

# Citizens Advisory Committee TO THE CHESAPEAKE EXECUTIVE COUNCIL



*Diverse Voices Unified for the Chesapeake*

**2012 REPORT TO THE  
CHESAPEAKE EXECUTIVE COUNCIL**  
July 9, 2012



# **Citizens Advisory Committee to the Chesapeake Executive Council**

## **2012 Annual Report of Recommendations**

(Issued June 25, 2012)

### **Executive Summary**

As a result of our quarterly meetings within the signatory jurisdictions over the past year – hearing from a variety of federal, state and local representatives, as well as NGO and representatives of industry and business within the watershed, the Citizens Advisory Committee provides the following Executive Summary to the Executive Council of Suggested Priorities/Recommendations for 2012/2013:

#### **Citizen Engagement:**

- **Educate Our Youth – The Future Stewards of the Watershed:** Environmental Education will engender the next generation of citizen stewards with the knowledge and skills to make informed environmental decisions. (page 5)
- **Public Access to the Bay and Rivers –**Less than 2% of the 11,600 miles of tidal shore is publicly accessible: Provide more high quality access points to the rivers and Bay to inspire the citizens to care about and protect their local waterways. (page 7)

#### **Accountability:**

- **Success of the Bay TMDL partially hinges on Nutrient Trading- Trust but Verify:** The cost savings potential of trading could reduce the financial burden of TMDL implementation, but accountability and local water quality must be strong principles of the program. (page 9)
- **WIPs and 2 Year Milestones – Verify Results and Report Implementation:** Maintain a strong commitment to transparency, enforcement, and informing the public. (page 10)

#### **Beyond Water Quality:**

- **The General Public Care about Clean Water for Drinking, Swimming and Fishing – NOT TMDLs:** Garner more public support for watershed recovery by setting goals for restoration of fisheries, living resources and habitats, and stewardship. (page 11)

## **Introduction**

Since the Executive Council's July 11, 2011 meeting the Citizens Advisory Committee (CAC) to the Chesapeake Executive Council (EC) has met in each of the signatory jurisdictions to discuss restoration progress and challenges, Chesapeake Bay Program (CBP) accountability, the TMDL Watershed Implementation Plans (WIPs), water quality nutrient trading and the importance of citizen engagement in the restoration process.

The Citizens Advisory Committee's main role is to offer citizen voice and perspectives. CAC's focus has been to monitor and review the Bay Program's progress toward achieving the goals and plans to improve and protect the Chesapeake Bay's waters, from the rivers and watersheds that drain into the Bay itself. Although there are many talented watershed organizations and coalitions that also track this progress and act as agents of valuable change, CAC is unique within the formal Bay Program structure. Its membership includes stakeholders representing homebuilding industry, agriculture, environmental and business interests from throughout the watershed. We can provide you with general viewpoints of the stakeholders we represent. This rich, diverse membership gives CAC its strength as a formal Bay Program committee whose advice is based on enriched dialogue of different interests and experiences, rather than a singular point of view.

The CAC members share a common interest— the desire to see measurable restoration progress. We hold the Bay Program accountable on questions such as: How far along are we in implementing the clean-up plans? How do we remove obstacles to progress? What is the plan to do so? CAC uses its formal role as an advisory team to ask these tough questions, thereby encouraging accountability and transparency.

CAC has a long history of involvement in the major Bay Agreements and Commitments. Today, the primary tools for tracking and implementing the Bay Program's progress toward a cleaner Bay are the jurisdictions' Watershed Implementation Plans and the Two-Year Milestones established under the TMDL. Holding the EPA, the jurisdictions and the Bay Program accountable for these commitments and those of legal structures, such as the Clean Water Act, is critical to the restoration efforts. Since CAC believes an educated and well-informed citizenry leads to one that is also actively engaged and supportive, transparent and timely reporting on restoration activities will be critical to achieving the goals.

Citizens and communities respond to the call for clean drinking water, natural areas for recreation, safe public access to rivers, a bounty of good seafood and strong fisheries, forests and wetlands. They also look for sustained property values, healthy food sources and stable jobs. In the end, the strength of all of these elements can be connected to clean rivers and streams and an ecosystem that is healthy and improving, rather than degraded. They are essential to quality of life and our ability to have desirable places to live, work and play. As your citizen advisors, we appreciate that substantial progress towards the Bay restoration has occurred and we recognize the many persons, organizations, agencies and other interests who have made a difference. We also acknowledge the additional work ahead. In that regard, we take our volunteer time seriously to watch over the progress being made on the aspects of the restoration effort that can foster and strengthen the health of our ecosystem and that quality of life.

