



THE PATUXENT PARTNERSHIP ANNUAL REPORT

2024

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The opening of the new CSM Cyber Lab, named for CAPT Barbara Ives. L to R: Cutting the ribbon, CAPT. Barbara Ives, USN (ret) Ms. Bonnie Green, Dr. Yolanda Wilson, and Glen Ives, USN (ret).



Mark 'Stick' Converse, retiring Director, Association of Naval Aviation (ANA) - Patuxent River Squadron CO, presents VADM Francis 'Spanky' Morley, Principal Military Deputy Assistant Secretary of the Navy (Research, Development and Acquisition). Morley is scheduled to retire in July 2024. Morley with a superman cape presented to him at the TPP / ANA Panel Maritime Patrol Association.



MDJSHS 2024 panel of judges, L to R: VADM Dean Peters, USN (ret), Phillip Melton, Dale Moore Ed.D, Kael Almeyda-Bias, Ed Copeland, Ph.D, Kenneth Evans, Dr. Owen Lewis, Andrew Koch, Ph.D, Martin Chernoff Ph.D, at SMCM.



L to R: SoMD 2030, Summer 24 intern certificate awards - Mike Morgan, TPP Vice President, Morgan Anderson, Intern, Non-Profit LEAP Forward Inc, Rhonda Thomas, President, LEAP Forward Inc, Jennifer Brown, TPP Workforce Development Director.



TPP CONNECTS THE DOTS

"The ladder of success is best climbed by stepping on the rungs of opportunity." - Grace Hopper

We are all about creating opportunity at The Patuxent Partnership. Our programs, forums, and networking events provide the opportunity to exchange ideas, information, and data on research and technology. We focus on topics of interest to the Navy Aviation community.

"A dream is just a dream. A goal is a dream with a plan and a deadline." - Grace Hopper

At any given time TPP may be working on a dozen different projects in various stages of development. It is within this environment of multi-tasking and multi connectivity that we plan and deliver programs that are outwardly diverse, yet highly focused on our mission to support the Navy, our members, and our community.

"The nice thing about teamwork is that you always have others on your side." - Grace Hopper

Our membership informs us, and networking is an important part of our outreach. Collaboration between government, industry, and academia to advance education, science, technology, and tech transfer continues to be our North Star.

Southern Maryland is an area of immense opportunity, a community of experts across many areas of interest. Our strength at TPP is that we see the big picture. Goals that support economic development and our quality of life align with our strategic goals.

Connecting experts and ideas provides an operating structure to advance technology, our STEM and education efforts, and our community engagement.

TPP Connects The Dots between organizations and individuals through programs and events that strengthen our community's economic and social infrastructure in Southern Maryland. Our collaboration with academia increases STEM education, supports future engineers, physicists, classic sciences, artisan/skilled trades and expands our workforce.

We engage elementary and middle school students in robotics and other camps. High school STEM students participate in Science Fair competitions and the MD Junior Science and Humanities Symposium.

REAR Admiral Grace Hopper: Active Duty and Naval Reserve officer. A pioneer of computing during World War II, laying the foundation for today's technology. She wrote the rules.

"The best way to prepare for the future is to challenge the present." - Grace Hopper

Our Partnership Intermediary Agreement (PIA) with NAWCAD supports their mission through various roles and actions. We support TechBridges, the TechPort, and the Aeropark. TPP introduces new organizations to what is happening at Pax River, and in Southern Maryland.

For more than a decade our Educational Partnership Agreement (EPA) with NAWCAD and St. Mary's College of Maryland (SMCM) has supported research, STEM activities, and internships, from applied physics to human factors. SMCM faculty and students are engaged with NAWCAD and the community.

"The most important thing I've accomplished, other than building the compiler, is training young people." - Grace Hopper

AMP/Tech Jobs Rule is an ongoing initiative with the James A. Forrest Technology Center (Forrest Center), the NAWCAD Strategic Education Office, TPP, and some of our member companies.

The TPP Pathways Scholarships at the College of Southern Maryland supports mechanical and electrical engineering. This annual commitment will cover five full scholarships for the 2024-2025 academic year. A key scholarship requirement is that students agree to apply to the UMD Engineering programs taught here in Southern Maryland. Most of the graduates choose to work for the Navy at Pax River.

The TPP Physics Scholarship at SMCM is of vital interest to NAWCAD. This year TPP added a Chemistry Scholarship. SCMC students work for the Navy at Pax River and elsewhere for TPP members upon graduation.

In 2023, **SoMD 2030 Workforce Development** was incorporated into the initiative launched by TPP with funding provided by NAWCAD. This initiative has seen rapid growth in apprentices, interns and other activities. The SMNA worked to secure this funding and continues to support our work.

The TPP weekly e-newsletter is one important way we keep our members connected, locally, across the country and beyond. It has become an invaluable resource. It also is an important communication tool for SoMD 2030.

A Message from our EXECUTIVE DIRECTOR



Top: Bonnie Green, at the dedication of the new CSM Cyber Lab for CAPT Barbara Ives USNR(ret). Bottom Left: Bonnie Green, Kee Abell, Lakisha Ferebee. Right: Bonnie Green with Governor Wes Moore after the tour of the USMSM MATRIX Lab and industry presentations.

Dear TPP Members, Friends, and Colleagues, It has been another amazing year. Education and workforce development have become an even more important part of our work. We have seen the exponential development and growth of our STEM and workforce initiatives. Our work with the Strategic Education Office (SEO) of NAWCAD on Southern Maryland 2030 and other STEM outreach is making a difference in our community. We are leveraging our Partnership Intermediary Agreement (PIA) and our Education Partnership Agreement (EPA) with NAWCAD to increase opportunities for students in St. Mary's, Calvert and Charles Counties.

TPP closed out a fulfilling academic year two of SoMD 2030 with much higher participation in the Tech Jobs Rule high school apprentice program, another summer college internship program, summer camps, a greatly expanded SPARK! Career Fair attended by over 900 high school students from St. Mary's, Charles and Calvert Counties, a STEM Summer camp, the CAPT Barbara Ives, USNR (ret) Cyber Lab, and other educational outreach.

TPP again was awarded the Maryland Junior Science and Humanities Symposium (JSHS), which took place on February 24th at St. Mary's College of Maryland (SMCM). Our EPA with NAWCAD and SMCM provided the support and capacity needed to lead this program. NAWCAD, along with NSWC Indian Head, Joint Base Andrews, and other TPP members and friends gave us the band-width we needed to have over 80 papers, each of which had to be read by three reviewers.

Our partnership with the College of Southern Maryland continues to thrive.

This year we had numerous highly qualified candidates for our TPP-CSM Pathways to Engineering Scholarships. The CSM Pathways program is the primary 'feeder' for the UMCP Engineering programs taught at the SMART Building at USMSM. The candidates were so impressive that we awarded five scholarships this year. Our work with CSM is vital to educating our region's workforce. By investing in students at the College of Southern Maryland, The Patuxent Partnership is supporting STEM education, as well as creating access, pathways, and connections for these students to work with the Navy and other employers.

We continue to collaborate with the Center for the Study of Democracy at SMCM, sponsor two physics scholarships and this year added a chemistry scholarship. A number of our events take place at the SMCM campus.

The TPP Annual Dinner at the Pavilion in beautiful Historic St. Mary's City was once again the highlight of the year. We were honored to have Vice Admiral Francis "Spanky" Morley, Principal Military Deputy Assistant Secretary of the Navy (Research, Development and Acquisition), and a long-time supporter of TPP, as our speaker. Over 300 members and guests enjoyed the evening. We appreciate the support of our sponsors – Northrop Grumman, MIL, NSi, ASEC, BTAS, ITC DEFENSE, SAIC, VTG and SERCO.

It was a great pleasure to announce Precise Systems as the TPP Member of the Year. Precise plays an active role in our community,

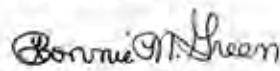
demonstrating leadership, commitment to STEM education and outreach initiatives, community support and a strong commitment to economic growth. Precise supports TPP programs and activities, and says yes when TPP asks for their engagement and involvement.

We are fortunate to live in such a beautiful area. Our partners in government, industry and academia are working to make it even better. From TPP-ANA panels to the Chesapeake Orchestra and the River Concert Series, there is so much going on in our community. We thank you, our members, for all you do to make this an even better place to live, work and enjoy life in Southern Maryland.

Our TPP Newsletter keeps members and friends informed. Our Board of Directors is focused on keeping TPP relevant and on the evolving issues of importance to our members and community. Their engagement contributes to the success of our programs and initiatives.

Let me close by thanking our benefactors ASEC, BELL, Boeing, General Dynamics, HTi, KBR, Lockheed Martin, MIL Corp, Northrop Grumman, NSi, RTX, SAIC and SURVICE for their continued support.

