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At the new SMART Bldg USMSM: U.S. House Majority Leader, Steny Hoyer; TPP Executive Director Bonnie M Green; U.S. Senator Ben Cardin



Honoring Women in Aviation program: Former Executive Director, NAWCAD Leslie Taylor, Heidi Fleming, Director for Navy and Marine Corps Programs, Lockheed Martin, and Barbara Bell, Ed.D., Capt. U.S. Navy (ret)



Jan Briscoe, President of the Board of Trustees for Historic Sotterley; Gwen Bankins, Secretary of Sotterley Board of Trustees and Sotterley descendant; Janice Walthour, Past president and current member of St. Mary's County NAACP; Lucile Walker, Executive Director of the Southern Maryland Heritage Area. Back row: Ed Rule, President NSi, and TPP board member, Michael Kent, renowned historian and former NAACP president of Calvert; Nancy Easterling, Executive Director of Sotterley.

DEVELOP + CONNECT + ACHIEVE

TPP Connects the Dots

TPP is a non-profit member organization that expands collaboration between government, industry, and academia to advance education, science, technology, and technology transfer. We are engaged in STEM outreach and workforce development in a variety of ways. Our work and outreach support economic growth in Southern Maryland.

The Patuxent Partnership (TPP) creates opportunities for our members. We do this through our programs, forums, panels and other activities. Members make connections, share ideas, learn about programs and explore new opportunities.

Connectivity: The energy that is created between people when they feel seen, heard and valued. Brene Brown

In 2022 TPP returned to in person programs. TPP is all about connecting people and organizations and getting together again has reenergized our activities. Networking and face to face meetings are an important part of who we are and what we do. We listen to you, our members to decide on programs and speakers. From the War for Talent to NAWCAD Industry Days, to the ever expanding AeroPark, we are focused on keeping you, our members, informed, engaged, and connected.

We collaborate with academia to increase STEM education, support future engineers and physicists, engage elementary and middle school students in robotics camps, and high school STEM students to the Junior Science and Humanities Symposium. We work to expand our workforce.

Our Partnership Intermediary Agreement (PIA) with NAWCAD supports their mission and keeps our members and our ecosystem informed and connected. We support Naval X, TechBridges, TechPort, and introduce new organizations to what is happening in Southern Maryland and at Pax River.

Our Educational Partnership Agreement (EPA) with NAWCAD and St. Mary's College of Maryland (SMCM) has been in effect for more than ten years. The EPA supports research, STEM activities, and internships; from applied physics to human factors, SMCM faculty and staff are engaged with NAWCAD and the community. NSWC Indian Head connections are increasing and we look to new opportunities for TPP and our members, as we increase our involvement with Indian Head and Pax River.

CSM plays a critical role in educating residents in Southern Maryland. The TPP Pathways Scholarship at CSM supports mechanical and electrical engineering. This \$10,000+ annual commitment covers two full scholarships. One of the scholarship requirements is that students agree to apply to the UMD Engineering programs taught here in Southern Maryland. At present most of the graduates ultimately go to work for the Navy at Pax River, and TPP is working to increase that pipeline.

The TPP weekly e-newsletter is one more way we keep our members connected, not only locally, but across the country and beyond. The more we keep our members informed, the greater the opportunities.



A Message from our executive director

Dear TPP Members, Friends, and Colleagues,

FY22 has had a sense of coming back to the beginning, coming home as it were. After adjusting to an evolving new normal, we are engaging in person with one another again. It is a joy to see this at our programs. COVID is not going away and will continue to evolve. TPP will do likewise, as we have learned how to move forward despite the challenges.

This has been a year of reengagement, identifying new opportunities, making new connections, and focusing on what we can do for our members, the Navy, and our community. Sea-Air-Space presented a wonderful venue to reconnect and to make new acquaintances. It also was a great place to identify topics of interest to our members, and meet potential speakers.

During the past year, TPP has developed a relationship with the

Charleston Defense Contractors Association (CDCA). CDCA is very much engaged with the DOD community in Charleston and many of their members are also TPP members. You can learn more about their events in the TPP newsletter. Some of our members are working with the Navy in Charleston which is a valuable connection. We continue to cooperate with the Fort Meade Alliance. Like CDCA, it is a valuable connection. We continue to collaborate with and support Leadership Southern Maryland, stay engaged with the St. Mary's County Chamber of Commerce, and remain focused on expanding our network and our impact.

Our Education Partnership Agreement (EPA) with St. Mary's College of Maryland (SMCM) and

NAWCAD, focused primarily on the classic sciences. This agreement facilitates research work and internship opportunities. With the new business administration and marine science programs, there will be additional opportunities for us to collaborate with SMCM. A number of students complete internships with NAWCAD, leading to career opportunities at graduation. This is the second year of our Patuxent Partnership Physics Scholarship at SMCM. The study of physics is of vital importance to the Navy. Two incoming SMCM students were each awarded \$5,000 scholarships.

Another activity supported by our EPA, is STEM-ING, led by NAWCAD. This one-day event, held at SMCM, introduces middle school girls to STEM careers. The Maryland Junior Science and Humanities Symposium (JSHS) was yet another opportunity to work with NAWCAD and SMCM under the auspices of our EPA. In addition to being awarded the 2021-2022 MD JSHS, TPP subsequently was asked to take on the Greater DC JSHS. We did that too, and it was a team effort. Students receive regional awards and go on to compete at the National JSHS.

Over the last several years we have expanded our outreach to include TechJobsRule (TJR), an apprenticeship program with the James A Forrest Tech Center (St. Mary's County Public Schools) and NAWCAD. TJR is in its fourth year, and 40 students will participate. Some of the TJR students go to work for these companies after they have completed their apprentice program. Others continue to pursue classroom and hands-on education.

Once again, the TPP Annual Dinner at the Pavilion in beautiful Historic St. Mary's City, was a highlight of the year. VADM Jeffrey Hughes, Deputy CNO for Warfighting Development N7, was our guest speaker. With over 300 member guests, our biggest gathering ever, attendees enjoyed time to talk with friends during a beautiful evening, overlooking the St. Mary's River. VADM Hughes spoke about his work and naval aviation in his remarks after dinner.

