nancy Alexander - Citizen
Carl Cole - Management Consultant
Jim Elliott - Hunton & Williams
Rob Etgen - Eastern Shore Land Conservancy
J. Carter Fox - Shaw, McLeod, Belser & Hurlbutt, Inc.
C. Victor Funk - PA Department of Environmental Protection, Retired
Kathleen W Glaser - St. Mary's College of Maryland
J. Andrew Hadley - Proctor & Gamble
Verna Harrison - The Keith Campbell Foundation for the Environment
Patricia Levin - Adjunct Professor, Franklin and Marshall College
William Martin, Jr. - US Patent Office, Retired
Katie McHugh - MD State Builders Association
Jack Nelson - US Department of Agriculture
Steele Phillips - Citizens Advisory Committee
Andrew A. Protogyrou - Protogyrou & Rigney
Betsy J. Quant - Canoe Susquehanna
John E. Tankard, III - Tankard Nurseries
Lina Vlavianos - Severn River Commission
Al Wenger - Agriculture Policy Consultant
Jack J. Whitney, Jr. - VA Beach Department of Agriculture
John McNeil Wilkie - Tatum CFO

CAC Young Delegates

Melanie Allen - Citizen
Colleen Haney - Dickenson College
Jayni Shah - University of Maryland, College Park

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 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.*

LGAC is responsible for communicating both with the Executive Council in its advisory capacity and with local governments throughout the Bay region. 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

Mark Thompson
Project Manager
International City/County Management Association
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Maureen Tooke
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International City/County Management Association
777 North Capitol Street, NE, Suite 500
Washington, DC 20002-4201
voice: (202) 962-3633
fax: (202) 962-3500
e-mail: mtooke@icma.org

Local Government Advisory Committee
Executive Subcommittee
Ellen Moyer, Chair, Mayor of Annapolis
Sharon Pandak, VA Vice-Chair
Phyllis Kilby, MD Vice-Chair
Harry Stokes, PA Vice-Chair
Ted Pochter, DC Vice-Chair

Local Government Advisory Committee Membership

LGAC members represent 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.

Maryland
Phyllis Kilby- Cecil County Commissioner
Raymond L. Langston - Mayor of Highland Beach
Ellen Moyer- Mayor of Annapolis – Alternate: Steve Carr
J. Harry Norris III- Mayor of Leonardtown – Alternate: Laschelle Miller
Marilyn Praisner – Montgomery County Council – Alternate: Nancy Dacek
James Purnell, Jr.- Worcester County Commissioner

Virginia
William Beck – Mayor of Fredericksburg – Alternate: Erik Nelson
Jerry Hyland – Fairfax County Board of Supervisors
Julia Major – Accomack County Board of Supervisors
Sharon Pandak – Prince William County Attorney
Peter Schmidt – Virginia Beach City Council

Pennsylvania
Robert C. Gerhard, Jr.- Commissioner, Cheltenham Township
Edward Goodhart, III – PA State Association of Township Supervisors – Alternate: James Wheeler
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 – Alternate: Sheila Besse
Ted Pochter- Department of Parks and Recreation
William Rumsey, Jr.- Council of the District of Columbia

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.

Staff Contact

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Chesapeake Research Consortium
645 Contees Wharf Road
Edgewater, MD 21037
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fax: (410) 798-0816
e-mail: bugg@serc.si.edu

Scientific and Technical Advisory Committee Structure

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

Scientific and Technical Advisory Committee Membership

Carl Hershner - Chair, VA Institute of Marine Science
Denise Breitburg - Vice Chair, Academy of Natural Sciences
Mary Beth Adams - US Forest Service
Joseph Bachman - US Environmental Protection Agency
Donald Boesch - University of Maryland Center for Environmental Science
Rob Brumbaugh - Chesapeake Bay Foundation
Eugene Burreson - VA Institute of Marine Science
Edward Graham - Metropolitan Washington Council of Governments
Thomas Grizzard - Virginia Tech
Kirk Havens - VA Institute of Marine Science
Bruce Hicks - National Oceanic and Atmospheric Administration
Edward Houde - University of Maryland Center for Environmental Science
John Keene - University of Pennsylvnia
Michael Kemp - University of Maryland Center for Environmental Science
Waldon Kerns - Virginia Tech
Gerrit Knaap - University of Maryland National Center for Smart Growth
Ronald Korcak - USDA Agricultural Research Service
Jonathan Kramer - MD Sea Grant College Program
Les Lanyon - Penn State University
Douglas Lipton - University of Maryland
James Lynch - Penn State University
Gary Matlock - National Oceanic and Atmospheric Administration
Saied Mostaghimi - Virginia Tech
Scott Phillips - US Geological Survey
Jonathan Phinney - National Oceanic and Atmospheric Administration
Clifford Randall - Virginia Tech
Bill Rickards - VA Sea Grant College Program
Greg Ruiz - Smithsonian Environmental Research Center
Larry Sanford - University of Maryland Center for Environmental Science
Kevin Sellner - Chesapeake Research Consortium
Martin Shields - Penn State University
Thomas W. Simpson - University of Maryland
Puneet Srivastava - Academy of Natural Sciences
Richard Weismiller - University of Maryland

Scientific and Technical Advisory Committee Alternates

Gary Felton - University of Maryland
Roger Newell - University of Maryland Center for Environmental Science
David O'Brien - VA Institute of Marine Science
Catherine O'Riordan - American Geophysical Union
Andrew Sharpley - USDA Agricultural Research Service

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.