CAC also highlights the partnership's successes and endeavors to offer a broader citizen perspective of key issues CAC feels are important. Our perspective is often sought by Bay Program partners. We strive to offer the program partnership meaningful insights and suggestions that can be translated into policy changes or concrete actions. This 2012 annual report of recommendations focuses on topics CAC has discussed at its meetings: **Citizen Engagement, Accountability, and Looking Beyond Water Quality.**

We continue to recognize the hard work of the Chesapeake Bay Program partners and their willingness to meet with us and provide regular updates and dialogue. We offer the following recommendations and would welcome the opportunity to brief the Executive Council members or Principals Staff Committee during the course of the year.

## **Recommendations**

### **ENGAGING CITIZENS THROUGH ENVIRONMENTAL EDUCATION AND CONSERVING AND ENJOYING LOCAL STREAMS AND RIVERS AND NATURAL AREAS**

As we have stated before, CAC believes citizen engagement is a crucial but often overlooked component to restoration success. Since the Bay Program was first established, billions of dollars have been invested in restoration projects – but only a small fraction of the funding has been invested in initiatives to engage and educate citizens, particularly the next generation of citizen stewards. Environmental education both in the formal education system and through informally connecting families to nature such as public access to the local rivers and land conservation are essential to better engage citizens in restoring protecting and sustaining

the watershed for the future. Adding conservation learning to our education system and providing additional and improved access to local streams, rivers and the Bay gets the community engaged in caring for natural resources and is a catalyst for communities to support their local governments to protect water quality and living resources and to recognize that the Bay and its local tributaries can be economic and recreational assets as well.

**Formal Environmental and Outdoor Education:**

We commend Governor O'Malley for establishing the Maryland Partnership for Children in Nature and the Maryland State Board of Education for approving an environmental literacy graduation requirement, ensuring that every Maryland student receives a comprehensive, diverse environmental education before graduation from high school. We urge all the States in the watershed to follow Maryland's example. We also urge the Executive Council to build upon its previous commitments to environmental education by taking the following actions:

- 1) Encourage the Secretary of the U.S. Department of Education to sign a formal Memorandum of Understanding (MOU) with the Bay Program to actively support the environmental education efforts of the State and local education agencies in the watershed. The U.S. Department of Education has many types of assistance such as formula and competitive grants which can be helpful, but it is one of the few Federal agencies which has not signed a commitment to assist and collaborate in the restoration and protection of the Watershed.
- 2) Establish two year milestones for achieving the environmental literacy for all students in the watershed.

- 3) Approve the *Mid-Atlantic Elementary and Secondary Environmental Literacy Strategy*, developed by NOAA in partnership with the States. This report contains important strategies, goals and outcomes to provide the next generation of citizen stewards the knowledge and skills they need to make informed environmental decisions.

### **Public Access and Land Conservation**

Over the years we have learned that citizen involvement with and commitment to the health of the Chesapeake and its tributaries is greatly affected by personal contact with the rivers and the Bay. But discovering the Bay and even local rivers and streams is still a challenge for most people. Even today less than two percent of the 11,600 miles of tidal shoreline is publicly accessible and that access is often limited to those who own boats. Expanded land conservation efforts - particularly landscape-level conservation along the shorelines of the Chesapeake and its tributaries – helps not only to engage citizens in stewardship because of the potential it offers for new public recreational access to the waterways of the Chesapeake, but also provides important habitat and water quality benefits.

Land conservation with associated new public recreational access areas such as camp sites, parks and wildlife management areas, open spaces, and canoe and kayak launches enhance access and preserve the watershed's special places. They engender a community to support their local governments and other elected officials to make decisions that protect water quality and living resources.

In this regard, the CAC has urged the Secretary of Interior to designate the Chesapeake and its Great Rivers as a Land and Water Conservation Fund Landscape Collaborative and to provide funding in the Fiscal 2014 budget to support landscape-level conservation in the watershed. **We encourage the Executive Council to do the same by providing funding for landscape conservation in the Bay watershed.** Chesapeake Executive Order 13508 calls for the Department of Interior and its agencies to play a leadership role in the conservation of an additional 2 million acres of land in the watershed and the creation of 300 new public access areas by the year 2025. To achieve these goals, the Department must provide the resources needed to support the long-standing, collaborative, community-based conservation efforts and priorities of the federal, state, local and NGO partners engaged in land conservation and public recreation in the region.