St. Mary's County is ever changing. If you have any doubt, enjoy a visit to the AeroPark Innovation District, the SMART building, at USMSM, the SMCM Campus, or any number of other destinations. Our region continues to grow, evolve, and move forward, and improve our already wonderful quality of life. It is all about change. No one claims to like change, but we appreciate the results.

We will be working with the Southern Maryland Navy Alliance (SMNA) over the next year on a workforce development initiative aligned with Southern Maryland 2030. It will include internships, expanding our apprentice programs, and other ways to grow our STEM workforce pipeline. You will be hearing more about it and look forward to your participation.

Working with all of you across government, industry and academia is the heart of our mission. Thank you for your faith in TPP, and for your ongoing support. It is a privilege that we do not take lightly. We look forward to the coming year, full of challenges, surprises, and opportunities.

Bonnie M. Green

Bonnie Marie Green Executive Director Raymond J. Werrecht

Ray Wernecke President, Board of Directors

OUR MEMBERSHIP

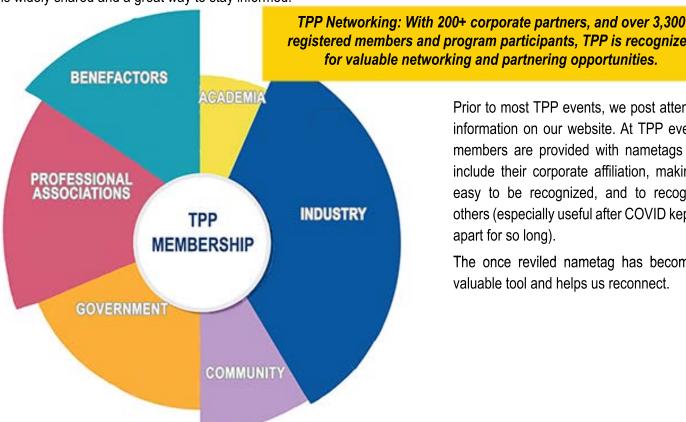
We say it again and again, and we mean it. TPP is all about you, our members. We are here to support you and to work with you. Whether your interest is in programs focused on naval aviation or technology innovation, apprenticeships, internships, or workforce retention, TPP has something of interest to you. Our members are involved in community support and value cultural events. Our members can be found at the River Concert Series of the Chesapeake Orchestra, led by Maestro Jeffrey Silberschlag, at SMCM. They are at Historic Sotterley, St. Clement's Island Museum, Historic St. Mary's City, and the many historic and cultural venues where you can have fun and perhaps learn a little more Maryland history. You are invested in our community and in TPP, supporting our programs and activities, sponsoring events, sharing ideas, and making use of our valuable network. Your service as volunteer judges, reviewers, observers, and mentors contribute to the success of science fairs, STEM-ING, MD JSHS and many other activities. We could not do it without you. And, you let us know what is important to you. Constructive feedback helps us better serve you.

Programs and Events

TPP members participate in member-only events and programs, including the TPP Annual Dinner and our Holiday Party. Members are offered reduced or free registration to TPP programs. TPP members are invited to sponsor programs including the TPP-ANA panels, our annual dinner, and full day programs. Your enthusiastic participation reflects the value you see in your TPP membership.

Publicizing Events and News Articles

Our Community Events Calendar and News section on the TPP webpage is a way for members to share information about events, and other relevant information. The widely read weekly TPP Newsletter, with over 4000 subscribers, includes information on TPP programs, NAWCAD and DOD, education resources, community activities, and more. Our newsletter is widely shared and a great way to stay informed.



registered members and program participants, TPP is recognized for valuable networking and partnering opportunities.

> Prior to most TPP events, we post attendee information on our website. At TPP events, members are provided with nametags that include their corporate affiliation, making it easy to be recognized, and to recognize others (especially useful after COVID kept us apart for so long).

> The once reviled nametag has become a valuable tool and helps us reconnect.

OUR BENEFACTORS

Our benefactors embody the mission and values of TPP. Benefactor membership in TPP is by invitation. Along with the membership opportunities listed previously, our benefactors receive additional benefits and visibility. These include prominently displaying Benefactor Corporate Logos on the TPP homepage, with a link to the Benefactor's webpage. Benefactor information is included on programs, the TPP annual report, our weekly newsletter and members are recognized at various TPP sponsored programs.

TPP Member of The Year Award

The Patuxent Partnership Member of the Year Award recognizes a corporate member that best exemplifies outstanding leadership, community support, and commitment to education and the economic growth and development of Southern Maryland. Bell received the TPP 2021 Member of The Year Award at our annual dinner, in May.

Previous TPP Member of the Year awardees include Whitney Bradley & Brown Inc. (WBB), Naval Systems, Inc. (NSI), Aviation Systems Engineering Company, Raytheon, HTii, Northrop Grumman Corporation, AVIAN LLC, and Lockheed Martin.

Candidates must demonstrate strength in business performance, employee culture, community affairs, and volunteer activities, to be considered for the award. Nominees must be TPP members in good standing for a minimum of a year. These companies add so much to TPP and to our communities.



































Center for the Study of Democracy

TPP and the Center for the Study of Democracy (CSD) at St. Mary's College of Maryland (SMCM) have a history of collaboration that goes back almost 15 years, jointly sponsoring and presenting programs of interest to our members and the broader community. Traditionally, we co-sponsor an annual Patuxent Defense Forum, a Patuxent Policy Group and other programs throughout the year, on issues ranging from foreign policy to national security, energy, the environment, and of course, national defense. While COVID kept us from in person programs for a time, we are once again working closely with the Center for the Study of Democracy on in person programs and speakers.