Working with all of you across government, industry and academia is the heart of our mission. Thank you for your unflinching support and your faith in TPP. We are honored. And now as we look back, we move forward to another year of new challenges, opportunities, and more.



Bonnie Marie Green
Executive Director



Douglas Belvin
President, Board of Directors

OUR MEMBERSHIP

TPP is all about our members. When planning events, from our Defense Summit to our community engagement, we value your engagement, feedback and support. TPP works to make your TPP membership a valuable resource to you. We recognize the important work our members perform in our community—giving back. We work to make our weekly newsletter a useful resource. It covers TPP events, DOD and NAWCAD activities, Maryland programs, and what is happening at SMCM, St. Clements, Historic Sotterley and other historic and cultural venues, *to learn more of our history and enjoy the venue*. Having our TPP Annual Dinner at Historic St. Mary's City is just one way to do that.

You are invested in TPP, attend and sponsor our events, and share your ideas, all the while using and expanding your connections. We rely on you to serve as judges, mentors, and supporters for student-centered events. TPP could not do it without you. Thank you.

Programs and Events

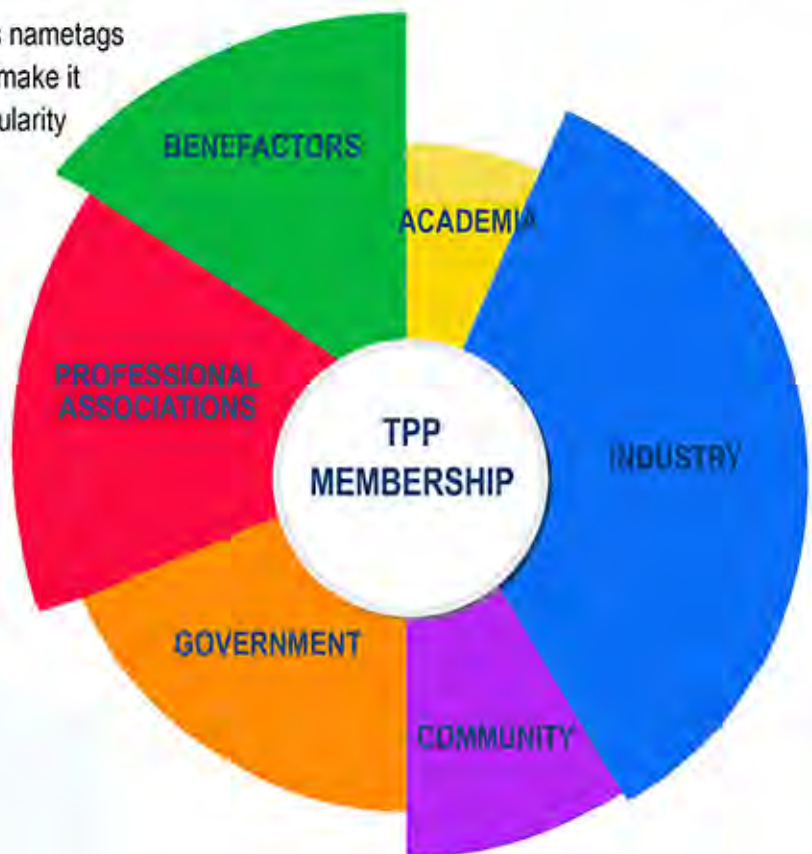
TPP members participate in member-only events and programs, including the TPP Annual Dinner and our Holiday Party. Members are offered reduced or free registration to TPP programs. TPP members are invited to sponsor programs such as the TPP-ANA panels, our annual dinner, and our programs. We value your support and appreciate your confidence in TPP.

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, business and education resources, community activities, and even scholarship opportunities.

We post attendee information on our website. TPP uses nametags that include the corporate affiliation of our members, to make it easy to recognize one another and to network. The popularity of nametags has increased substantially post Covid.

TPP Networking: With 200+ corporate partners, and over 3,300 registered members and program participants, TPP is recognized for valuable networking and partnering opportunities.



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, and our weekly newsletter. We recognize benefactors at our programs and activities.

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. Precise Systems received the TPP 2023 Member of The Year Award at our annual dinner.

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.

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



OUR PROGRAMS

Center for the Study of Democracy

TPP and the Center for the Study of Democracy have a long history of collaboration. We have jointly sponsored and presented programs and forums of interest to our members and the broader community.

- In November 2023 we presented an evening with author **Brent Droste Sadler**. Sadler is the author of "*U.S. Naval Power in the 21st Century – A New Strategy for Facing the Chinese and Russian Threat.*" He is a retired submariner and advisor to senior Naval Commanders and to the DOD. He currently serves as a Senior Research Fellow for Naval Warfare and Advanced Technology in the Center for National Defense at the Heritage Foundation.



Rear Admiral Tim Gallaudet



Rear Admiral Tim Gallaudet, PhD, U.S. Navy (ret) and former Deputy Administrator for the National Oceanographic and Atmospheric Administration (NOAA) briefed St. Mary's College of Maryland students and guests on the *American Blue Economy & Southern Maryland's Contribution To It*. Gallaudet talked about the blue economy from the work of the Navy and NOAA to shipwrecks, and all manner of maritime, marine and related career opportunities. The new and very popular marine science major at the college made this a particularly interesting presentation.

Association of Naval Aviation/Squadron #18

TPP and the Association of Naval Aviation Squadron #18 (ANA) have worked together for 16 years. With 50+ panels, we continue to present panels of interest and value to our members. These panels focus on topics of critical interest to the Naval Aviation community, providing the opportunity for the Navy 'inside the gate' information. TPP also collaborates with the Marine Corps Aviation Association (MCAA) on some of our panels. ANA and MCAA provide scholarships to local students. TPP member organizations sponsor the panels.

The Pax River Naval Air Museum (PRNAM) is our venue of choice, although we did make one exception this year. These events are popular with our members and the greater community, and we fill the museum. Having time to network and make connections during the pre and post program reception adds value to the evening.

We have worked with Mark "Stick" Converse for over 15 years, and it has been a phenomenal collaboration. This year Stick made the decision to step down and we are pleased to be working with CAPT Sam "Messy" Messer, USN (ret) as the new ANA squadron leader.



Farewell to Mark "Stick" Converse who was presented with a plaque for his 15 years of ANA Panel collaboration with TPP.
Middle photo L to R: RADM Bert Johnston USN (ret) Ms. Bonnie Green, Mr. Stick Converse and CAPT. Sam Messer, USN (ret) who is taking over at the ANA Squadron #18

OUR PROGRAMS

TPP/ANA Panels/ continued

Our TPP/MCAA/ANA Panel in December 2023 was “Project Eagle: The Marine Aviation Roadmap to 2040.” Col. “Shady” Shadforth, USMC Commanding Officer Marine Aviation Detachment served as moderator. Panelists BGen “Beast” Lightfoot, USMC Director Combat Capabilities Directorate, Col. “MOG” Marvel, USMC Science and Technology Rapid Capabilities Office Director, Marine Corps Warfighting Lab, Col. “Huk” Joyce, USMC assistant Deputy Commandant/Aviation, BGen “Angus” Walsh, USMC, Commander Marine Corps Systems Command and Ms. Erin Lesko, Advanced Development Team were the panelists. This panel was kindly sponsored by Northrop Grumman.

- The topic for our TPP-ANA Panel in April 2024 was “Maritime Patrol: Eyes and Ears of the Fleet.” We were pleased to have VADM Francis “Spanky” Morley, Principal Military Deputy Assistant Secretary of the Navy (Research, Development and Acquisition) as our keynote and moderator. He was joined by CAPT Erik Thomas, Program Manager Maritime Patrol and Reconnaissance Aircraft, PMA290, RDLM Adam Kijek, Commander, Patrol and Reconnaissance Group, CAPT Josh Guerre, Program Manager, Persistent Maritime Unmanned Aircraft Systems (PMA 262) and GPCAPT Arran Moore, Officer Commanding, Number 92 Wing, Royal Australian Air Force. This panel was kindly sponsored by ASEC.

Our May 29, 2024 TPP/ANA/MCAA Panel was held at the Bay District Social Hall to accommodate the 200+ attendees. VADM Carl ‘Chebs’ Chebi, Commander, Naval Air Systems Command, led the Naval Aviation Enterprise 3-Star Summit, “Advancing Naval Aviation Readiness for the High-End Fight”. He was joined by LtGen Bradford “Gila’ Gering, Deputy Commandant for Aviation, USMC, VADM Daniel ‘Undra’ Cheever, Command Naval Air Forces, U.S. Pacific Fleet, and RADM Michael ‘Buzz’ Donnelly, Director Air Warfare Division, N98, Office of the Chief of Naval Operations. This panel was kindly sponsored by Northrop Grumman.