Carl Hershner - Chair, VA Institute of Marine Science
Denise Breitburg - Vice Chair, Academy of Natural Sciences
Jonathan Kramer - MD Sea Grant College Program
Les Lanyon - Penn State University
Jonathan Phinney - National Oceanic and Atmospheric Administration
Clifford Randall - Virginia Tech
Kevin Sellner - Chesapeake Research Consortium

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 Sciences
Eugene Burreson - VA Institute of Marine Science
Carl Hershner - VA Institute of Marine Science
Edward Houde - University of Maryland Center for Environmental Science
Michael Kemp - University of Maryland Center for Environmental Science
Douglas Lipton - University of Maryland
Derek Orner - National Oceanic and Atmospheric Administration
Bill Rickards - VA Sea Grant College Program

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 Randall - Chair, Virginia Tech, retired
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 - National Oceanic and Atmospheric Administration
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 - Virginia Tech
John Keene - University of Pennsylvania
Waldon Kerns - Virginia Tech
Richard Weismiller - University of Maryland

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.

Scott Phillips - Chair, US Geological Survey
Mary Beth Adams - US Forest Service
Donald Boesch - University of Maryland Center for Environmental Science
Bruce Hicks - National Oceanic and Atmospheric Administration
Les Lanyon - Penn State University
James Lynch - Penn State University
Saied Mostaghimi - Virginia Tech
Larry Sanford - University of Maryland 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. Two committee members serve on the Budget Steering Committee for two-year terms, and the Federal Agencies Committee approves the federal members on STAC.

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. The Federal Agencies Committee is also responsible for coordinating the federal role in meeting the goals in *Chesapeake 2000.*

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Glenn Markwith - Commander, Navy Region Mid-Atlantic
Peter J. Marx - US Environmental Protection Agency
Reggie Parrish - US Environmental Protection Agency
Nelson Powers - Defense Logistics Agency
Mark Schoppet - National Aeronautics and Space Administration
Albert H. Todd - US Forest Service
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 120 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.

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Paige Weiss - VA Department of Historic Resources
Larry Williamson - PA Department of Conservation & Natural Resources

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.

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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
A.C. Carpenter - Potomac River Fisheries Commission
Frank Dawson - MD Department of Natural Resources
Rick Hoopes - PA Fish and Boat Commission
Edward Houde - University of Maryland Center for Environmental Science
Howard King - MD Department of Natural Resources
John O'Shea - Atlantic States Marine Fisheries Commission
Ira Palmer - DC Department of Health
Jack Travelstead - VA Marine Resources Commission

Chesapeake Bay Stock Assessment Committee – CBSAC cooperatively assesses fisheries resources in the Chesapeake Bay in order to improve regional information required for baywide stock assessments.

Philip Jones - Chair, MD Department of Natural Resources
Chris Bonzek - VA Institute of Marine Science
John Hoenig - VA Institute of Marine Sceince
Tom Miller - University of Maryland 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
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Douglas Vaughan - National Oceanic and Atmospheric Administration

Chesapeake Bay Fisheries Ecosystem Plan (FEP) Technical Advisory Panel - The panel, led by the NOAA Chesapeake Bay Office, 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.

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Bob Wood - National Oceanic and Atmospheric Administration

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.

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Rob Latour - VA Institute of Marine Science
Tom Miller - University of Maryland Center for Environmental 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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DIRECTIONS TO THE CHESAPEAKE BAY PROGRAM OFFICE (CBPO)

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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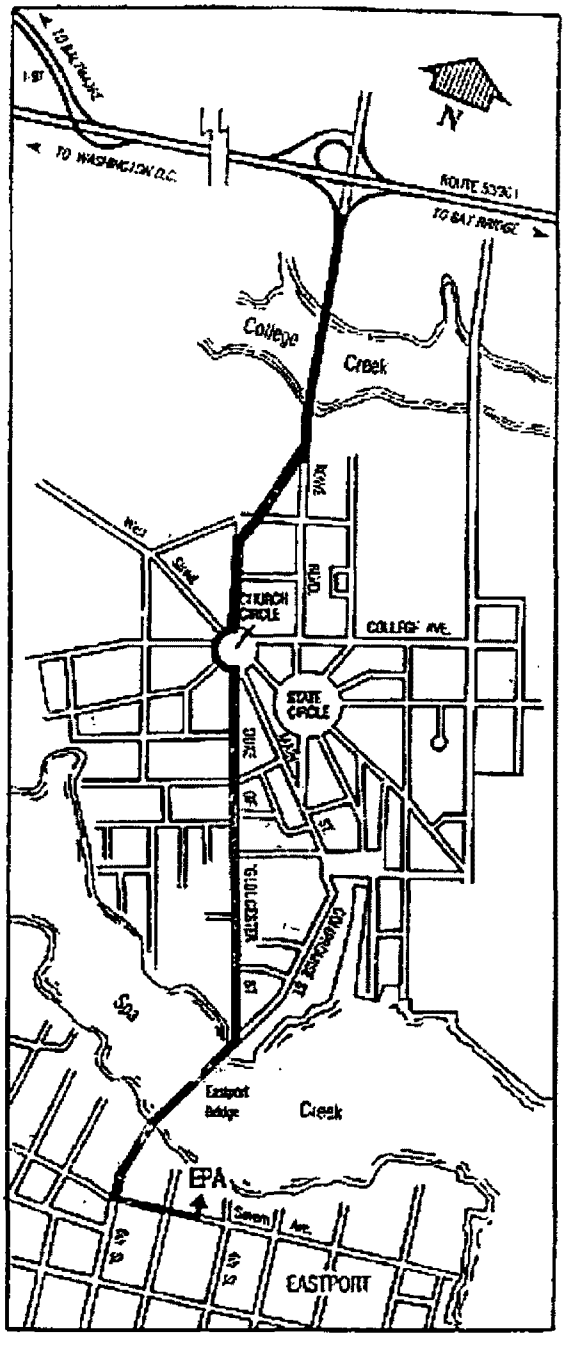

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