- In January Dr. Edward Foos, Senior Scientis at NSWC Indian Head, gave a briefing on Research and Development at NSWC Indian Head Division: Opportunities for Collaboration. Dr. Foos then visited the SMCM campus, where he met with students and toured labs.
- A brief COVID surge delayed, but did not impede, 'An Evening with Dr. Tom Nichols.' Dr. Nichols is a retired Professor of National Security Affairs, at the U.S. Naval War College, and discussed the implications of his book, "The Global Assault on Democracy," at SMCM. We were pleased with the large number of attendees, as well as the robust discussion after his remarks.
- In late September we held our 14th Annual Patuxent Defense Forum, "NATO's Expansion and the Implications for Global Security," a most appropriate topic. We were fortunate to have Admiral James G. Foggo, USN (Ret), Dean of the Center for Maritime Strategy, Navy League of the U.S., as our keynote speaker. Admiral Foggo contributed much to the discussion during the day, as well as providing closing remarks. Major General Bill Hix, U.S. Army (ret) led the morning panel that discussed NATO Expansion and Considerations on Implementation. Brigadier General Mark J Hovatter, Deputy Director for Operations, Joint Staff, J-3; Mr. Byron Callan, MD, Capital Alpha Partners and Dr. Katherine Kjellström Elgin, Fellow, Center for Strategic and Budgetary Assessments presented their perspectives. Mr. Benjamin Ledford, VP, Alqimi, briefed attendees on using Al/ML enabled OSINT Analytics to enable NATO's Information Advantage.

The afternoon panel on NATO Strategies and European Security was led by Dr. Matthew Fehrs, Associate Professor, SMCM. His Excellency Mr. Kristjan Prikk, Estonia ambassador to the U.S., Col. Juha Helle, Office of the Defense, Military, Naval and Air Attaché, Embassy of Finland; Alexander Crowther, PhD, Non-resident fellow, Transatlantic Defense and Security Program at Center for European Policy Analysis amd Dr. Michael Cain, Professor, SMCM and International Consultant on Energy Issues, were the panelists. There was lively discussion among the panelists, and the attendees contributed much to the conversation.

Association of Naval Aviation/Squadron #18

TPP has partnered with the Association of Naval Aviation's Squadron #18 (ANA) Patuxent River for more than 13 years, hosting over 40 panel presentations to date. Working with Mark "Stick" Converse is a privilege, and we are always thinking about the next panel. These panels focus on topics of critical interest to the Naval Aviation community. They present an outstanding opportunity to share the Navy's significant contributions and what is happening "inside the gate" with our members and others. The U.S. Marine Corps (MCAA) also participates in some of our panels. TPP member organizations sponsor the panels. ANA provides scholarships to local students, as does MCAA.

- Our TPP/ANA/MCAA Panel in October 2021 was a virtual one. The topic was **Innovation in Naval Aviation** and RADM Andy "Bucket" Loiselle, Director, Air Warfare Division, N98, served as the keynote and moderator.
- In December we had another virtual program, this time with TPP/ANA/THA. **Training Carrier Air Wings for the Peer Fight** was the focus, with keynote speakers: RDML Jeff 'Caesar' Czerewko, Director, Fleet Integrated Readiness and Analysis at FFC and RDML Max 'Pepper' McCoy, NAWDC.
- In March we were back to an in person program at the Patuxent River Naval Air Museum (PRNAM), our partner in these panels, and the discussion was all about NAVAIR--One Team One Fight: Delivering the warfighting capability the fleet needs to win, at a cost we can afford VADM Carl Chebi, Commander, NAVAIR was our keynote and moderator. He was joined by panelists Mr. Tom Rudowsky, Deputy Commander, NAVAIIR, Mr. Steve Cricchi, Executive Director, NAWCAD, Mr. Dan Carreno, Executive Director, NAWCAD and Mr. Roy Harris, Deputy Commander, Fleet Readiness Centers. It was a lively discussion and attendees enjoyed the networking before and after the panel.
- 'Navy International Programs: 'Expanding Global Aviation Partnerships for Integrated Deterrence' was the topic in May. Our keynote speaker was RDML Anthony "Tony" Rossi, Deputy Assistant, Secretary of the Navy, International Programs Office. (Panelists in photos at the right)
- We closed out FY22 in September with 'Naval Aviation Programs are Soaring.' We were fortunate to have VADM Francis D. "Spanky" Morley, Principal Deputy Assistant Secretary of the Navy (RD&A), as our keynote speaker. It was a full house.





TPP is focused on bringing speakers of interest to our members, with valuable knowledge to share.

- In February RADM (Ret) Sinclair Harris spoke on **Leadership**, **Mentoring**, **and Toxic Leadership**, to include Diversity, Equity & Inclusion. He talked about the value of DEI when you look at it through the lens of the War for Talent. RADM Harris made a lively discussion by calling on some of the attendees. For a short time, the audience experienced those moments in school when the students look down, hoping not to be called on by the teacher.
- In March,TPP Board Member Dr. Dale Moore, Founder and President of The Moore Group LLC, gave a briefing about the U.S. and China, "Responding to China's Existential Threat to Global Order Sustaining U.S. Leadership via Grand Strategic Thinking."
- Cybersecurity is a growing concern for the Navy, DOD, and across our personal and professional engagement. in August, we hosted "Cyber Challenges: Workforce and Data Security and How It Affects You! " cyber panel. We were fortunate to have Mr. Gregory Sleppy, SL, Director Cyber Warfare for Naval Aviation, NAVAIR gave opening remarks. Mr. Joe Billingsley, Military Cyber Professionals Association (MCPA): Ms. Heather McMahon, former Presidents Intelligence Advisory Board, RADM Shane Gahagan, PEO-T; and RADM Sandy Daniels, USN (ret), Space and STRATCOM, served as panelists. Mr. Sleppy joined them for the Q&A session, which was moderated by TPP member RADM Scott Sanders, USN (ret), ATG.