L | R Top: Ms. Bonnie Green, Col “Shady” Shadforth, BGen “Beast” Lightfoot, BGen “Angus” Walsh, Col “Huk” Joyce, Col “MOG” Marvel, Ms. Erin Lesko.
Middle: Ms. Erin Lesko at the podium
Bottom: Col “Shady” Shadforth at the podium



L | R Top: Mr. Sam Messer, Mr. Daniel Papp, RDML Adam Kijek, GPCAPT Arran Moore, VADM Francis Morley, CAPT Erik Thomas, CAPT Josh Guerre, Mr. Mark Converse, Ms. Bonnie Green
Left & Right bottom: VADM Francis Morley at the podium.



Top L-R: Mr. Sam Messer; RADM Michael Donnelly; LtGen Bradford Gering; VADM Daniel Cheever; VADM Carl Chebi.



Middle & Bottom L-R: LtGen Gering; RADM Donnelly; VADM Cheever; VADM Chebi.

OUR PROGRAMS



Above:
Ms. Bonnie Green,
Dr. Yolanda Wilson



Right:
Rear Admiral
Nancy Lacore



L-R: Tom Sadowski, Bonnie Green, Chris Kaselemis |
Commissioner Eric S. Colvin



L-R: Chris Kaselemis | Jim Gotsch | Ken Reed



L-R: Tom Jarboe | Tom Sadowski | Scott Hoffman



L-R: Eve Love | Bonnie Green, Tom Phelan, Eve Love

The TPP Annual Meeting on October 1, 2023, after a lively networking opportunity, introduced attendees to the new and returning TPP board members. This was followed by a brief review of TPP programs and engagement in FY 23. Dr. Yolanda Wilson, President, College of Southern Maryland, was our guest speaker. Dr. Wilson spoke about her first year at CSM, the opportunities CSM provides for students and our Southern Maryland community, and the meaningful collaboration between CSM and TPP.

- October 3, 2023. We started FY24 with **"What is going on at Naval District Washington and What Does It Mean for Pax River?"** This briefing by Rear Admiral Nancy Lacore, Commandant Naval District Washington, covered the challenges in maintaining and supporting installations in NDW, and keeping up with military construction requirements. TPP members appreciated the opportunity to share their concerns about access to Pax River, daily back-ups at all three gates, and the speed bumps. While no solutions were reached, it was useful discussion.

- October 4, 2023, **"What is happening at the Aeropark?"**- Welcome by Ms. Bonnie M. Green, Executive Director, The Patuxent Partnership
Opening remarks by Commissioner Eric S. Colvin, Commissioner of St. Mary's County - Economic Development Projects by Chris Kaselemis, Director, St. Mary's County Economic Development - Roads/Infrastructure Changes by Jim Gotsch, Director, St. Mary's County Public Works & Transportation - Aeropark Growth by Ken Reed, Managing Member, S Hunt Aero, LLC - St. Mary's County's Link to International Business by Tom Jarboe, CEO/President, AIRtec, Inc. MEDCO: Work at the Aeropark by Tom Sadowski, Executive Director, Maryland Economic Development Corporation - AIRWorks: Moving Work Outside the Gate by Scott Hoffman, Chief LSI Engineer, AIRWorks.

"What is Happening at the Aeropark?" provided attendees with updates on work at the terminal, Aeropark Growth, AIRWorks moving work outside the gate, and new business located at the Aeropark. Tom Sadowski, Executive Director, MD Economic Development Corporation, gave an update on the SCIF being built at the Aeropark, as well as the SCIF at Indian Head.

- December 7, 2023 - In conjunction with the **Patuxent River Council Navy League of the U.S. Navy League**, we presented **"Before the Base - Cedar Point Before the Patuxent River Naval Air Station"** Eve Love, an ardent student of history and geneology, and her husband, John Cook, worked together to compile the data for the book.

OUR PROGRAMS

- March 13, 2024 - **My Women's History with Ms. Leslie D. Taylor.** Director, Vice President and Strategic Advisor at MIL Corp, previously Vice Commander of the Naval Air Systems Command (NAVAIR) (retired in January 2022).

For Women's History Month, Ms. Taylor shared " My Women's History." She spoke of her life journey, supported by strong women, that led from Engineering to Executive Director of NAWCAD. She mentored others, including many women, on her journey and continues her work as an adjunct at St. Mary's College of Maryland.

- July 23, 2024 - **SBA/SBIR Program- Opportunities at Pax River and SoMD.** Learn how it works and how to be a partner. Sponsored by TPP and SBDC. Speakers were the following: Working with the Small Business Development Center and Ms. Wynne Briscoe, we spent a day learning more about the SBA and SBIR programs. Mr. Tom Rudowsky, Deputy Commander, NAVAIR, and Small Business Champion opened the meeting with his remarks and perspective. Ms. Arveice Washington, Director, Department of the Navy (Navy) Office of Small Business Programs and Ms. Mercedes Thurston, Navy Mentor Protégé Program Manager, spoke on the ways that the Navy supports small business. Mr. Brian Shplet, Acting Director, Navy SBIR/STTR Programs, provided insights. Mr. Rick Tarr, NAWCAD Tech Transfer Office Director, Kristi DePriest, NAVAIR SBIR/STTR Program Manager, Petra Branthoover, NAVAIR Phase III Lead, Mr. Tom Sanders, Managing Director, CTSi and Mr. Darin Nielsen, CEO, Ace Consulting, participated in a small business panel with time for questions and answers.

Ms. Wynne Briscoe shared insights about the role of the Small Business Development Center. Mr. Edsel Brown, former Assistant Director, SBA Office of Innovation and Technology (SBIR/STTR Programs) gave an overview of SBA and answered questions. Mr. Brandon Mason, Director, Tech & Innovation Team, UMD SBDC, was the closing speaker and talked about the innovative work being done with small businesses at UMD.

- September 24, 2024 - TPP Board member Dale Moore delivered our final program for FY2024. The topic was "**Leading the Next Generation DOD Ecosystem.**" His presentation led to numerous questions from our attendees.



L-R: Leslie Taylor, Bonnie Green, Sybol Anderson
Right: Leslie Taylor



L-R: Wynne Briscoe | Edsel Brown
Left: Brandon Mason

Below Dr. Dale Moore



Below: The Honorable Russell Rumbaugh, Assistant Secretary of the Navy (Financial Management & Comptroller)



Above: Ms. Bonnie Green, Mr. Steve Spehn.



Left: RADM Robert Girrier and Mr. Steven Wills.

Below L to R: Panel - CAPT Dennis Monagle, Mr. Derek Greer, Mr. Michael Dodd, Mr. Michael McGuinness, and Moderator Mr. Sevan Mehrabian.



Left to right: VADM Francis "Spanky" Morley.

Mr. Ashley Johnson



Below R to L: Panel Mr. Tom Rudowsky, Mr. Steve Cricchi, RDML Joseph Hornbuckle, VADM Joe Rixey, RADM Mark Darrah,



Left: Mr. Tom Rudowsky.

Below the audience with The Honorable Russell Rumbaugh.



OUR PROGRAMS

TPP Defense Summit

Our second annual Defense Summit in March 2024 opened with our morning keynote speaker The Honorable Russell Rumbaugh, Assistant Secretary of the Navy (Financial Management & Comptroller), introduced by Mr. Steve Spehn, Deputy Science Advisor, U.S. European Command.

The Leveling Effect of Technology on U.S. Maritime Operations session with RADM Robert Girrier, USN (ret), Senior Fellow, Center for Naval Analyses, and President Emeritus & Board Director, Pacific Forum International and Mr. Steven Wills, PhD, Navalist, Center for Maritime Strategy, Navy League of the United States, focused on the impact of low cost technology on Maritime operations in places such as the Red Sea.

Accelerating Capabilities to the DoD for the Warfighter looked at DOD programs and the critical importance of meeting evolving warfighter needs - Moderator by Mr. Sevan Mehrabian, Senior Manager, Deloitte Consulting LLP, the panelists were Mr. Michael Dodd, Principal, National Security Innovation Capital, Defense Innovation Unit; Mr. Michael McGuinness, Science Advisor / OSD R&E LNO, U.S. European Command; Mr. Derek Greer, Director, Integrated Battlespace Simulation and Test Department, Naval Air Warfare Center Aircraft Division (NAWCAD); CAPT Dennis Monagle, Program Manager, Multi-Mission Tactical Unmanned Aerial Systems (UAS), NAVAIR.

