



Goddard Space Flight Center's Wallops Flight Facility

Wallops Regional Partners Meeting
Dave Pierce, Director

Upcoming Wallops Launches



- Aug-October. RockSat-X, SubTec (education/technology)
- July-October CAMPEX P-3 aircraft campaign
- August-October WSMR Sounding Rockets Campaign
- August-October Ft. Sumner NM Balloon Campaign
- Sept 8-10 US Navy Launch GQM-163A Target
- NET November 2 Antares NG-12 Launch - **Initial CRS-2 Mission**
- November WSMR Sounding Rockets Campaign
- November Sounding Rockets Grand Challenge (Norway)
- February (NET Feb 29) L-129 (Minotaur IV)
- March Rocket Lab Electron - **Inaugural launch from U.S.**



Actions and Updates from July Regional Partner Meeting

<u>Wallops Action</u>	<u>Update</u>
<ul style="list-style-type: none">• Work to develop community relations, educational pipeline, technical workforce needs, and inspiration for local students	<ul style="list-style-type: none">• Met with Drs. Heidi Anderson (President) and Robert Mock (Chief of Staff) from UMES<ul style="list-style-type: none">• Draft memorandum of understanding in work to allow for further partnerships and collaboration• Target MOU completion date: November 2019• Hosted Drs. Charles Wright (President) and Karen Olmstead (Provost and Senior VP for Academic Affairs) at Salisbury University for a tour and to discuss future opportunities.• Met with Mike Dunn on “Space Day” concept, created at July Regional Partner Meeting<ul style="list-style-type: none">• WFF to support the JA Inspire Event, to be held February 27, 2020 at the Ocean City Convention Center• Scheduled visit to Wicomico County Public Schools Career and Technical Education Center• Working to establish a face-to-face meeting with the Superintendents of Wicomico, Worcester and Somerset County public schools.• Met with Bill Chambers to continue conversation on strategic planning<ul style="list-style-type: none">• Working to arrange a visit by Governor Hogan.• Will participate in 2020 Southern Delmarva Economic Forecast (December 6th)• Re-developed the Wallops Contractor’s Association



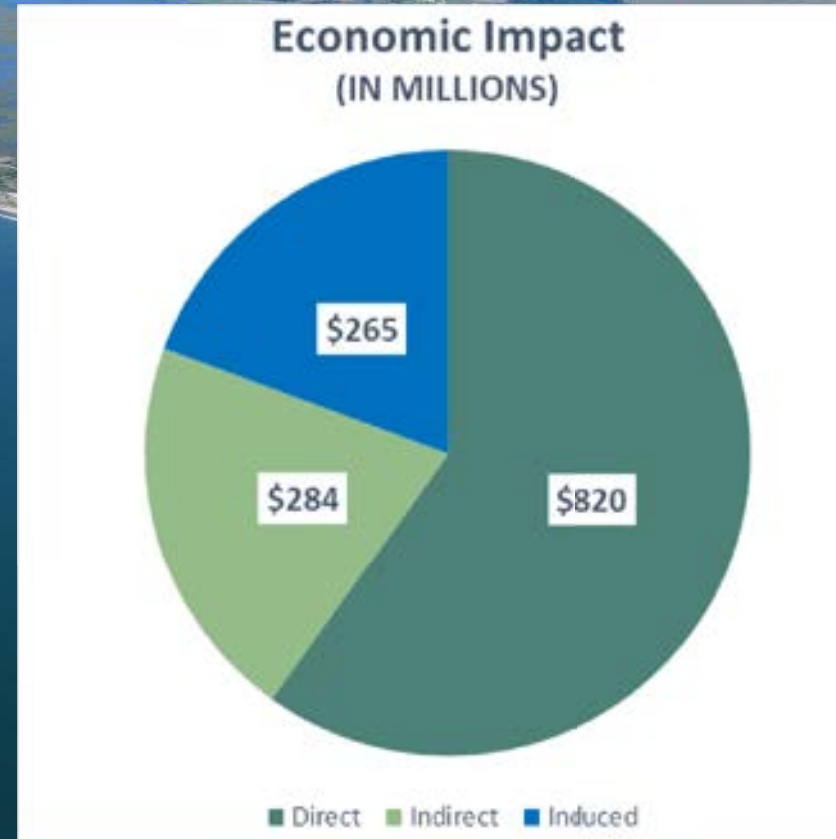
Actions and Updates from July Regional Partner Meeting