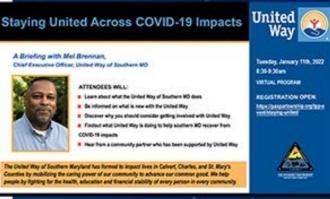
Other TPP Joint Programs

- We continued our **Southern MD Heritage series**: Part 2 Southern MD: Where Time and Tide Meet Piscataway Perspectives, in October with Ms. Lucille Walker, Executive Director, southern MD Heritage Area, and guest speakers Mr. Mario Harley, Vice Chair, Piscataway Conoy Tribal Council and Dr. Julia King, Professor of Anthology, St. Mary's College of Maryland focused on the history of this beautiful area.
- The third and final program in the **Southern Maryland Heritage series: Part 3** in November was a hybrid program, in person at Historic Sotterley and online. For the conclusion of the series Ms. Lucille Walker joined Ms. Janice Walthour, Past president and current member of St. Mary's County NAACP and Unified Committee for Afro-American Contribution and currently the Education committee chair for the St. Mary's County NAACP; Mr. Michael Kent, former commissioner on the MD Commission for African American history, former NAACP president for Calvert County, and renowned Calvert County historian; Ms. Gwen Bankins, Secretary of the Sotterley Board of Trustees and Sotterley descendant; and Ms. Jan Briscoe, President of the Board of Trustees for Historic Sotterley. They were accompanied by Ms. Nancy Easterling, Executive Director of Sotterley and Mr. Ed Rule, NSi, TPP Board member.

- Staying United Across COVID-19 Impacts (Virtual) with Mr. Mel Brennan, CEO of United Way of Southern MD January included 'Be informed on what is new at United Way'.
- TPP-WID Women's History Month program: TPP and the Chesapeake Bay chapter of the Women In Defense cosponsored a briefing with Ms. Susan DeGuzman, Director (acting), Engineering and Cyber Warfare Group, NAVAIR, on Leadership and Empowerment of Women. During this March program Ms. Susan DeGuzman talked about her career journey, and how being exposed to aircraft and various other motorized vehicles at an early age launched her interest in engineering and set her on her career path.
- AeroPark Innovation District Update: What's Happening at the AeroPark Innovation District, brought TPP members and the community up to date on what is happening in this growing and changing hub in St. Mary's County. Mr. Chris Kaselemis, Director, St. Mary's County Department of Economic Development, provided an economic overview. Mr. Ken Reed, Managing Member, S Hunt Aero, LLC, talked about Aeropark growth and the runway expansion. The Aeropark Terminal Renovation was provided by Ms. Allison Swint. Deputy Director, Transportation Division, Department of Public Works & Transportation. The A&P Requirements update was led by Mr. Tom Jarboe, President CEO, Airtech. Attendees also learned about the Southern Maryland Youth in Aviation Program, led by the East Coast Chapter Tuskegee Airmen, Inc (ECCTAI), SOMD Youth in Aviation Program (YIAP). TPP board member Mr. Matt Scassero, Director of Research, Innovation and Outreach, A. James Clark Engineering School at Univ of MD at USMSM shared what is going on at the SMART building. Last, but definitely not least, was an update on traffic and roadwork by Mr. Gary Whipple, St. Mary's County Dept of Public Works. Changes are coming.



Left to right: Mr. Matt Scassero, Mr. BJ Hall, Ms. Bonnie Green, Mr. Chris Kaselemis, Ms. Allison Swint, Mr. Tom Jarboe, Mr. Ken Reed, Mr. Gary Whipple











NAWCAD PROGRAMS

NAWCAD Industry Day

Through our Partnership Intermediary Agreement with NAWCAD, TPP supports NAWCAD Industry Day events. Industry Days are very popular with TPP members and the Pax River Community. They facilitate dialogue between representatives from NAWCAD experts, from programs to contracting provides important updates, including briefing by NAWCAD leadership, and attendance is well over 300 people.

- On October 27, 2021, TPP hosted a virtual NAWCAD Industry Day. Mr. Jeff Guarnero, Head, NAWCAD Procurement Group/CCO; Mr. Rick Tarr, Director, Tech Transfers Office and Southern Maryland Tech Bridge. Leadership Kick-Off: Mr. Steve Cricchi, Executive Director, NAWCAD; Digital Analytics Infrastructure Technology Advancement (DAITA) Group by Ms. Amy Markowich, DAITA Group Director; Mr. Chris Beard, DAITA Group Acquisition Manager, NAWCAD; Long Range Acquisition Forecasts (LRAF); Mr. Jeff Guarnero, Head, NAWCAD Procurement Group/CCO; Mr. Al "Bunky" Hensler, Division Head, Procurement Group; Technology Update Ms. Christina Allee, Rapid Prototyping, Experimentation and Demonstration, NAWCAD; AIRWorks; Ms. Christa Rodewald-Franz, Deputy Program Manager, AIRWorks, NAWCAD.
- ATE-22 BWUAS Industry Day March 17, 2022 (Virtual) Blue Water Logistics UAS (BWUAS) Project, Advanced Naval Technology Exercise (ANTX)/Test-Ex (ATE): CALL TO INDUSTRY featuring PMA-263; Military Sealift Command (MSC); Commander, Naval Air Forces Atlantic (CNAL); and the Naval Air Warfare Center Aircraft Division Rapid Prototyping, Experimentation (NAWCAD RPED) team.
- Updates from NAWCTSD and Central FL Tech Grove March 31st, 2022- (Virtual) Briefing: CAPT Dan Covelli, Commanding Officer, Naval Air Warfare Center training Systems Division NAWCTSD.
- NAWCAD Industry Day May 9, 2022- (In person) Mr. Jeff Guarnero, Head, NAWCAD Procurement Group/CCO; Kick-Off: RDML John Lemmon, Commander NAWCAD, Mr. Steve Cricchi, Executive Director, NAWCAD; Air Systems Group: Mr. William Reardon, SSTM, Executive Director, Air Systems Group; Mr. David Hartsig, Associate Director, Operations, Air Systems Group, Naval Aviation Systems Consortium (NASC) and OTAs: Ms. Carol Frisch, NASC Program Manager, NAWCAD; Long Range Acquisition Forecasts (LRAF) Mr. Jeff Guarnero, Head, NAWCAD Procurement Group/CCO; Mr. Al "Bunky" Hensler, Division Head, Procurement Group; Office of Small Business Programs (OSBP): Mr. Lawrence Butts, Deputy Director for Small Business, NAWCAD; Ability One: Mr. Matt Buchanan, National Institute for the Blind, Ms. Carla Goulart, SourceAmerica.