In keeping with our recommendation that the Secretary of the US Department of Education sign an MOU with the Bay Program, we believe that the Directors of the Bureau of Land Management and the Office of Surface Mining should do likewise. Both of these U.S. Interior Department Agencies have an important presence in the watershed or programs which contribute to conservation, recreation, or water quality improvements in the watershed, but presently do not have a formal seat at the table of partners assisting in restoration.

We commend the Executive Council for achieving the land conservation and public access goals established in Chesapeake 2000, but much more work needs to be done in this area. We encourage you to expand upon the current 2 percent of the watershed's shoreline which is publicly accessible and establish new goals for land conservation and public access – goals



which offer all citizens opportunities to enjoy the Bay, its rivers, forests and other natural features and at the same time help protect the water quality and habitat of the watershed in the face of an ever growing population. As the Conserving Chesapeake Landscapes Report released by the Chesapeake Bay Commission and the Chesapeake Conservancy in December 2010 pointed out, “The lands of the Chesapeake hold the key to the environmental health and economic well-being of our region. The Bay’s land-to-water ratio — 2,800 square meters of land to every one cubic meter of water — is the largest of any coastal body in the world. How we use and protect these lands is the single most profound factor affecting the Bay’s water quality, the 110,000 miles of creeks and rivers flowing into it, the myriad of living resources that depend on it, and the quality of life of the 17 million people who live around it.”

## **ACCOUNTABILITY**

### **Water Quality Nutrient Trading:**

**We strongly recommend full transparency, verification and public involvement in the jurisdictions’ water quality nutrient trading programs.** We acknowledge the fiscal challenges to meeting the TMDL goals and that market-based solutions may have a role in making the restoration less costly. As you know a recent economic study on nutrient trading by the Chesapeake Bay Commission shows there is *potential* for significant cost savings provided there is stringent BMP verification, local water quality protection, and a measurable and enforceable cap and taking into account conservative assumptions such as 2:1 trading ratios and high transaction costs. Last year, we were pleased to know that EPA was undertaking a review of the nutrient trading programs and encouraged the EPA to include a close look at credit baselines, trading ratios, protocols for transparent monitoring of state programs as they are components of

the state WIPs, as well as the effectiveness of traded BMPs. We would like to thank EPA for their work in this review. Transparency in reporting and accountability will be extremely important if trading is to gain greater acceptance by the Bay watershed public and stakeholders. **To that end, CAC reiterates its recommendation that the states and EPA, at a minimum, use the two-year milestones or the annual EC meetings to report on progress made to address the issues included in the EPA state reviews as well as other issues (such as local water quality protection) raised by numerous stakeholders.**

We are hopeful EPA's *Trading and Offsets Assessments and Workplan* will effectively address assessment findings; provide oversight such as reporting, NPDES permit review, and compliance assurance strategies review; guidance through technical memoranda for jurisdictions such as baseline validation, protection of local water quality, ratios, MS4s, and verification; and outreach, education, and integration. While we acknowledge that trading offers promise, CAC strongly believes the primary goal of the water trading program must be water quality protection. We also believe that it will be difficult to build or sustain support in upstream communities to take actions to improve the Bay's health unless these actions also produce significant local water quality improvements. Any inter-jurisdictional nutrient trading system must be mindful of this reality, as the greatest potential for generating low-cost credits will largely be in downstream communities.

#### **Watershed Implementation Plans and Two-Year Milestones:**

The Citizens Advisory Committee has closely followed the development of the Bay TMDL and the Watershed Implementation Plans (WIPs). CAC believes it is very important to show the

public the incremental progress and success stories associated with these efforts and allow for citizen engagement in implementation of the WIPs. **We recommend that each partner provide a short summary at each Executive Council meeting of its progress in meeting reductions of pollution from their top five loading sources. The summary should include areas where they are falling short of their goals along with an explanation of measures that will be pursued to address the gaps.** Additionally, in order to gain and maintain public trust in the work of the partnership, the WIPs must be enforceable *and* enforced. This will be especially important as the current efforts are focused on implementing practices and upgrades that may not show up in immediate improvements for some years ahead. **Therefore, we recommend that the partners include specific mention of ways they are improving the enforcement component of their work.**