<u>Wallops Action</u>	<u>Update</u>
<ul style="list-style-type: none">Develop economic data to include Wallops partners, such as the U.S. Navy, NOAA, and Virginia Space	<ul style="list-style-type: none">Working with Dr. Memo Diriker from Salisbury University to further current economic information and expand to include the greater Delmarva areasCreated baseline data developed from reports from Wallops partners



The Economic Impact of Wallops Island

- **Total economic impact of Wallops Island is estimated at \$1.37B**
 - Direct impacts are estimated at \$820M
 - Indirect impacts are estimated at \$284M
 - Induced impacts are estimated at \$265M
- The installations and organizations currently associated with the **Wallops Island Aerospace Cluster** are NASA WFF, the U.S. NAVY SCSC, NOAA, the U.S. Coast Guard, Virginia Space, Northrop Grumman Innovation Systems, and Rocket Lab, USA.



Report Prepared for VCSFA by:

Dr. Larry Filer, Associate Vice President for Entrepreneurship and Economic Development
Old Dominion University

*The opinions and estimates in this report do not necessarily represent the views of ODU



Wallops By the Numbers

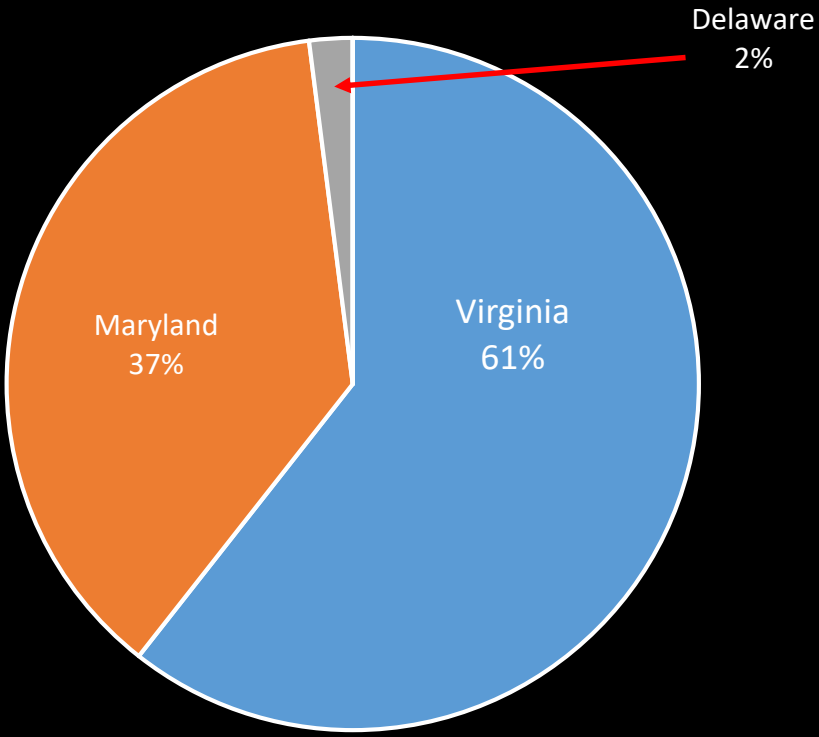


- 285 NASA civil servants
- 865 NASA contractors
- 600 Tenant personnel from:
 - U.S. Navy
 - NOAA
 - Virginia Space
 - Rocket Lab
 - Coast Guard
- Annual Budget: \$335 million
- Economic Impact : **\$1.37 billion** and 6,092 jobs
- \$1.2+ billion in assets on Wallops Island