MEMBER OF THE YEAR: BELL

The Patuxent Partnership named Bell 2021 Member of the Year at our Annual Dinner in June.



Bell, a wholly owned subsidiary of Textron Inc. headquartered in Fort Worth, is one of the leading suppliers of military and commercial helicopters, tiltrotor aircraft, and related spare

parts and services in the world. It supplies advanced military helicopters and provides parts and support services to the U.S. Government and to military customers outside the United States.

Bell has supported the Southern Maryland business landscape through sponsorships, community participation, scholarships furthering aerospace professional development, and engagement with thought leaders. Bell's philanthropic initiatives focus on building meaningful partnerships and strengthening the communities in which our employees work and live. Their efforts include supporting schools and organizations engaged in STEM education related primarily to technology, engineering and innovation programs, veteran and military programs and health and human services.

Bell is a founding member of the St. Mary's College of Maryland Patuxent River Science and Technology Consortium which provides STEM scholarships and internships to St. Mary's College students on pathways to STEM careers. Bell participates in the St. Mary's College Career and Intern Fairs, recruiting and hiring SMCM graduates into our production centers of excellence in Fort Worth, and providing current students opportunities for summer internships in Fort Worth.

Bell is a strong advocate of the Marine Corps Aviation Association John Glenn Squadron, which bring together the defense, industry, and academic communities, help service members transition to civilian careers and raise additional money for STEM education, contributing funds for the annual STEM scholarship along with sponsorships for professional networking and fundraising events. Bell is active in the St. Mary's County Chamber of Commerce and sponsors events such as the Legislative breakfast, and attending Chamber events.

Bell supports southern Maryland's history and culture by participating and sponsoring events for Historic Sotterley, a National Trust of Historic Preservation site and the Chesapeake Orchestra River Concert Series at SMCM. Bell has also provided food to local food pantries and donated used office furniture to Habitat for Humanity's Restore reclaimed home goods store.

Bell works with the Pax River Naval Air Museum (PRNAM) to provide displays, information, and other assistance for the 2019 induction of V-22 #8, '8-ball', into the museum's permanent display.

Bell supports TPP through sponsorships, including the 2021 TPP Annual Dinner, TPP-Association of Naval Aviation (ANA) panels and other programs.

Bell supports Leadership Southern Maryland (LSM) events and programs and two employees have gratuated from attended the LSM Executive Program; one currently serves on the LSM Board of Directors.

Bell is committed to moving our employees and communities forward through employee-led campaigns, corporate giving, and volunteerism. Bell donates more than \$1 million annually, to over 100 charities and takes pride in supporting education and workforce development; veterans; military, commercial, and innovation programs; and health and human services.



Top photo 1. UMD STEM Engineering Camp at USMSM SMART Bldg 2. Thinkers' Space Camp a Leonardtown Middle Schoo 3. Camp Invention at St. Michael's School 4. LEAP Forward visited the Pax **River Naval Air Museum** DEVELOP*CONNECT*ACHIEVE

STEM EDUCATION INITIATIVES

The Patuxent Partnership is deeply engaged in education and workforce development. We know from our members and the Navy that developing our future workforce is of critical importance. Our strategic goals include increased STEM outreach and education initiatives, increasing the pipeline for engineering and other careers, and presenting programs that are valuable and important to our members and the broader workforce supporting NAWCAD and NAVAIR, and their professional development. The work TPP does across government, industry and academia also encourages economic development and the diversification of our Southern Maryland economy.

TPP has had an **Education Partnership Agreement (EPA) with NAWCAD and SMCM** for over eleven years. Our EPA supports research, internships, technology innovation, skilled trades and artisan programs, STEM-ING, the Maryland Junior Science and Humanities Symposium, and related areas. It includes supporting uncrewed systems education, outreach on camps, internships and other education activities, fostering opportunities at the AeroPark, and the highly valued apprenticeship program. Our work with the NAWCAD Strategic Education Office to advance these other STEM education and outreach activities, has increased participation and visibility.

TPP works with other nonprofit organizations, public and private schools in Southern Maryland, St. Mary's College of Maryland (SMCM), the College of Southern Maryland (CSM), and the University System of Maryland at Southern Maryland (USMSM), and the University of Maryland. We supported the Fort Meade Alliance on initiatives such as Project Scope, to educate students about security clearances. Security clearances are essential to many jobs at Fort Meade, at NAS Pax River, and across Maryland. The Fort Meade Alliance developed Project SCOPE to help students in high school and college, as well as transitioning workers and military veterans, to understand, navigate and master the security clearance process, as well as identifying situations and actions that could prevent someone from receiving a clearance. In addition to the military, individuals working in banking for the police and numerous State and local agencies, may need to obtain a security clearance. The Academy of Finance at Chopticon incorporates Project Scope security clearance education into the curriculum.

STEM related Initiatives: From 2006 through 2022, TPP has sponsored STEM based camps with St. Mary's County Public Schools (SMCPS). For many years it was a Summer Space Camp, with a focus on NASA and space exploration. More recently, there have been cyber camps, Tech Adventures Camps, incorporating aviation, rocketry, coding, robotics, space science and space citizenship, and other STEM oriented topics. This year TPP cosponsored a Thinkers' Space Camp, 2nd - 8th grade, hosted at Leonardtown Middle School, and provided bus transportation to NAWCAD hosted Camp Invention, pre-kindergarten to 7th grade, at St. Michael's School. TPP provided robotics kits for the UMD high school STEM Engineering Camp, which took place at the SMART building.