VADM Francis "Spanky" Morley, Principal Military Deputy, Assistant of the Secretary of the Navy for Research, Development & Acquisition was the afternoon keynote speaker. He addressed **"Big Navy Acquisition – Accomplishments and Challenges."**

Mr. Ashley Johnson, Technical Director, Naval Surface Warfare Center Indian Head Division (NSWC IHD) discussed **The Navy's Arsenal** and the expansion getting underway.

NAVAIR: Transformational Thinking – Meeting the needs of the Warfighter was led by **Mr. Tom Rudowsky**, Deputy Commander, NAVAIR, he moderated the panel which included Mr. Steve Cricchi, Executive Director, Naval Air Warfare Center Aircraft Division (NAWCAD); RDML Joseph Hornbuckle, Commander, Fleet Readiness Centers, Naval Air Systems Command; VADM Joe Rixey (ret), Vice President, Navy, Marine Corps, Coast Guard, Lockheed Martin Corporation Government Affairs. RADM Mark Darrah, USN (ret), Deputy VP, F35 Solutions, Electronic Systems, BAE Systems, Inc.

Closing Remarks by Mr. Steve Spehn, Deputy Science Advisor, U.S. EUCOM. **The Last Word** by Mr. Tom Rudowsky, Deputy Commander, NAVAIR

Thank you to our sponsors:

Diamond Sponsor: Northrop Grumman Corporation

Gold Sponsors: Chenega Agile Real Time Solutions (CARS) and SAIC

Silver Sponsors: Boeing, MIL Corp, Lockheed Martin, and NSI

Lunch Break Sponsor: Resource Management Concepts Inc.

NAWCAD INDUSTRY DAY

Wednesday, October 25, 2023 | 8:30am - 4:00pm

Welcome & Introductions Ms. Bonnie Green, Executive Director, The Patuxent Partnership.

Mr. Jeff Guarnero, Head, NAWCAD Procurement Group/CCO.

NAWCAD Leadership Update RDML John Dougherty, Commanding Officer, NAWCAD, Mr. Steve Cricchi, Executive Director, NAWCAD

Acquisition Updates Mr. Jeff Guarnero, Head, NAWCAD Procurement Group/CCO

Long Range Acquisition Forecasts (LRAF)

Mr. Alfred "Bunky" Hensler, Division Head, NAWCAD Procurement Group

Science and Technology Dr. Theresa Shafer, CTO, NAWCAD

NAVAIR North Stars Broad Area Announcement Overview Mr. Raymond Cannon, Procurement Lead for BAA.

ONE ON ONES

• Mission Systems Group

1. Avionics Engineering IDIQ

• DAiTA Group

1. Anti-submarine Warfare RDT&E IDIQ
2. Simulation Systems (MFS) Consolidated Competition
3. DNA Enterprise Engineering, Hosting, and Operations Support Services
4. DNA Software Applications Solutions and Support Services
5. SAIL RDT&E Support services OR Electromagnetic Effects RDT&E Support Services

• WOLF

1. Airborne System Integration Division: Multi-Mission Data Link (Katy Gates and Steve Dean) (Rhiana Haney and CJ Utara)
 2. Ship & Air Integrated Warfare Division (SAIW): AEGIS (Brittany Ramirez and Jenn Gibbs)
 3. Ship & Air Integrated Warfare Division (SAIW): Lifetime Support Engineering (LSE) (Brittany Ramirez and David Burch)
 4. Ship & Air Integrated Warfare Division (SAIW): Communications Systems Integration Support (CSIS) (Brittany Ramirez and Dennis Superior)
 5. Ship & Air Integrated Warfare Division (SAIW): Ship and Air Command, Control, Communication, Computers, Combat, Intelligence, Surveillance, and Reconnaissance (C5ISR) Systems Support - (SACSS) (Brittany Ramirez and Rob Broom)
 6. Special Communications Mission Solutions Division: Networked Communications Resources (NCR)
 7. Special Communications Mission Solutions Division: Deployed Mission Systems (DMS) (Amy Dorsch, Bill Stack NCR, and Robert Walsh DMS)
 8. IC2&IS: Distance Learning III (Mary Purcell and Doug Shuman)
- **Office of Small Business Programs** (Larry Butts and Cynthia Thompson)
 - **Air Systems Group** (Bill Reardon and Tim Fallon)
 - **Systems Acquisition Group** (Pete Zawada)
 - **Naval Test Wing Atlantic – Mission Systems Test & Evaluation (MSTE)** (Jen Russell and Brian Hastings)
 - **Command Strategic Leadership Support (CSLS)/ Command Ops Procurement Group** (Ed Smetana and Merissa Abell)
 - **Liberty Tech Bridge - NSWC Philly & NAWCAD Lakehurst** (Kevin Larkins and Michael Lavery)
 - **SoMDTech Bridge (NAWCAD)** (Rick Tarr, Michelle Miedzinski, Amy Kettelle, & Lindsey Frisco)
 - **Naval Aviation Systems Consortium (NASC)** (Gary Kessler and Carol Frisch)



RDML John Dougherty & Ms. Bonnie Green



Ms. Bonnie Green



Mr. Alfred "Bunky" Hensler



RDML John Dougherty & Mr. Steve Cricchi



RDML John Dougherty



Dr. Theresa Shafer



Mr. Rick Tarr



Registration & Networking



STEM EDUCATION INITIATIVES

The Patuxent Partnership continues to expand its work in education and workforce development. Our members, the Navy and our community keep us focused on building our future workforce. It is of critical importance to our national security and to the economic prosperity of Southern Maryland.

We continue to increase our STEM outreach and education support, building the pipeline for engineering, technology, the classical sciences, business and finance. Some of our programs are focused on education and workforce opportunities and challenges. TPP works with the Strategic Education Office (SEO) to support NAWCAD programs. We provide programs and panels of interest to NAWCAD and NAVAIR. Our programs align with the Navy's continuing education requirements. Our programs keep our members informed and provide professional development. TPP works across government, industry and academia to support workforce needs in Southern Maryland.

For more than twelve years, TPP has had an Education Partnership Agreement (EPA) with NAWCAD and St. Mary's College of Maryland (SMCM). Our agreement supports programs from internships to research and technology innovation. Events include STEM-ING, the Maryland Junior Science and Humanities Symposium, summer camps and activities. It includes support for uncrewed systems education, camps, internships, and other educational activities. TPP activities increase visibility for the Aeropark, a major economic driver for St. Mary's County.

TPP is a valued resource for the community on educational opportunities. Our STEM-Link includes information on summer camps, science fairs, STEM activities and competitions and scholarship information. Our work with the NAWCAD Strategic Education Office (SEO) to advance STEM education and outreach activities, and to share information on ONR/Navy-funded internship programs, has increased student participation and awareness.

Our ongoing collaboration with public and private schools in Southern Maryland, St. Mary's College of Maryland (SMCM), the College of Southern Maryland (CSM), the University System of Maryland at Southern Maryland (USMSM), the University of Maryland and other academic organizations is invaluable in achieving our goals. The Fort Meade Alliance is a resource for TPP, and shares their experiences.

The Fort Meade Alliance developed Project SCOPE to help students from middle school through college, and to assist transitioning military veterans, to understand, navigate and master the security clearance process. Project Scope also identifies situations and actions that could prevent someone from receiving a clearance. Security clearances are essential to many jobs at NAS Pax River and military and federal installations across Maryland. Many people consider security clearances primarily as a military requirement, however, individuals working in banking, law enforcement, natural resources, education, and at various State and local agencies, may require a security clearance. The Academy of Finance at Chopticon High School incorporates Project Scope security clearance education into the curriculum. TPP is working with St. Mary's County Public Schools to make Project Scope available to more students. We also are working with Charles County and Calvert County Public Schools to expand the use of Project Scope.

STEM Engagement: For many years TPP has sponsored STEM related camps and other activities with St. Mary's County Public Schools (SMCPS). Initially it was a Summer Space Camp focused on NASA and space exploration. Later there were cyber camps, environmental camps and Tech Adventures Camps - incorporating aviation, rocketry, coding, robotics, space science and space citizenship, and other STEM oriented topics. More recently TPP support has included STEM competitions, visits to the Patuxent River Naval Air Museum (PRNAM), STEM equipment and the SMCPS STEAM Festival.

Leap Forward is a 501 (c) (3) that serves underrepresented youth from diverse ethnic backgrounds and underrepresented communities through programs, personal mentoring, and enrichment activities. These include monthly meetings, seminars, field trips, and educational support services that build self-esteem, academic excellence, and a comprehensive awareness of STEM career options. Leap Forward is focused on getting students through college. TPP provides support for the monthly Leap Forward meetings at the USMSM SMART building. The students have opportunity to tackle STEM related challenges and to hear from guest speakers. University of Maryland professor Dr. Danilo Romero works with LEAP Forward and helps plan their meetings and activities. Many of these students were unfamiliar with the work being done by the Navy at Pax River, and the contractor community, until TPP arranged a tour of Pax River, the PRNAM, the Aeropark and the SMART building, several years ago. TPP works to increase awareness of local career opportunities.