Wallops Complex Employee Data

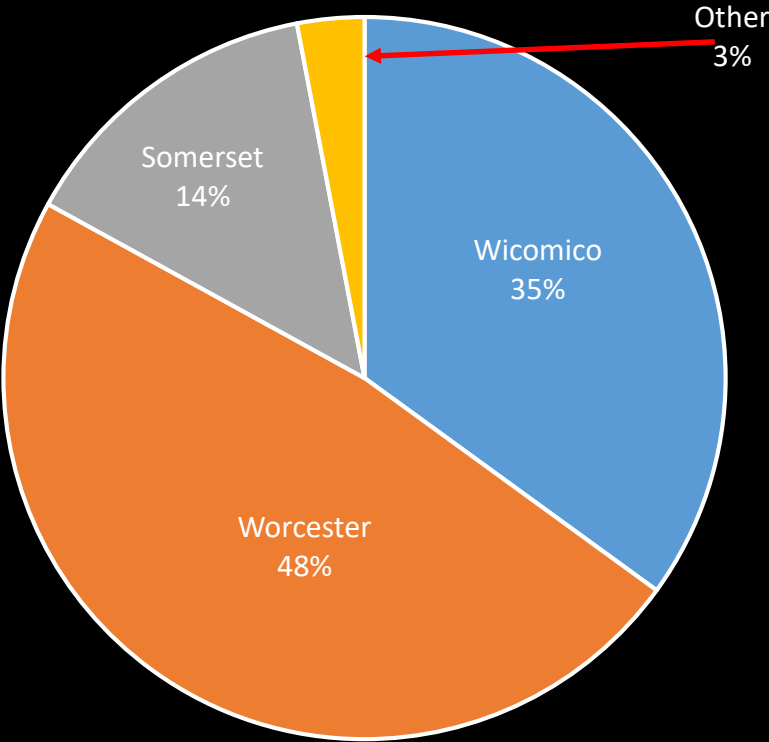
**Data represents total data reported by NASA, NOAA, Navy, and Virginia Space*

Breakdown by state



In Virginia, 99% of residents live in Accomack County.

Breakdown by Maryland County



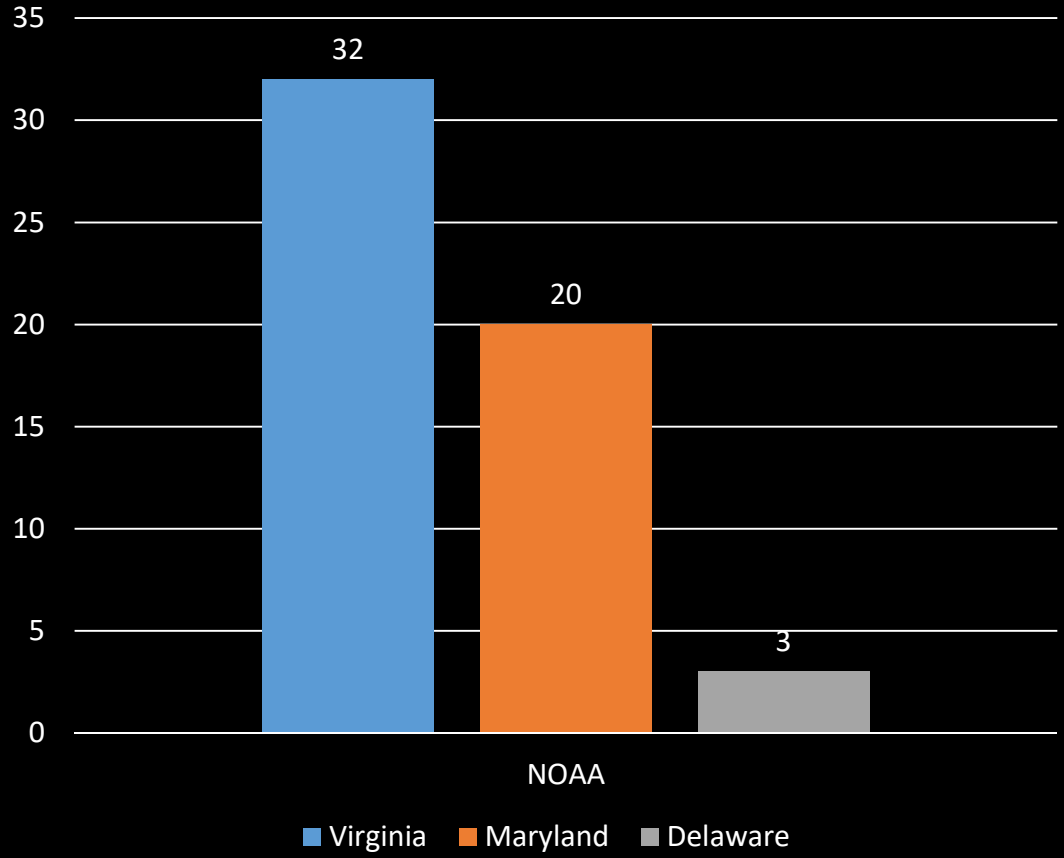
■ Virginia ■ Maryland ■ Delaware ■ Other