Leap Forward is a 501 (c) (3) that believes in serving underrepresented youth from diverse ethnic and underrepresented communities through programs, personal mentoring, and social and cultural enrichment activities. These include informational seminars, field trips, and educational support services that build self-esteem, academic excellence and a comprehensive awareness of STEM career options. Leap Forward helps to get scholarships for college. In August 2022, TPP planned a day in St. Mary's County for 15 students from Leap Forward. They toured the MATRIX labs in the SMART Building at USMSM and had the opportunity to tackle a few challenges. They visited the AeroPark where they had a view of aircraft and a few takeoffs, and learned about the Youth in Aviation program. Several of these students are now participating in Youth in Aviation. They visited the Patuxent River Naval Air Museum, where they learned about Naval Aviation, and had the opportunity to use the flight simulators. They also received a tour of NAS Pax River. Most of the students were unaware of these facilities and what happens at Pax River. TPP continues to create opportunities for students.

STEM EDUCATION INITIATIVES

Some of our members are familiar with **growingSTEMS**, **formerly known as The RoboBees**. It is a nonprofit education organization engaging students in robotics. Students from second grade to high school are involved in robotics and competitions. TPP has supported the Robobees for almost 20 years, during which time they have won over 38 different awards, including Chairman's Awards, Engineering Inspiration Awards, and Event Winners! Many of the current volunteers at growingSTEMS previously participated in The Robobees as students. Now, they are giving back. TPP Board Members have toured the HIVE, the growingSTEMS facility in Hollywood, MD, that is buzzing with activity. In FY2022 TPC contributed \$7000 to support their education programs and competitions! TPP benefactors Northrup Grumman and Boeing also support **growingSTEMS**.

In 2022 their RoboBees competed in the 2022 FIRST Chesapeake District Championship, one of the first full in-person FIRST robotics events in the Chesapeake region since March 2020, that brought together 60 FIRST Robotics Competition (FRC) teams from Maryland, DC, and Virginia. This was the 3rd win for the team this year, having already brought home the blue banners for 2 earlier qualifying events. They were the only finalists from Maryland and one of the top 3 teams in the Maryland, Virginia, and DC region.

STEM-ING is designed to introduce middle school girls to STEM-related careers. TPP has worked with NAWCAD in supporting the STEM-ING program since its inception. NAWCAD does most of the planning and provides many of the volunteers. As a partner and sponsor of this event, TPP acquires funding for the workshops, organizes other funding sources, engages benefactors and members, and recruits volunteers. This financial support is critical to the success and growth of STEM-ING. TPP provides visibility, awareness and engagement. This is a labor of love for the many volunteers and TPP is honored to be a partner.

The Pathways to Engineering Program at CSM provides a path for students seeking engineering degrees from the A. James Clark School of Engineering, University of Maryland (UMD), which teaches years three and four in mechanical and electrical engineering here in Southern Maryland at the SMART building. TPP provides two full scholarships each year for students entering the Pathways to Engineering Program at CSM. One of the scholarship requirements is that recipients must agree to continue in the UMD engineering program offered in Southern Maryland. The Pathways/UMD engineering partnership provides opportunities for local students to continue their education while remaining in Southern Maryland. NAWCAD supports many of the students entering the UMD engineering degree program offered here with its own pathway intern program. NAWCAD includes tuition assistance and part time employment that may lead to full time work for the Navy upon graduation. While participation is not guaranteed, there is a 95%+ acceptance rate by NAWCAD.

The Applied Physics Endowed Fund at St. Mary's College of Maryland was established by TPP in 2012, to support the development of an applied physics curriculum. The fund supports education, research, and internships. Collaborative efforts between TPP, SMCM, and NAWCAD under our EPA allow us to maximize the benefits. Many of these SMCM graduates go to work for the Navy at Patuxent River and elsewhere. TPP's support of the physics curriculum at SMCM directly reinforces STEM workforce development, and addresses important naval aviation requirements. Faculty engagement in research at NAWCAD is another benefit.

In 2021, TPP established a SMCM Physics Scholarship, to be given annually to incoming SMCM students majoring in physics. Two \$5,000.00 scholarships were awarded for the 2022-2023 Academic Year.



STEM EDUCATION INITIATIVES/continued Great Mills High School, SMCPS

TPP has supported STEM education and related clubs at Great Mills High School for many years. Cyber Patriot, the National Youth Cyber Education Program, is more important than ever, and we continue to champion it. The program was created by the Air Force Association to inspire K-12 students to careers in cybersecurity or other STEM disciplines critical to our nation's future. The National Youth Cyber Defense Competition, the nation's largest cyber defense competition, is at the heart of the program. Cyber Patriot encourages students to learn about cyber security and fosters their interest in cyber career opportunities, supporting the critical need for cyber professionals in government. TPP Benefactor Northrop Grumman also supports Cyber Patriot.

This year TPP also provided funds to Great Mills High School for Lab Equipment to extend learning and integrate engineering into science units, through the use of the lab tools. TPP supported the StratoStar Cadet Program, which allows students to launch missions to the edge of space with high altitude balloons. Funds were provided to cover some VEXIQ registration fees as well. The students benefit greatly from such opportunities.

Science Fairs & Expos play a critical role in getting students interested in STEM and STEM related careers. Students explore topics of interest, make prototypes, conduct lab experiments, collect data and present results. The science fairs and expos in St. Mary's, Calvert, and Charles counties showcase middle and high school projects and reflect the broad interests of the students. TPP recognizes their work with awards in junior and senior divisions. Frequently, some of our local award winners go on to compete at the regional level. TPP members volunteer as mentors and judges, and we appreciate their commitment.

Robotics programs and activities take place in every school in Southern Maryland. Starting in elementary school robots provide a fun, challenging and successful way to engage and educate our students. It gets them interested in robotics, coding and other subjects that are important to the Navy and the broader community. It introduces students to STEM-related careers. Currently, more than 1300 students are involved in competitive robotics in Southern Maryland.