STEM EDUCATION INITIATIVES/ continued

growingSTEMS | The RoboBees. Members are familiar with growingSTEMS, previously known as The RoboBees. This nonprofit education organization engages students from second grade to high school to the world of robotics and various competitions. TPP has supported the growingSTEMS/the RoboBees for almost 20 years, during which time they have won more

Chairman's Awards, Engineering Inspiration Awards, and had more Event Winners! Many of their volunteers previously participated as students. They have returned and are giving back to the next generation. They meet at the HIVE, the growingSTEMS facility in Hollywood, MD, and it is a busy place. The growingSTEMS students have participated in STEM-ING, and attend local events to increase student interest. In FY2024 TPP contributed \$6000 to support growingSTEMS education programs and competitions. TPP benefactors Northrop Grumman and Boeing, along with other TPP member organizations also support growingSTEMS.



NAWCAD and TPP host an annual event, Science, Technology, Engineering, and Mathematics – **Inspiring the Next Generation (STEM-ING)** which is designed to introduce middle school girls in the tri-county region to women with STEM careers, gain confidence in taking STEM related courses, and learn about STEM fields and career opportunities. TPP has worked with NAWCAD in supporting the STEM-ING program since its inception. Once again, STEM-ING took place at SMCM. Throughout the day, over 65 young women heard from Wonder Women, conducted experiments and worked with role models who work in STEM at Pax River, in industry and in academia. They enjoyed interactive activities, challenging STEM workshops and competitions, and lots of pizza! NAWCAD does most of the planning and provides many of the volunteers. As a partner and sponsor of STEM-ING, TPP secures funding for and helps plan the workshops, finds additional funding sources, engages benefactors and members, and recruits volunteers.



As a partner and sponsor of STEM-ING, TPP secures funding for and helps plan the workshops, finds additional 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 usually 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. We had so many talented students apply this year that we awarded five full scholarships. Once again, one of the scholarship winners previously was a TJR apprentice at NAWCAD. The Pathways/ UMD engineering partnership provides opportunities for local students to continue their education while remaining in Southern Maryland.

When students graduate from CSM and continue into the UMD engineering program, NAWCAD provides a pathway that 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.

TPP congratulates the 2024 Pathways Scholarship recipients.

Here are 3 of the 5 Southern Maryland High School graduate recipients Brianna Rouke and Jacob Wait from Chopticon High School, and Cooper Keeley from Calvert High School,



THE PATUXENT PARTNERSHIP PATHWAYS SCHOLARSHIP
APPLICATION FOR 2025 - 2026 OPENS
OCTOBER 31st, 2024

The Patuxent Partnership (PP) Pathways Scholarship will be awarded to promising high school seniors who intend attending the College of Southern Maryland (CSM) and pursuing an engineering or computer science degree at the University of Maryland, Eastern Shore (UMES) in the next year, providing they continue to meet the eligibility requirements and remain in good standing.

Scholarship Eligibility Requirements:

- Must be a U.S. citizen and a resident of Southern Maryland/Calvert, Charles or St. Mary's Counties.
- Enroll at CSM by the end of 2025 (minimum of 12 credits).
- Minimum and maximum award: \$10,000, with program fees that will be designated towards such as COLLEGE & FEE, and to give toward CSM other courses.
- Agree to apply to the Southern Maryland Pathways Program in Engineering, majoring in Electrical or Mechanical Engineering at the University of Maryland, Eastern Shore (UMES), located at the University System of Maryland in Southern Maryland (USM-SM), and attend computer science.

Application begins on October 31st, 2024
<https://csmd.edu/academic/collegeofsouthernmaryland/>
APPLY ONLINE (S.A.C.) on www.sac.edu/ January 31, 2025

Contact information regarding this scholarship, please contact the CSM Foundation at 202-654-7878 or csmfoundation@csmd.edu

COLLEGE OF SOUTHERN MARYLAND

STEM EDUCATION INITIATIVES/ continued

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. Our 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. Given the demand at NAWCAD for physics graduates, 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 2024 - 2025 Academic Year. As we have increased our engagement with the Naval Surface Warfare Center Indian Head Division, the demand for chemistry majors has increased. TPP initiated a new chemistry scholarship for students majoring in chemistry. TPP and SMCM also will work with NSWC Indian Head on chemistry internship opportunities.



Great Mills High School - TPP has supported STEM education and related clubs at Great Mills High School for many years. Cyber Patriot, the Youth Cyber Education Program, brings critical attention to cyber careers in the military, and TPP continues 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 helps students to learn about cyber security and encourages their interest in cyber career opportunities, supporting the critical need for cyber professionals in government. TPP Benefactor Northrop Grumman is a major supporter of Cyber Patriot.

Science Fairs and Expos provide ways to get students interested in STEM and research 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. Some of our local award winners go on to compete at the regional and national level. TPP members volunteer as mentors and judges, and we appreciate their commitment.



TPP Award Ceremony for the finalists of the 2024 St. Mary's County Science and Engineering Fair with Ms. Bonnie Green.

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 business and financial services. TPP has been part of the AOF since its inception. The TPP Finance Director serves on the Program Advisory Council for AOF and is actively engaged with students and faculty. TPP has worked with AOF to incorporate the Project Scope security clearance program in the AOF curriculum and looks forward to broader engagement with the expansion of the AOF program to all three high schools. AOF students are required to participate in an internship opportunity, gaining real world experience that demonstrates the value of their classroom instruction. TPP often has sponsored an AOF intern. TPP is working with the AOF on expanding the AMP/TJR program to include business and finance related opportunities.

STEM EDUCATION INITIATIVES/ continued

Maryland Junior Science & Humanities Symposium

Maryland Junior Science & Humanities Symposium (JSHS) The MD JSHS program is a Department of Defense sponsored STEM program hosted by The Patuxent Partnership (TPP), St Mary's College of Maryland (SMCM) and the Naval Air Warfare Center Aircraft Division (NAWCAD). The JSHS Maryland Regional Competition promotes study in the sciences, technology, engineering, and mathematics fields at the high school level. It publicly recognizes talented students for outstanding achievement, connecting them with research professionals and rewarding research excellence. JSHS is a means to widen the pool of trained talent prepared to conduct research and development vital to Maryland and our nation. The Department of Defense, along with the U.S. Army, Navy, and Air Force, jointly sponsor undergraduate tuition scholarships and cash awards for student finalists in the Regional and National Symposia.

TPP has collaborated with NAWCAD and SMCM for six years to host the Maryland JSHS. The MD JSHS epitomizes the importance and value of our Educational Partnership Agreement with NAWCAD and SMCM. The JSHS sponsorship is critical to introduce students to STEM careers across the Defense Industrial Base.

The MD JSHS Regional Competition took place on February 24th. Welcoming remarks were given by Ms. Bonnie Green. Dr. Troy Townsend, Associate Professor of Chemistry, SMCM and TPP board member, served as moderator for the competition. The keynote speaker was Dr. Anthony Malatesta, Director of Engineering Education & Research Partnerships, NAWCAD. The students also heard from Dr. R. Carl Brothers, PhD, Acting Deputy CTO Research and Development Division, NSWC Indian Head Division (IHD), SMCM Alum'10, and from Ms. Joan Popoola, Mechanical Engineer, NAWCAD, CSM Alum '20.

There were 20 student finalists – 10 students gave oral presentations, and the other 10 poster presentations. The depth of the student research data shared, the diversity of the topics, responses to questions was outstanding. Their work with teachers, mentors, research labs and others was evident in their presentations. The judges had a challenging task.

The judges were L to R: VADM. (ret) Dean Peters; Mr. Phillip Melton, Electrical Engineer, ESD Technical Agent Team Lead; Dale Moore, Ed.D, Founder and President, The Moore Group LLC; Mr. Karel Almeyda-Blas, Computer Engineer & Scientist - ESD Technical Agent, NSWC Indian Head Division (IHD); Ed Copeland, PhD Naval Aviation Research, Development Acquisition, Test & Evaluation, Subject Matter Expert, TPP; Mr. Kenneth Evans, Electronics Engineer, ESD Technical Agent, NSWC Indian Head Division (IHD); Owen Lewis, PhD, President, (ret) Photon Research Associates, Raytheon; Andrew Koch, PhD, Engineering Psychologist, NAWCAD; Martin Chernoff, PhD, Engineer, NSWC IHEODTD.