■ Wicomico ■ Worcester ■ Somerset ■ Other

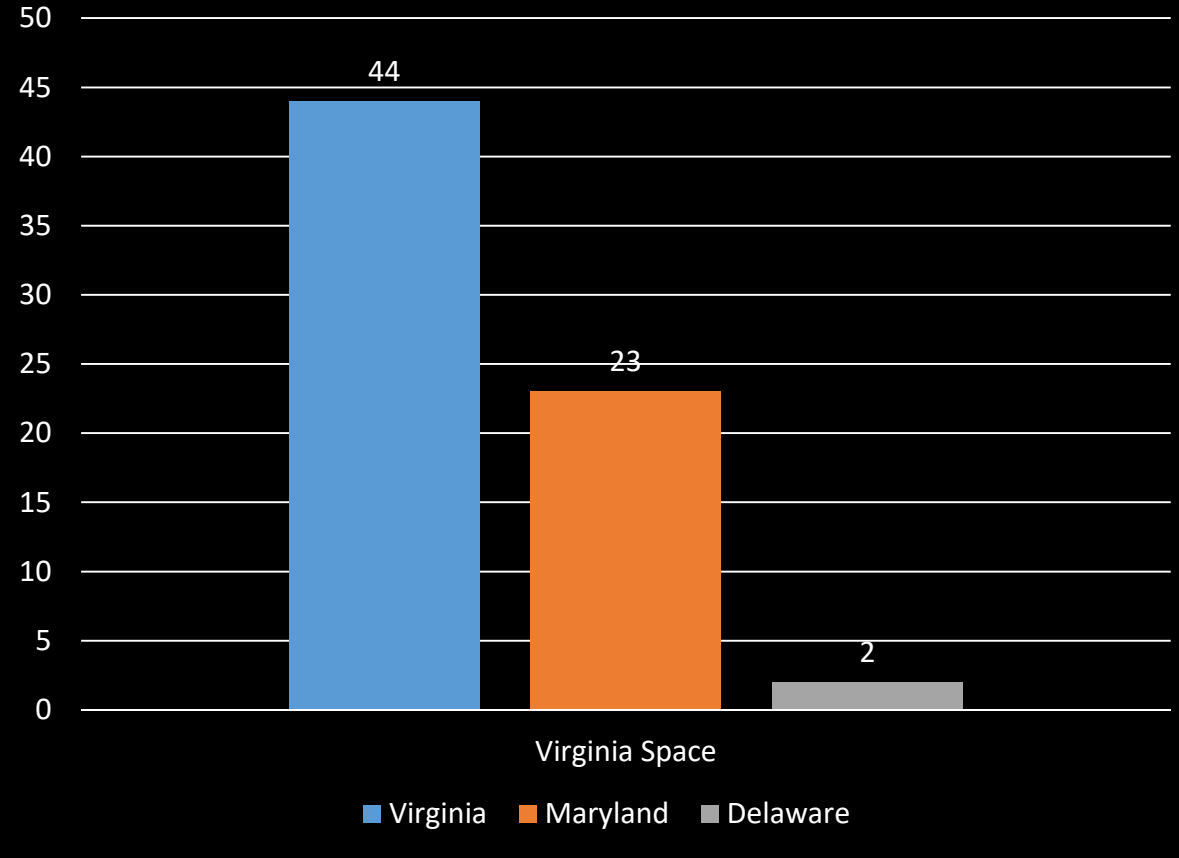


Wallops Complex Employee Data

NOAA Demographics

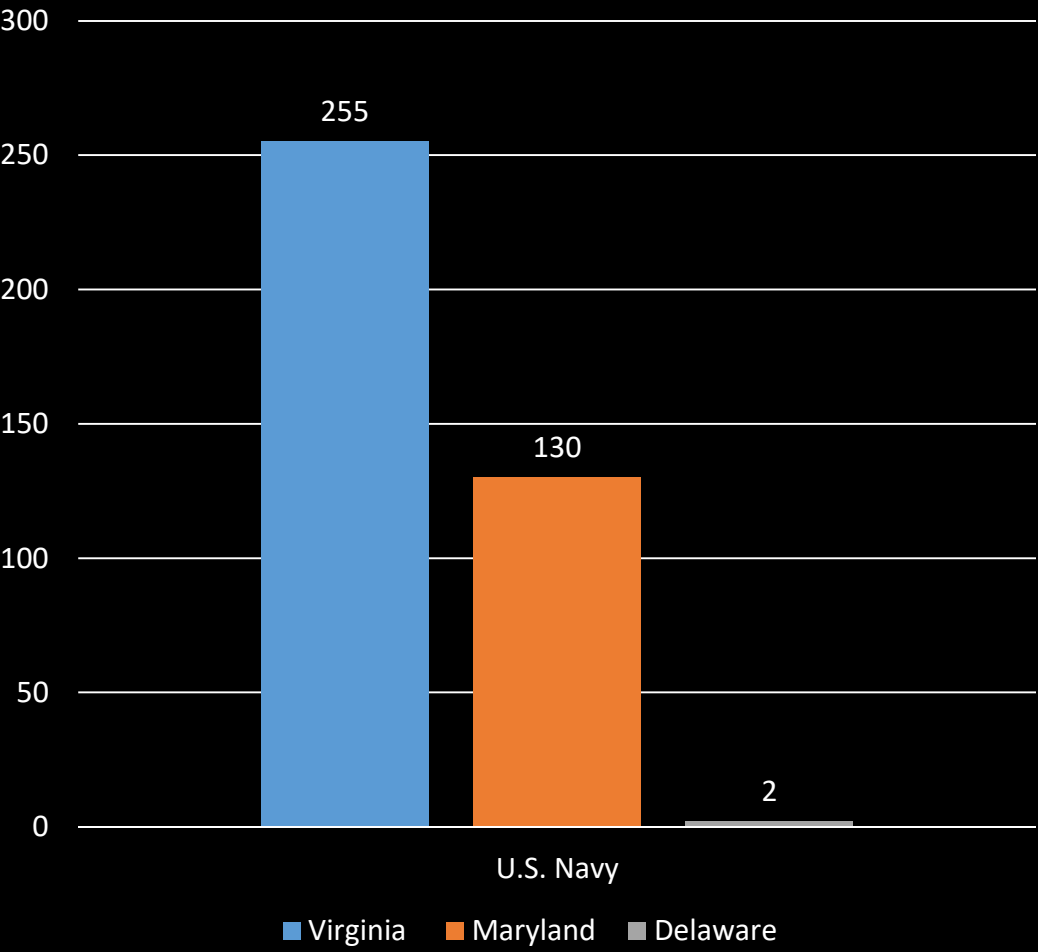


Virginia Space Demographics

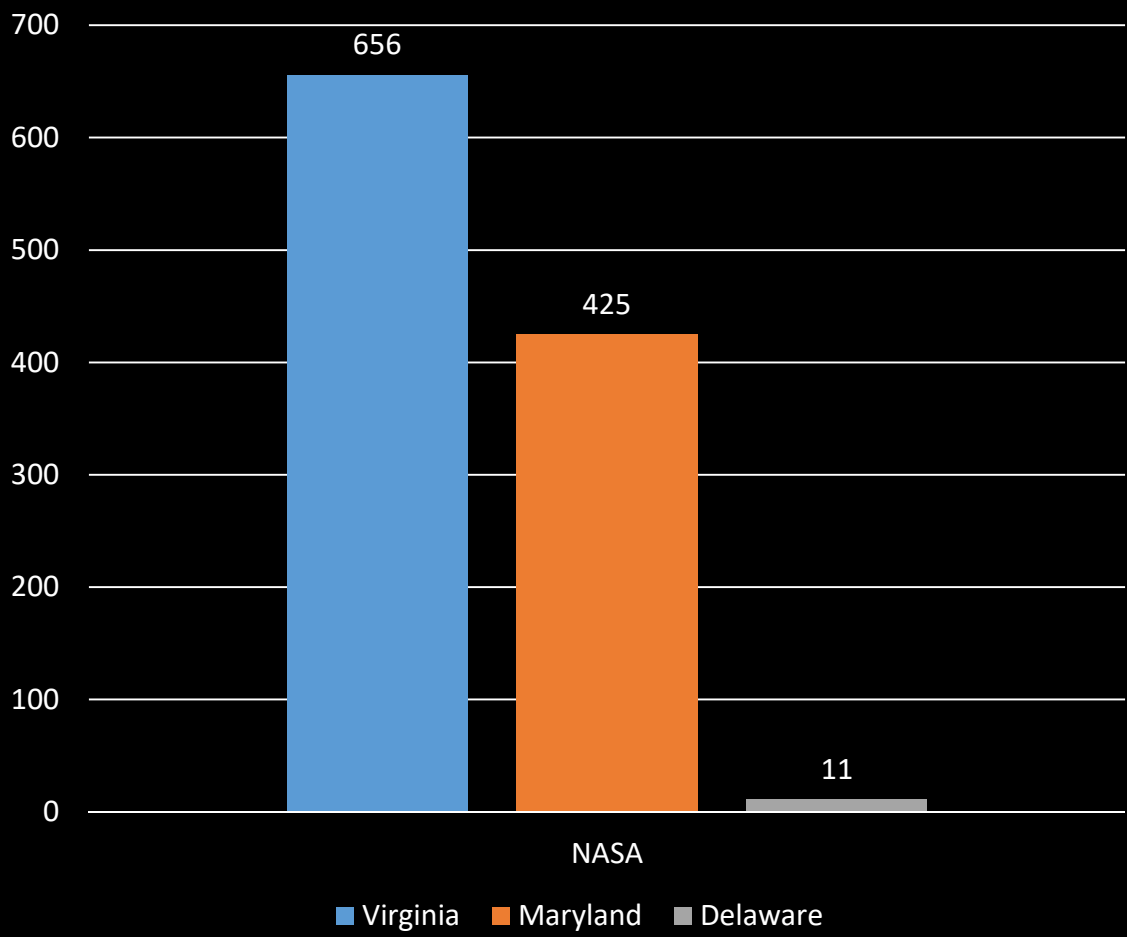


Wallops Complex Employee Data

U.S. Navy Demographics



NASA Demographics



JA Inspire



Draft JA Inspire Plan

- Planning to participate by including exhibits from: sounding rockets, Wallops Range, Scientific Balloons, Aircraft Office, Earth Science, SmallSat/CubeSats, Wallops Education, Wallops Social Media
- Planning to have various Wallops contractor participation to show wide array of jobs needed to make Wallops missions successful
 - Offer information on how to obtain an internship or a full-time job with these organizations
- Local partner participation (U.S. Navy, NOAA, Virginia Space, Chincoteague Bay Field Station)
- Potential hands-on activities:
 - Internship Application assistance
 - Building Model Rockets
 - Mentoring/Coaching
 - Selfie station





2020
Southern Delmarva
**ECONOMIC
FORECAST**
Presented By

"BOOM OR BUST: How Should We Read the Economic Tea Leaves in 2020?"

Friday, December 6, 2019
Salisbury University
Academic Commons - 4th Floor
7:30 am
2020 Economic Forecast

12:30 pm - 2:00 pm
Eastern Shore Delegation
Luncheon

Full Event
Members
\$75
Full Event
Future Members
\$100

The Eastern Shore Delegation Luncheon

Eastern Shore Delegation Preview of the 2020 General Assembly Preview
Annual ShoreTRENDS Survey Results, Dr. Memo Diriker, BEACON at SU

2020 Economic Forecast Speakers



What's Next?