The Academy of Finance (AOF) at Chopticon High School prepares students for careers in financial services. TPP has been part of the AOF since its inception. TPP Finance Director serves on the Program Advisory Council for AOF and is actively engaged with students and faculty. TPP worked with AOF to incorporate the Project Scope security clearance program in the AOF curriculum. AOF students are required to participate in an internship opportunity, providing real world experience that demonstrates the value of their classroom instruction. TPP sponsored a AOF intern each summer until Covid.

WORKFORCE DEVELOPMENT

AMP/TJR APPRENTICESHIP INITIATIVES

AMP/TJR is a partnership between the James A. Forrest Career and Technology Center (SMCPS), The Patuxent Partnership and the SEO of Naval Air Warfare Center Aircraft Division (NAWCAD) to match talented high school students interested in working in STEM, Manufacturing and Business fields, with paid apprenticeship opportunities in local industry and government.

Tech Jobs Rule was launched as a pilot program in May 1, 2019. Since then, it has become part of the Apprenticeship Maryland Program, known as AMP/TJR. All companies hiring student apprentices are approved by the Maryland Apprenticeship and Training Council (MATC). The pilot program in the 2019-2020 school year had 8 senior students working for three companies and the government organization NAWCAD. During the 2020-2021 school year, which was in the middle of COVID-19, we had six students participating at five companies. This year we had 40 TJR students, and we anticipate continued growth. AMP/TJR is designed to help fill the current workforce gap of skilled artisans in the STEM, Manufacturing and Business fields, through hands-on experience. Many high school students do not know what jobs are available to them once they graduate.

The 2021-2022 school year, had 20 students participating at 14 companies. The 2022-2023 school year, has 40 students participating at 25 companies.













AMP/TJR APPRENTICESHIP INITIATIVES/continued

With the AMP/TJR program, the apprentice learns what positions and future careers are available in their chosen industry. They also receive resume guidance on where and how to apply for jobs. Soft skills are required to succeed at a job, and apprentices are also guided and graded on these skills. This partnership brings together the industry knowledge of TPP with the Forrest Center students to build our future workforce. The program has been embraced by our members and partners.

AMP/TJR is offered to Forrest Center students entering the final year of high school, who have completed at least one year. Students apply for positions from a list of Department of Labor-approved employers. At the end of the program, students may be offered full-time employment with the company/organization where they completed their apprenticeships.

Maryland & The Greater Washington DC, Junior Science & Humanities Symposium

The Junior Science and Humanities Symposium (JSHS) is a U.S. Army, Navy, and Air Force sponsored STEM competition which promotes original STEM research and experimentation at the high school level; and publicly recognizes students for outstanding achievement.

TPP was awarded the MD JSHS, for the fourth year. In 2022 TPP was also asked to consider taking on the Greater DC JSHS, and after consulting with NAWCAD and SMCM, and with a little trepidation, TPP submitted a proposal and was awarded the Greater Washington DC JSHS, too.

JSHS is one of many collaborations with NAWCAD and SMCM under the auspices of our Education Partnership agreement. For the last three years we held a virtual symposium. Next year we are looking forward to an in-person symposium at SMCM, in March 2023.

Our JSHS keynote speakers for the 2022 symposium were Mr. Joseph Welch, Director of US Army DEVCOM C5ISR Center, and Mr. William C. Hoppe, SSTM Associate Director of Science, Technology and Engineering, DEVCOM. Our student guest speaker was Jaelene Amaya Perez, Electrical Engineering student, College of Southern Maryland.

There were 20 student finalists -10 of whom presented oral presentations, and 10 poster presentations in the Maryland competition. For Greater Washington DC there were eight oral presentations, and four poster presenters. Once again the depth of the student research, knowledgeable demonstrations, modeling, their collaboration with teachers, mentors, research labs, and the diversity of the topics chosen, was outstanding. The judges had difficult decisions in selecting the award winners. Several of the students went on to compete in the National JSHS.

The National Junior Science and Humanities Symposium was held April 20th - 23rd in Albuquerque, New Mexico. Five Maryland student delegates competed in the National Competition, along with participants from all 50 states, Puerto Rico, and DoD schools in Europe and Pacific regions. The Nationals awards ceremony included congratulatory remarks from three keynote speakers: Dr. Victoria Coleman, Chief Scientist of the U.S. Air Force; Rear Admiral Lorin C. Selby, Chief of Naval Research; and Mr. Jeffrey D. Singleton, Director for the Technology, Officer of the Assistant Secretary of the Army (Acquisition, Logistics &Technology). The keynote speakers were followed by the award presentations. The Patuxent Partnership and Ms. Bonnie Green, the Maryland Regional Director, commend and congratulate our JSHS Maryland Student Delegate, Efe Eroz for receiving 2nd place in the Poster Board Presentations in the Engineering & Technology category.









Top row: Keynote speaker Mr. Joseph Welch, Ms Bonnie M Green, Ms Ellen Servetnick, Chad Alrawashdeh, Digonto Chatterjee- Moderators Capt.(ret) Barbara Ives, Ms. Ellen Servetnik, Efe Eroz.
Bottom Row: Dr. Michael Simpson, Celin Wu, Avani

Simpson, Celin Wu, Avani Ahuja, Owen Desenhaus, Ainsley Ganti, Simon Lee, Speaker Mr. William C. Hoppe.



IPA PROGRAM

The Intergovernmental Personnel (IPA) Act Mobility Program is a unique program that enables the temporary assignment of skilled personnel between the Federal, and state and local governments, colleges and universities, and other eligible organizations.

The IPA Program is an authorized, and currently in-use OPM tool to acquire critically needed SMEs for federal agencies. IPAs bridge the gap with critical to fill positions.

TPP IPAs are technical leaders in science and technology, primarily but not exclusively, retired military/civilian personnel, with first-hand knowledge of warfighter capability needs. IPAs connect the dots between emerging technologies and rapid fielding of capabilities, and have extensive knowledge of the acquisition process. Their unique experiences add value to TPP and the government organization. IPAs bring specific expertise to hard-to-fill positions quickly and provide a cost effective solution. Unlike contract hires, IPAs may supervise employees and commit financial resources.