The National JSHS was held March 20th - 23rd in Albuquerque, New Mexico. Four 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 Patuxent Partnership and Ms. Bonnie Green, the Maryland Regional Director, commend and congratulate our JSHS Maryland Student Delegates.

Camille Coffey, Baltimore Polytechnic Institute, went on to win 3rd Place in Oral Presentation, Life and Behavioral Sciences category in the National Symposium and Karthik Muthkkumar, Urbana High School, took 2nd Place Poster Presentation in Engineering and Technology category.

TPP recognizes the help and support these students received from their teachers, parents and others who have supported them during this competition.



Cover of the 2024 MDJSHS program



The distinguished panel of judges



The MD JSHS Regional finalists.



Regional MD JSHS finalists go on to win in National JSHS competition:
Camille Coffey, 3rd Place in Oral Presentation, Life and Behavioural Sciences category.
Karthik Muthkkumar, 2nd Place Poster Presentation in Engineering and Technology category.



SoMD 2030 WORKFORCE DEVELOPMENT INITIATIVE

Identifying, hiring and retaining talent in Southern Maryland



AMP/TJR Apprentices at the Forest Tech Center

SoMD 2030 is a collaborative effort funded by the Naval Air Warfare Center Aircraft Division (NAWCAD) and executed by The Patuxent Partnership (TPP) under its Partnership Intermediary Agreement (PIA) with NAWCAD. The initial SoMD 2030 funding was awarded in October 2022.

SoMD 2030 connects talented students with paid apprenticeships and internships in Southern MD. It contributes to the success of the TechJobsRule (TJR) high school apprentice program in SMCPs and is affiliated with the Apprenticeship Maryland Program (AMP). TJR engages with NAWCAD, TPP member companies and the AMP approved employers in St. Mary's County. The college internship opportunities with local industry, government & non-profits lead to career opportunities and further education.

NAWCAD provides seed funding to get students into jobs in the STEM career pipeline. The Southern Maryland Navy Alliance worked for several years to get this workforce funding.

TechJobsRule/ AMP

A partnership between the Forrest Technology Center (SMCPs), The Patuxent Partnership (TPP) and the Strategic Education Office (SEO) of Naval Air Warfare Center Aircraft Division (NAWCAD), TJR's talented high school students interested in STEM, business operations and manufacturing careers are provided with paid apprenticeship opportunities in local industry and government. Apprenticeship Maryland Program (AMP) is a program facilitated by the MD Department of Labor, as part of the Youth Apprenticeship – MD Apprenticeship and Training Program. Companies are approved by MATC as a youth apprenticeship employer.

Local industry and government agencies determine their need for skilled workers in a particular fields. If so, they offer paid apprenticeships in that area.

Students entering their final year of high school and having completed at least 1-2 years of a Forrest Technology Center program are eligible to apply for these paid apprenticeships. The participating organizations interview the students and make selections based on the students' resumes and interviews.

An individualized work plan is developed for each apprentice by an apprenticeship coordinator working with representatives from the business/agency. Apprentices work a minimum of 450 hours during the academic year (with an option to start early in summer).

Programs at the Forrest Technology Center include:

- Academy of Health Professions
- Automotive Refinishing
- Automotive Technology
- CADD
- Carpentry
- Manufacturing Engineering Technology
- Culinary Arts
- Diesel Technology
- Digital Media Productions
- Electrical Wiring
- Engineering
- Graphic Communications
- Hospitality and Tourism
- IT Networking
- Certified Medical Assisting
- Natural Resources Management
- Teacher Academy
- TV/Video Production
- Welding



Benefits of the AMP/TJR program for students include:

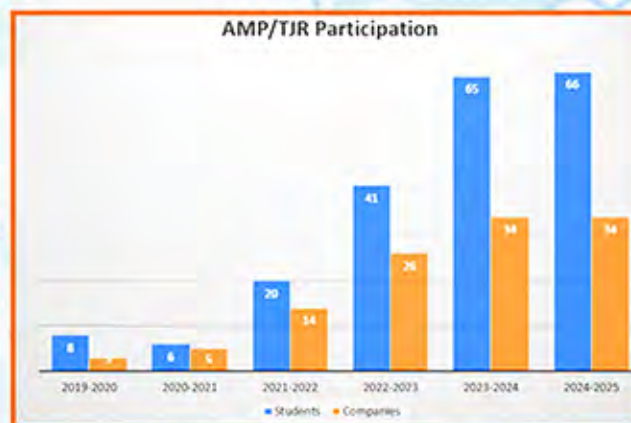
- An apprenticeship in a high demand career field while also earning credits towards high school diploma
- Learning from mentors who are leaders in their field and their companies
- Gaining valuable hands-on experience
- Earning money while learning valuable skills

Benefits of the AMP/TJR program for companies:

- Student apprentices have had basic training and are eager to learn. They can be trained in areas which companies have recurrent or future demands.
- No retraining. Apprentices are trained in your company's procedures and policies without having to "unlearn" something from elsewhere.
- Apprentice coordinators help create the Work Plan, monitor student progress, assist company mentors and help instill and reinforce soft skills in apprentices.
- Short term hires with option to offer apprentices full time employment.

Data/Growth

AMP/TJR Program has grown from 8 students to 66 students in 6 years.



SY23-24 St. Mary's County Public Schools Apprentices - Plans after Graduation										
15	9	9	1	23	2	1	18	7	65	
FT TJR employer	PT TJR employer	FT other	PT other	CSM 19 FT 4PT	SMCM	UMD	Other higher education institution	union	TOTAL APPRENTICES	



Summer 2024 College Internship program



The summer cohort of 43 interns participated in an eight-week internship at 32 companies in the tri-county area. Over 240 college students applied for the program. Internship criteria was based on standards from the National Association of Colleges and Employers (NACE). Companies were required to provide meaningful work/projects for the interns with clearly defined learning objectives/goals that aligned to the professional goals of the students' academic work. All this was under the supervision of a professional with the background and expertise in that field of experience. Interns completed a 240 hour program.

Interns also were required to participate in weekly professional development sessions.

- Mattering
- Human-centered design thinking activity
- Self-development and Mentorship
- Team dynamics and conflict resolution
- Professional Branding and Resume Updates

On July 2, almost 120 interns and young professionals gathered at the Patuxent River Naval Air Museum for a MEGA Intern and Young Professionals Networking and Social Event co-sponsored with the St. Mary's County Department of Economic Development.

It was a great opportunity for them to meet new people, have fun with the museum scavenger hunt and learn more about naval aviation all while having fun making new connections.

Both interns and supervisors completed mid-summer and end of program evaluations on the intern's performance and the overall program. Interns were evaluated on eight NACE career competencies, According to NACE, career readiness is a foundation from which to demonstrate requisite core competencies that broadly prepare the college educated for success in the workplace and lifelong career management.

NACE Career Competencies

- | | | | |
|--|---------------------------|--|-----------------|
| | Career & Self-Development | | Leadership |
| | Communication | | Professionalism |
| | Critical Thinking | | Teamwork |
| | Equity & Inclusion | | Technology |

View Summer 2024 internship program highlights here:



View video of Summer 2024 internship highlights by scanning this QR code:

Special thanks to the following companies for hosting interns:



SUMMER 2024 COLLEGE INTERNSHIP COMPANY PLACEMENTS

SUMMER 2024 COLLEGE INTERNSHIP ABOUT THE INTERNS



RACIAL CATEGORY	Placed
American Indian	1
Asian	3
Black	5
White	34
Latino/a	4

43
INTERNS

Class Year	Placed
Rising Sophomores	10
Rising Juniors	21
Rising Seniors	12

Gender	Placed
Female	20
Male	23

WHERE THEY'RE FROM...							
Anne Arundel	Calvert	Caroline	Charles	Harford	Montgomery	Prince George's	St. Mary's
1	6	1	1	1	3	4	21



Spark! Student Career Awareness Fair 2024

Internship job titles

Automation Engineer Intern 1
 Business Operations Intern 2
 Business/Finance Intern 1
 Communication and Outreach Intern 2
 Customer Relationship Management Intern 1
 Cyber Engineer Intern 1
 Data Analyst Intern 8
 Electrical Engineering Intern 1
 Engineer Intern 4
 Graphic Designer Intern 1
 Information Technology Intern 5
 Market Research Intern 1
 Museum Assistant - Intern 2
 Non-profit Assistant Intern 1
 Operations Research Analyst - Intern 1
 Public Affairs Officer Intern 1
 Program Analyst Intern 1
 Quantum technology intern 1
 Software Engineering Intern 2
 Software Technical Data Intern 1
 Systems Administration intern 2
 Systems Engineer Intern 2
 Unmanned Air Systems (UAS) Software Engineer Intern 1

Spark! Student Career Awareness Fair

The 2nd annual Spark! Fair hosted on February 1, 2024 featured 900 students from Calvert, Charles, and St. Mary's Counties. Spark! provides high school students in Southern MD with face-to-face interactions and opportunity to talk with professionals from the Navy/government, health, commercial and trades that provided an insider's perspective of what it's like to work in a specific industry.