### **BEYOND WATER QUALITY**

We acknowledge the enormous amount of effort being undertaken by Bay Partners, including local governments, on the TMDL and Watershed Implementation Plans. We understand that improved water quality is paramount to the Bay's restoration. In addition, CAC would also like to repeat that we strongly support a full ecosystem approach to restoration that incorporates measureable goals for habitat, fisheries, living resources and citizen stewardship. Technical topics like TMDLs and WIPs do not easily resonate with average citizens, but fishable, swimmable, drinkable water does. We also recognize that many water quality improvement projects contribute to meeting the broader set of restoration targets and urge that states and localities give priority to water quality improvement actions which achieve multiple benefits for the Bay watershed environment. We are hopeful that a healthy ecosystem plays a critical role in

informing your thinking about the future of the Chesapeake Bay Program and discussions of a renewed set of Chesapeake Bay goals.

### **ISSUE OF CONTINUED CONCERN**

For many years we have advised the Executive Council of our continuing concern about the build-up of sediment behind the Conowingo Dam. We believe it is important to remind you that according to the U.S. Geological Survey's estimate, the dam's storage capacity will be full around the time of the 2025 goal for putting practices on the ground. We think this has particular impact this year, the 40<sup>th</sup> Anniversary of Hurricane Agnes, as we reflect on the massive damage caused by scouring during that weather event. **As you discuss the needs for public and federal funding to meet the TMDL, we recommend that you consider the cost of inaction in addressing sediment storage behind the Conowingo Dam.**

In conclusion, as your citizen advisors, we continue to see strong public desire for improvement in the health of this national treasure and broad support for Bay watershed restoration. A restored Bay watershed represents not only an ecological treasure, but also a key to our regional economy and quality of life.

## **CITIZENS ADVISORY COMMITTEE BACKGROUND**

The Chesapeake Executive Council (EC) established the Citizens Advisory Committee (CAC) in 1984 to provide non-governmental perspective, advice and guidance to the Chesapeake Bay Program with respect to Chesapeake Bay Program policies. CAC is composed of 29 members and 4 Young Delegates representing diverse professional and educational backgrounds, yet all dedicated to improving the health of the Bay.

CAC members constitute 12 gubernatorial appointments from the States of Maryland, Virginia and Pennsylvania; 4 mayoral appointments from the District of Columbia; and 12 At-Large appointments made by the Board of Directors of the Alliance for the Chesapeake Bay. This ensures diversity among CAC membership. Each signatory jurisdiction is responsible for selecting a young individual to be a non-voting CAC Young Delegate and bring a new perspective on Bay issues. The Delegates contribute to CAC deliberations, as well as periodically complete a specific project of their own, focused on a Bay priority.

CAC meets quarterly, traveling around each signatory jurisdiction to address different priorities. CAC submits an Annual Report of recommendations to the Chesapeake Executive Council. CAC engages Chesapeake Bay Program staff, State representatives and staff, technical committees, and numerous stakeholders. CAC has placed priority on monitoring the progress toward achieving the goals of the Chesapeake Bay and rivers restoration effort. The past few years CAC has focused its recommendations in the areas of Water Quality, Accountability, Accelerating Implementation, Living Resources, and Citizen/Community Engagement by actively tracking the progress of the jurisdictions' 2- year milestones, the Bay Total Maximum Daily Load (TMDL) and the development of the Watershed Implementation Plans.

CAC members communicate with their constituencies to increase understanding of the programs and policies to restore and protect the Bay. The membership is broad-based with representatives from agriculture, academia, builders, business, civic groups, conservation, environmental foundations, finance, industry, and law. **CAC's primary purpose is to provide a non-governmental perspective on the Bay restoration effort and the effect Chesapeake Bay Program policies** have on people who live and work in the Chesapeake Bay watershed.

## **2012 CAC MEMBERSHIP**

### **MARYLAND**

**Andrew Der:** Andrew Der is an Associate and Director of Environmental Services at Whitman Requardt & Associates, LLP head office in Baltimore and practiced in the consulting industry since 2001, previously completing 17 years of service at the Maryland Department of the Environment where he left as a manager in the Wetlands and Waterways Program. Mr. Der specializes in water resources regulation and restoration including compliance, permitting, feasibility studies, assessments, stormwater management, erosion and sediment control, wetland regulation, stream/water quality monitoring, watershed restoration, NEPA, NPDES, and TMDL. Mr. Der also teaches seminars, publishes industry-related articles, a member of several industry and citizen advisory committees, and provides expert testimony.