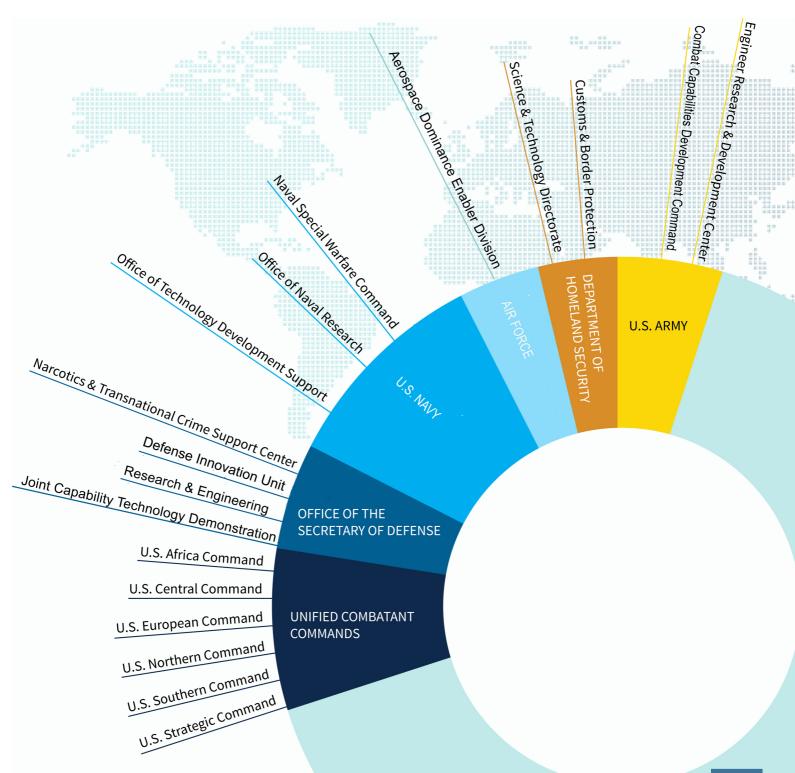
For more information on TPP's IPA Program, please contact:

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For more information on the IPA program visit: https://www.opm.gov/policy-data-over-sight/hiring-information/intergovernment-personnel-act

IPA DISTRIBUTION



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Steve Cricchi DOD Liaison Executive Director, NAWCAD



Bert Johnston President Emeritus, RADM, (ret) USN

COMMITTEES

BOARD GOVERNANCE

The Board Governance Committee ensures that the board composition and structure is in compliance with the bylaws, containing a diverse group of directors capable of accomplishing the mission and objectives of the organization. The committee provides the Board with periodic review of board composition and terms, identifies new board member candidates, and keeps the Board aligned with its roles and responsibilities with the organization's purpose.

FINANCE

The Finance Committee ensures the organization's financial stability by providing oversight on its budget and finances. The committee's primary role is to provide the expertise needed to assure the full Board that the organization is on sound financial footing. To perform this role effectively, committee members work as a team with the Executive Director, Finance Director, auditors, and other financial professionals.

ACADEMIC & OUTREACH

The Academic & Outreach Committee identifies and recommends initiatives, programs and financial support aligned with our mission and the TPP strategic plan. Committee members provide regional support for STEM education-related activities and identify new opportunities to support STEM workforce development.

IPA COMMITTEE

The IPA Committee focuses on the work of our IPAs, strengthening our relationships with government agencies, academia and our members.

MEMBERSHIP COMMITTEE

The Membership Committee focuses on the recruitment of new members, engagement of current members, and assistance to members in partnering with each other and the greater Southern MD community. It also brainstorms ways to demonstrate the value of TPP membership.

STRATEGIC PLANNING

The Strategic Planning Committee is responsible for developing the organization's mission, vision, and goals through the creation and implementation of a comprehensive strategic plan to be implemented by the Board of Directors. The committee regularly reviews the organization's goals to ensure the strategic plan is in alignment with ever changing objectives of the community and Navy partners.

HEADQUARTERS STAFF

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TPP Annual Dinner, June 8th at Historic St. Mary's City

Under yet another spectacular sunset at Historic St. Mary's City, TPP hosted its Annual Dinner on June 8th with 330 members and their guests, and with special guest and dinner speaker VADM Jeffrey 'Huge' Hughes, we gathered for cocktails on the lawn, followed by dinner in the pavilion.

Our Annual Dinner is an opportunity to recognize TPP activities and to celebrate our members, time to renew acquaintances and to celebrate one another. So much is still about having survived 18 months of COVID and focusing on the future.

TPP Executive Director Bonnie Green welcomed everyone and made introductions. Special guests included: Tom Rudowsky, Deputy Commander, NAVAIR, Steve Cricchi, executive director, NAWCAD, CAPT John Brabazon, C/O, Pax River NAS, State Senator, Jack Bailey and too many more to list here. She thanked Denise Foster, Exec Dr. of Leadership Southern Maryland for her 4 years of leadership, and recognized the TPP Board members and Benefactors.

The National Anthem was spectacularly rendered by TPP board member Matt Scassero and State Delegate, Rachel Jones, followed by the invocation offered by former TPP board member Joe Anderson. Their participation has become a tradition of the TPP Annual Dinner.

After dinner, TPP BOD President Ray Wernecke introduced the winner of the 2021 Member of the Year Award, Bell. Accepting the award with many bon mots was TPP Board member and Bell senior manager Phil Fickes. Keynote speaker VADM Jeffrey 'Huge' Hughes, deputy chief of Naval Operations for Warfighting Development, N7, had many entertaining stories about flying Seahawk helicopters, throughout his career.

TPP thanks our dinner sponsors for their support. Platinum sponsors: Bell, KBR, Northrop Grumman; Gold sponsor, VTG; Silver sponsors: GDIT, Lockheed Martin, MIL Corp, NSI, Resource Management Concepts, Sabre Systems, SMX.

ANNUAL DINNER 2022





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