Students experienced a variety of programs of the Navy at Pax River, as well as opportunities in health, commercial, public safety and trades located in their own backyard, while learning about the skills and requirements needed to succeed in each field.

32 organizations participated

- Air Combat Effectiveness Consulting Group (ACE Group), LLC
- AVIAN
- Calvert/Charles/St. Mary's County Dept of Economic Devel.
- Cogito Innovations
- College of Southern MD
- Eagle Systems
- International Brotherhood of Electrical Workers (ibew #26)
- MedStar Health | MedStar St. Mary's Hospital
- Naval Systems, Inc.
- NAWCAD Air Systems Group | NAWCAD ATMO | NAWCAD DAitA - Integrated Battlespace Simulation & Test | NAWCAD DAItA - ATD - COLOR NAWCAD DAitA - Cyber Warfare Dept | NAWCAD DAItA- Prototyping, Instrumentation & Experimentation/ Atlantic Ranges & Targets (PIE/ART) NAWCAD DAItA - Warfare Effectiveness Dept | NAWCAD Fab Lab NAWCAD UX-24 | NAWCAD WOLF
- NSWC Indian Head Robotics
- Platform Aerospace
- Precise Systems, Inc.
- Resource Management Concepts, Inc.
- St. Mary's County Government - Dept of Emergency Services
- St. Mary's County Sheriff's Office
- T-12 Technologies
- UMCES Chesapeake Biological Lab
- UM Charles Regional Medical Center
- UMD- A. James Clark School of Engineering / MATRix @USMSM
- U.S. Naval Test Pilot School
- Zen Well Studio, LLC



Spark! Student Career Awareness Fair 2024

- 900 high school students from:
- Calvert County Public Schools
 - Charles County Public Schools
 - St. Mary's County Public Schools
 - St. Mary's Ryken HS
 - King's Christian Academy
 - Home school communities



SUPPORT OF BLUEPRINT FOR MARYLAND'S FUTURE

The Blueprint for Maryland's Future legislation passed in 2021, which includes comprehensive changes to nearly every aspect of Maryland's public education system. Increasing annual education funding by over \$3.8 billion over the next 10 years, the Blueprint will enrich student experiences, accelerate improvements to student outcomes, and improve the quality of education in Maryland. (<https://blueprint.marylandpublicschools.org>)

Pillar 3, focused on College and Career Readiness, sets a new CCR standard that prepares graduates for success in college and the workforce by ensuring they have the knowledge and skills to complete entry-level credit-bearing college courses and work in high-wage and high-demand industries. Highlights include – new college and career readiness standard by 10th grade, aligned curriculum resources and assessments, college and career readiness and support pathways, expanded career and technical education system.

TPP's longstanding STEM outreach and support, in addition to SoMD 2030 Workforce Development initiatives, provide opportunities for strengthening relationship with the public schools in Calvert, Charles and St. Mary's counties, ultimately growing pathways for further educational and career opportunities.

SoMD 2030 Workforce Development Initiative/ Summer Camps

SMCM Summer Camp with Dr. Troy Townsend

One-week SMCM Solar Cell Camp - 24 students in 8-12th grade.

Camp activities included:

- Team building
- Lecture by Jeff Shaw, VP Distributed Energy and Sustainability at SMECO on Current Technology and Challenges
- Dr. Troy Townsend led a discussion on The Future of Global Power Sources
- Dr. Michelle Milne spoke on physics fundamentals needed to build solar powered cars
- Dr. Emily Brownlee spoke about The Biology of Solar Power
- Computer aided design workshops
- Laboratory Tours of STEM Programs and Final CAD Designs, SH 151 with Jeff Croisetiere, Owner at Grounded Solar LLC PV Installer and Benjamin Fisher, Senior Technical Trainer at Tesla.

Presenting the 2nd annual
SOLAR CELL STEM CAMP
 June 24 - 28 2024 (9 am - 3 pm)
 And...we're off...again!

DATE: FREE
LOCATION: St. Mary's College, Schollar Hall
Participants: High school students
3 SMCM Professors
3 SMCM Student Interns
SMCM College Campus

- Learn about Solar Power
- Work in Teams
- Build Solar Race Cars
- Learn Computer Aided Design (CAD)
- Learn coding for microcomputers
- 30 prize your month, NICE!

Students will be introduced to a multidisciplinary experience with hands-on activities, online learning, and in-person instruction from SMCM's faculty members. Current and former energy design firms, students will design and build solar-powered racers. With training about current state-of-the-art solar cell technology, the physics and biology of solar power, students will use a Computer Aided Design (CAD) program to design their own unique models and bring them to life with 3D printing. Followed by testing and analyzing and debugging. In the process, they will collaborate with each other and work closely to develop and test solar cell devices in the lab. They will also be required to give a presentation of their solar cell device and share the results. Activities, demonstrations, and modeling. Key program educational objectives to program activities, LED's and sensors. Learning outcomes include: project management skills, communication, group collaboration, building, service, technical laboratory skills, lab safety and an introduction to sustainable energy conversion and manufacturing.

APPLY HERE:
<https://www.stmarys.edu/academics/summercamp/>
 Application Deadline June 15, 2024
 For questions, contact:
 Dr. Troy A. Townsend
ttownsend@stmarys.edu





ST MARY'S
 COLLEGE of MARYLAND
The National Public Honor College



STEM Summer Camp at USMSM for Future Problem Solvers

The A. James Clark School of Engineering of the University of Maryland at College Park, hosted a free summer camp program at the University System of Maryland at Southern Maryland (USMSM) funded by NAWCAD, SoMD 2030 for high-school students who interested in STEM (science, technology, engineering, and mathematics) fields of study. Students learned mechanical design, electronics, coding, engineering and math skills, as well as collaboration and teamwork. The goal is to develop these diverse skills to solve problems and encourage innovation.

Program Highlights:

- Participants built and coded rovers and put their creations to the test. First to complete a lap on a racetrack go head-to-head in a drag race.
- Participants had the opportunity to fly aircraft in the flight simulators at the MATRIX Lab.



UMD Summer Camp with Dr. Danelo Romero

 **UNIVERSITY OF MARYLAND**

2023 TPP Member of the Year: Precise Systems



For more than 30 years, Precise Systems has steadily grown, scaling their solutions to support U.S. Department of Defense programs and to innovate for our nation's warfighters. Their team of highly skilled individuals has perfected the ability to manage tasks, no matter how difficult or complex, through a suite of solutions-based capabilities.

These capabilities include expert consultation on network and weapons systems acquisition programs, maintenance/modernization programs, and sustainment programs with solutions in Digital Transformation, Advanced Engineering, Physical Sciences Research, Platform Lifecycle Support, and Interactive Training and Simulation.

With a workforce across the U.S. and beyond, Precise is intensely focused on maintaining a global presence with local impact. No matter where their talent sits, each employee shares a strong commitment to delivering the highest quality of service to our government and industry partners.

Since their founding in 1990, the culture of Precise has been uniquely marked by their commitment to their people. They are proud of the solutions they provide and have a workforce of outstanding, motivated, and highly skilled professionals who focus their talent and efforts on the accomplishment of their customers' mission. Their culture positions the Precise Team to provide exceptional service to their customers.

This incomparable culture has allowed Precise the growth to now support 41 prime contracts, providing solutions to the U.S. Department of Defense and

Precise play an integral role in the development and execution of several high visibility programs. Their team develops acquisition strategies, integrated master program schedules, budget baselines, and milestone documentation in all phases of the acquisition lifecycle.

With the growth they have experienced as an integral part of the NAVAIR community, Precise has had the unique opportunity to partner with Their government customers to funnel highly specialized talent into the local community.

Precise incorporates sustainable practices that integrate our environmental, social, and economic activities with their goal of becoming an "industry leader."

In the workplace, they've targeted several key areas to build a sustainable organization and significantly reduce their carbon footprint.

Among their activities Precise provides a flexible work environment, basing employees closer to their homes, telecommuting, co-location, and remote worksite arrangements, reducing commute times and carbon footprint while improving quality of life.



Precise Systems accepting their '2023 TPP Member of the Year Award' at the TPP Annual Dinner.

THE INTERGOVERNMENTAL PERSONNEL ACT (IPA) MOBILITY PROGRAM



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

The IPA Program is an authorized, and currently in-use OPM tool for DoD to acquire critically needed subject matter expert (SME) for Federal agencies to bridge the gap to fill positions.