**Verna Harrison:** Verna serves as the Executive Director of the Keith Campbell Foundation in Annapolis. She retired from the Maryland Department of Natural Resources after serving as Assistant Secretary for 20 years. Verna serves on the Executive Committee of CAC.

**Karen McJunkin:** Karen is a Regional Partner with Elm Street Development and has been responsible for directing land acquisition and development activities for over 20 years in Anne Arundel County, Charles County, and the Eastern Shore of Maryland. Karen has served as Secretary of the Board of Directors of the Home Builders Association of Maryland and is past President of the Anne Arundel County Chapter of the Association. She has also served on Governor O'Malley's Climate Change Commission and the Governor's Smart Growth Collaborative.

**Charlie Stek:** Charlie serves as Chairman of the Board of the Chesapeake Conservancy and as Policy Director of the No Child Left Inside Coalition. Previously, he served for 28-years on Capitol Hill primarily as a senior policy advisor and projects director for Senator Paul Sarbanes, advancing Chesapeake Bay and other initiatives.

**Nikki Tinsley:** Nikki was the Inspector General for the Environmental Protection Agency (EPA) from November 1998 until February 2006, when she retired after 35 years of Federal service. Ms. Tinsley is a Certified Public Accountant. Currently, she provides project management and consulting services to private and public entities; and, she serves as Chair of the Citizens Advisory Committee.

**Victor Ukpolo:** Victor is a Program Specialist for Montgomery County's Department of Environmental Protection's Waste Reduction and Recycling Section. He is a native of Baltimore City, Maryland graduated from Morgan State University and California State University, Los Angeles with a Bachelors Degree in Biology and Master's in Environmental Science and Engineering, respectively. He has just less than 10 years experience working for non-profits such as the Maryland DC Audubon Society and Clean Water Action as an environmental educator and community organizer. He has also interned with the California Department of Transportation as an environmental planner and the Los Angeles Regional Water Quality Control Board implementing NPDES storm water compliance regulations.

**Neil Wilkie:** Neil is a former Managing Director of the Davidson Capital Group, LLC. Prior positions since retiring as Vice Chairman of Morgan Guaranty International Bank include serving as Washington Area Managing Partner of Tatum CFO Partners and CEO of Eurotech, Ltd., a DC based public company involved in nuclear waste remediation. Neil now resides in Galesville, MD. Neil served as CAC Chair from 2006-2008 and as Vice-Chair of the Chesapeake Bay Blue Ribbon Finance Panel. Currently he serves as Maryland's Vice-Chair of the Board of Directors of the Alliance for the Chesapeake Bay and on the CAC Executive Committee.

## **PENNSYLVANIA**

**William Achor:** Bill is employed by York Ag Products Inc. a regional supplier of specialty ingredients and proprietary feed additives to the livestock and poultry industries. Bill has most recently worked as an international Director of Sales and Marketing for Protein Ingredients for Cargill, Inc. to the pet food and aquaculture industries. Bill served as the Vice Chairman of the Nutrient Management Advisory Board and the Chairman of the Alternative Manure Utilization and Treatment Sub-committee. He has served as a Governor's appointee to the Lower Susquehanna Basin Regional Water Resources Committee and the Renewable Agricultural Energy Council.

**John Dawes:** John is the Administrator for the Foundation for Pennsylvania Watersheds. He served as an alternate Commissioner on Governor Ridge's 21st Century Commission on the Environment and was part of a policy team for the Heinz Endowments Environmental Program. He serves on the Board of POWR – the Pennsylvania Organization for Watersheds and Rivers. John was Chairman of the PA Abandoned Mine Lands Campaign which was successful in getting the industry-supported funds reauthorization in Congress in 2006. John is an Angus breeder on his Huntingdon County farm. John serves as the Vice-Chair of CAC.

**Jim Elliott:** Jim is an attorney with Spilman Thomas and Battle, PLLC in their Mechanicsburg, PA office. He has over 15 years of experience practicing law with a focus on civil and criminal environmental matters. Jim has served as Chair of CAC from 2008-2010 and on the Bay Program's Budget Steering Committee. He now serves on the Executive Committee of CAC.

**C. Victor Funk:** C. Victor Funk is a retired Chief of the Nonpoint Source Management Division of the Pennsylvania Department of Environmental Protection. The Chesapeake Bay Executive Council awarded Mr. Funk the "Unsung Hero" award in 1992 for his support to the Bay Program and for promoting cooperation between agencies.