The Southern Delmarva Economy

Our Economic Development Directors:

*Kathryn Gordon, Worcester County
Daniel Thompson, Somerset County
Susan Banks, Dorchester County
Dave Ryan, Wicomico County
William Pfaff, Sussex County, Delaware
Rich Morrison, Accomack County, Virginia*

Key Note Speaker

*Anirban Basu - Invited
Chairman & CEO, Sage Policy Group*

Education and Healthcare – Linked to a Healthy Economy

*Dr. Clifford Copperfield, Chesapeake College
Dr. Ray Hoy, Wor-Wic Community College
Dr. Charles Wight, Salisbury University
Dr. Heidi Anderson, University of Maryland Eastern Shore
Dr. Donna Hanlin, Wicomico County Public Schools
Steve Leonard, Peninsula Regional Medical Center*

Transit, Transportation and Aerospace – Planes, Trains and Rocketships

*Greg Slater, Maryland Department Transportation
Cliff Grunstra, Delmarva Central Railroad
David Pierce, Director NASA Wallops Flight Facility*

BEACON at Salisbury University – Thirty Year Anniversary

Memo Diriker, BEACON at Salisbury University

Pre- Legislative 2020 Session Forum – Lower Shore Legislative Delegation Q and A



Sponsorship Opportunities

Salisbury Area Chamber of Commerce is pleased to present the 2020 Southern Delmarva Economic Forecast on Friday, December 6, 2019, at its permanent home, Salisbury University.

This event is the region's premier economic outlook presentation, presented in conjunction with Salisbury University, and its Franklin P. Perdue School of Business and Business Economic and Community Outreach Network (BEACON).

In its 32nd year, the 2020 Southern Delmarva Economic Forecast gives businesses the opportunity to promote their services to hundreds of the Delmarva's decision makers.

Secure your sponsorship by November 25, 2019

LeVita Bragdon at lbragdon@salisburyarea.com or 410-749-1044

CEO LEVEL - \$2,500

Six (6) complete Forecast tickets, reserved seating, exhibition sponsor table, logo on all signage at event, recognition as CEO level sponsor on screen at event, logo and recognition on Chamber website, social media, & SBY Business online publication, access to attendee list

CHAIRMAN LEVEL- \$1,250 ** Option for display table extra \$125

Four (4) complete Forecast tickets, reserved seating, logo on all signage at event, recognition as Chairman level sponsor on screen at event

BOARD LEVEL - \$500

Two (2) complete Forecast tickets, logo on all signage at event, recognition as Board level sponsor on screen at event

SUPPORTER LEVEL - \$250

One (1) complete Forecast ticket, logo on all signage at event, recognition as Supporter sponsor on screen at event

EXHIBITION TABLE - \$250

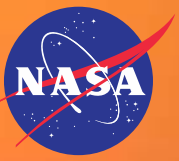
One (1) 6ft table for you to display and market your business



Virginia Institute of Spaceflight and Autonomy (VISA)

- The Virginia General Assembly approved \$370,000 in the 2019 budget to establish the Virginia Institute of Spaceflight and Autonomy
- Mission/Purpose: “VISA will partner with Virginia universities to help advance and commercialize emerging technologies related to the design and prototyping of autonomous vehicles, sensors and satellite payloads, as well as command, control, communications and computational technologies for space-based and unmanned systems, and data engineering for space-based and unmanned asset data.”
- Old Dominion University is the lead organization
 - Institute will be established at the Wallops Complex
 - Official kick-off date is Oct. 10
- Dave Bowles, former Langley center director, named VISA’s executive director
- Next steps:
 - Wallops and VISA are exploring a Space Act Agreement (nonreimbursable) to formalize a collaborative relationship
 - Follow-up site visit and strategic planning session with VISA (Bowles) and ODU
 - ODU is working with the General Assembly to fund additional PhD-level personnel





- **Actions**
- **Questions?**

EXPLORE
WALLOPS