The benefits of the IPA Program to Sponsoring Organizations include:

- Government Authority – IPAs are authorized to represent the government.
- Value – IPAs bring specific expertise to hard-to-fill positions quickly and are an affordable, cost-effective program to meet urgent/specific workforce requirements (not included in personnel ceiling).
- Simple and rapid to implement – TPP employees are detailed to government organizations to address critical capability gaps or requirements. TPP provides all personnel management / HR functions.
- Flexible – agreements cover limited-term projects requiring specific expertise, frequently, but not exclusively, in science and technology.
- Scalable – IPA agreements meet the requirements of the sponsoring organization.
- Specialized Subject Matter Expertise – TPP IPAs are recognized SMEs who communicate with one another and leverage knowledge to the benefit of their sponsoring organizations.

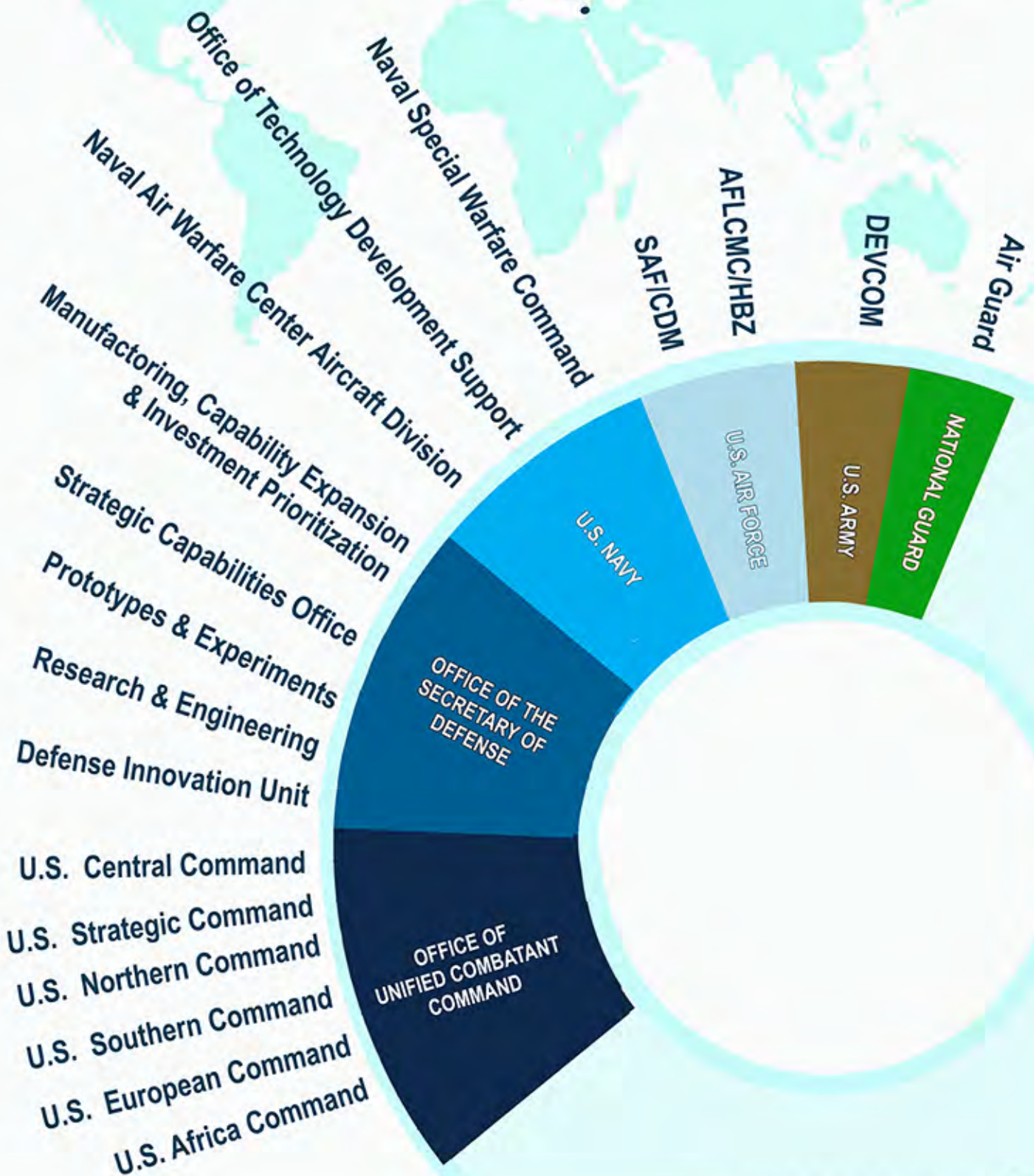
TPP's ongoing engagement with sponsoring organizations also serves to connect and support. TPP IPAs are respected leaders in science and technology, many are retired military/civilian personnel, with first-hand knowledge of warfighter capability needs. IPAs connect the dots between emerging technologies 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 may supervise employees and commit financial resources.

For information on TPP's IPA Program please contact:

Bonnie M. Green, Executive Director | bonnie.green@paxpartnership.org

MaryKay Myers, Finance Director | marykay.myers@paxpartnership.org

IPA DISTRIBUTION



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Member at Large
SVP Business Development
at MIL Corp



Bonnie Marie Green
Executive Director
The Patuxent Partnership



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Senior Manager
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Heidi Fleming
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President/CEO
HTii



Yolanda Wilson,
Ed.D. President,
College of Southern
Maryland



Steve Cricchi
DOD Liaison -
Executive Director,
NAWCAD

COMMITTEES

BOARD GOVERNANCE

The Board Governance Committee ensures that the board composition and structure is in compliance with the bylaws, with 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

Executive Director, **Bonnie Marie Green**
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Intern, **Daisha Jones**, SMCM Student

TPP Annual Dinner, Historic St. Mary's City

We were graced with a beautiful spring evening at Historic St. Mary's City for the TPP Annual Dinner on Tuesday, May 21, 2024. Historic St. Mary's City, the first capital of Maryland, has been the setting for the TPP Annual Dinner for many years, and it never disappoints.

More than 300 members and guests, caught up with friends and colleagues while enjoying libations and the sunset on the St. Mary's River. Historic St. Mary's City has been the setting for the TPP Annual Dinner for many years, and it never disappoints. Dinner was called and we moved on to the pavilion.

TPP Executive Director Bonnie Green welcomed everyone and introduced some special guests. Executive Director, Steve Cricchi, NAVAIR Deputy Commander, Tom Rudowsky, VADM Francis "Spanky" Morley, Principal Military Deputy for the Assistant Secretary of the Navy Research, Development & Acquisition, RADM John "Doc" Dougherty, SMCM President Dr. Jordan, Deputy Director Command Operations NAVAIR, Ms. Adrienne Somerville, College of Southern Maryland President, Dr. Yolanda Wilson, PRNAM Executive Director, Dr. Scott Gray, St. Mary's County Commissioner President Randy Guy, John L. Seidel, HSMC Executive Director, TPP board members, and so many others who were there for the evening.

Bonnie spoke briefly about the many ways our members are engaged in the community and that the TPP Annual Dinner is an opportunity to recognize TPP's activities and engagement, to celebrate our members, renew acquaintances, and to celebrate one another.

John L. Seidel, Ph.d, executive director, HSMC spoke about exciting happenings at HSMC and extended his welcome.

The National Anthem once again was poignantly rendered by TPP board member Matt Scassero and Director of Government Relations, MD Department of Agriculture, Rachel Jones. Former TPP board member Joe Anderson offered the invocation. Their participation has become a tradition for the TPP Annual Dinner.

After dinner, Bonnie and TPP Board President Doug Belvin introduced the 2024 Member of the Year, Precise Systems. Accepting the award for Precise were CEO and President, Mr. Scott Pfister, Mr. John Amsden, CSO, and Mr. Hank Vanderborght, COO. They were joined by colleagues for photos.

TPP Board President Doug Belvin was pleased to introduce our speaker and special guest VADM Francis "Spanky" Morley, Principal Military Deputy, Assistant of the Secretary of the Navy for Research, Development & Acquisition, who was as entertaining as ever, starting with how he ended up as speaker after several speakers cancelled. He went on to talk about some of the vital work being done and the value of TPP to the community.

Bonnie thanked the dinner sponsors for their support. Diamond Sponsors: Northrop Grumman Corp; Platinum Sponsors: Naval Systems Inc., MIL Corp; Gold Sponsors: ASEC, BTAS, SAIC, ITC Defense; Silver Sponsors: SERCO, VTG.

ANNUAL DINNER 2024





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