**Patricia Levin:** Dr. Levin is a Registered Nurse, Folklorist and Genealogist. Pat is currently an Adjunct Professor in American Studies at Franklin & Marshall College. An at-large appointment, she is active in planning and community issues in Lancaster County.

**Deborah Nardone:** Deborah is the Senior Campaign Representative for Natural Gas for the Sierra Club. Before joining the Sierra Club, she was a Coldwater Resource Specialist for the Pennsylvania Council of Trout Unlimited. She has her Masters in Environmental Pollution

Control with an emphasis on Water Quality from Penn State. For over ten years, she has worked in the environmental field in PA under non-profits such as the Chesapeake Bay Foundation and for Resource Conservation and Development Councils. She is a board member and founder of the Juniata Clean Water Partnership.

**Betsy Quant:** Betsy is the Operations Manager and Accountant for 3 family enterprises: Canoe Susquehanna (offering guided kayak & canoe trips throughout the Susquehanna River & Chesapeake Bay watersheds), Ironwood (providing installation & repair service for residential electrical, plumbing, water treatment, and heating systems), and Voyageur Farm (raising & selling grass-fed lamb and registered Katahdin breeding stock).

## **VIRGINIA**

**Nancy L. Alexander:** Nancy is a systems analyst specializing in banking institutions. She resides in Chesterfield County. She is a graduate of William & Mary with a BS in Biology. Her volunteer work with Ducks Unlimited and the Chesapeake Bay Foundation keeps her active in wetland conservation.

**Delegate John Cosgrove:** John A. Cosgrove represents the City of Chesapeake in the 78th House District. Elected in 2001, and now serving his fourth term in the Virginia General Assembly. Representative Cosgrove is also a member of the Chesapeake Bay Commission.

**Christy Everett:** Christy is the Virginia Director for the Hampton Roads Chesapeake Bay Foundation. Christy oversees CBF volunteer recruitment, restoration, outreach and advocacy programs in Hampton Roads. Prior to joining CBF in 2000, she coordinated the Tributary Team for Maryland's Eastern Shore under the MD Department of Natural Resources.

**Rebecca Hanmer:** Rebecca is retired from the U.S. EPA where she last served as the Director of the Chesapeake Bay Program. She currently serves on the Board of Directors for the Friends of Rappahannock and lives in Fredericksburg, VA.

**Stella Koch:** Stella resides in Fairfax County in Great Falls. She is the Virginia Conservation Associate at Audubon Naturalist Society. She is a founding member of the VA Environmental Network, later incorporated into the Coalition for Smart Growth. She serves on the Boards of the Center for Watershed Protection; the Potomac Riverkeeper and on the Environmental Quality Advisory Council to Fairfax County Board.

**Joseph Maroon:** Joe has over 30 years of experience working on Chesapeake Bay matters for state legislative and executive branch agencies and for one of the nation's largest regional conservation organizations. From March 2002 until January 2010, Maroon served as the agency director of the Virginia Department of Conservation and Recreation (DCR) where he oversaw a broad range of programs relating to Chesapeake Bay restoration. Previously, he served for over 16 years as the Virginia Executive Director of the Chesapeake Bay Foundation. He currently operates his own environmental consulting practice (Maroon Consulting LLC) in Midlothian, Virginia and serves as an adjunct faculty member at UVA where he taught a graduate course



focused on Chesapeake Bay Policy and as Virginia Senior Advisor for the Chesapeake Conservancy.

## **DISTRICT OF COLUMBIA**

**William Martin, Jr.:** Appointed by the District of Columbia, Bill is a retired Patent Agent with the US Patent Office. He is a member of the United States Coast Guard Auxiliary. A boat owner, Bill is active in boating, fishing and golf.

**Dan Milstein:** Dan is a Presidential Management Fellow with the Office of Policy and International Affairs at the US Department of Energy. As part of his rotation, he developed policy proposals on climate change issues under the White House Council of Environmental Quality. He has also worked as a Public Policy Consultant for clients such as the Cal Climate Action Partnership and the Center for International Policy.

**Angana Shah:** Angana is a development practitioner with extensive experience in Democracy and Governance issues through projects in the field as a USAID contractor and 2 years as a USAID Democracy and Governance fellow. She currently is a legal consultant for the International Finance Corporation/World Bank Group, Investment Climate Advisory Services.

Young Delegates:

**Elizabeth Burdick**, Annapolis, MD

**Adam Thompson**, Richmond, VA

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