

### Cultivating Effective Industry Partnerships for Long-Term Sustainability













### Welcome!



#### **Barbara Murray**

Director & PI SMART Center Tidewater Community College (TCC) *Virginia, Beach, Virginia* 







## **Panelists**



**Brad Mason** Chair - SMART Maritime Technologies Consortium Director - Maintenance, Modernization, and Technical Services (AMSEC LLC)



Monica Pfarr PI –National Center for Welding Education and Training (Weld-Ed) Lorain County Community College (Elyria, Ohio)



**Kipp Snowe** Instructional Specialist - Transportation, Logistics and Cargo Security Anne Arundel Community College (Anne Arundel, Maryland)





SOUTHEAST MARITIME AND TRANSPORTATION CENTER

# **SMART Center Mission**

#### **Our Focus:**

Build and sustain industry and education partnerships to create 21<sup>st</sup> century skilled maritime and transportation technicians.

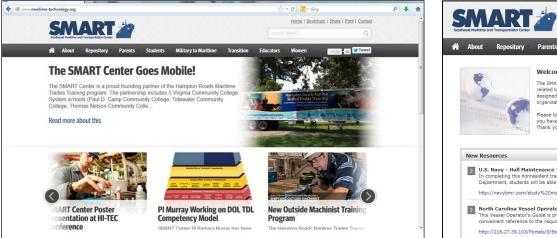
#### **Our Goals:**

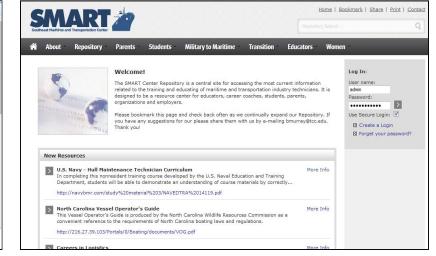
- 1. Increase and impact career awareness
- 2. Develop and disseminate career pathways

3. Model effective industry-educator partnerships









#### www.maritime-technology.org







## **Industry Partners**

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1706

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#### **BAE SYSTEMS**





HUNTINGTON INGALLS INDUSTRIES



A Division of Hundington Ingails Industries

CD

valena.

1 mag





NORTHROP GRUMMAN

#### GENERAL DYNAMICS











**MITAGS PMI** 







#### **Partners' Locations**









### **Result: SMART-Certified Educators via Institute**



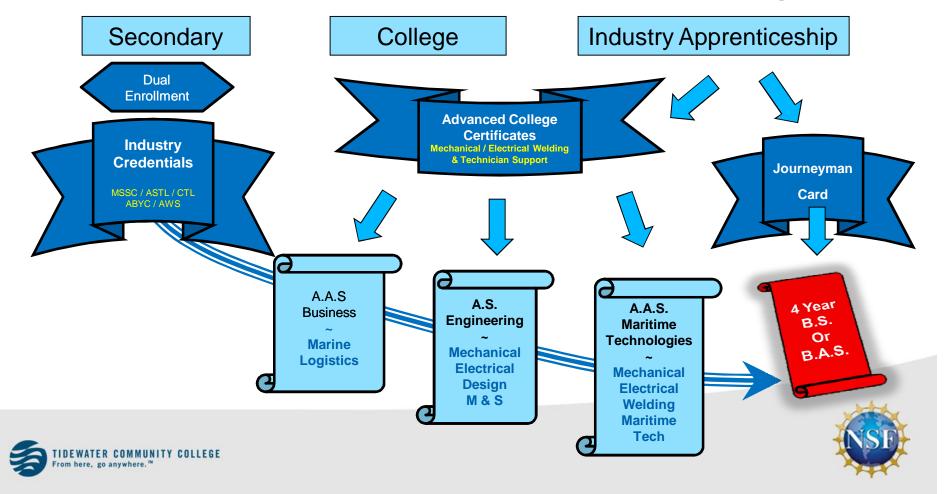






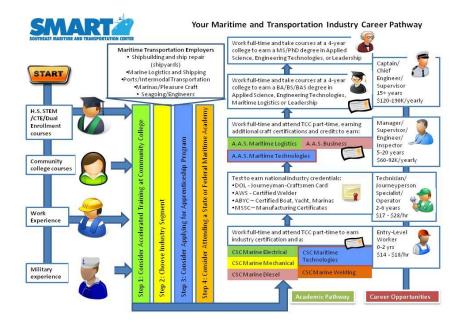


#### **Result: Industry-Validated Academic Career Pathway**





### **Result: New Career Awareness Materials**





Megan was a community college student who found a rewarding career in the maritime and transportation industry. Read her story at: www.maritime-technology.org







## **Brad Mason**









### Maritime Technologies Consortium

- Leaders from industry, education
- Represent all four industry segments
- Meet monthly at host site (TCC) with faculty, staff
- Advise on industry-needed curriculum
- Assess and validate SMART materials, pathway
- Support SMART: serve on NVC, host Institute meetings and tours, provide outreach material, etc.







### Value of SMART Partnership

- synergy between industry leaders in region that have national reach
- creation of stackable academic and industry credentials key to developing future leaders
- successes: relevant industry training with academic credit and apprentice-relevant courses such as
  - refrigerant
  - PLC courses
  - electrical Trades training
- expansion of apprentice curriculum: welding – mechanic – electrician – logistician
- nationwide curriculum goal and partnership









- Programmable Logic Controllers (PLCs)
- Increasingly the standard for machinery control on U.S. Navy ships
- Shipbuilding/ship repair industry leaders require training for technicians on PLCs to serve Naval ships
- SMART coordinated first-ever West Coast/East Coast synchronous PLC training between SDCC and TCC















## **Monica Pfarr**



National Center for Welding Education and Training









#### **SMART Industry Focus Group Findings re: Maritime Welding**





Higher Education = Higher Income

The top five jobs most needed in the maritime industry today are (#1) WELDERS, (#2) marine electricians, (#3) marine mechanics, (#4) ship fitters, and (#5) machinists

- 2012 SMART Center Focus Group Findings Report Terryll Bailey, The Allison Group





#### Partnering to Meet Industry-Identified Employment Need

- Professional development workshops for secondary and post-secondary welding educators
- Send individual instructors to Weld-Ed summer workshop offerings
- Offer Weld-Ed workshop for SMART faculty and industry partners during academic year
- Weld Quality and Inspection, Codes, Specifications and Safety hybrid workshop in November/December 2013













# **Kipp Snowe**









### **Baltimore Partnership Formation through Institute**

U.S. COAST GUARD











## **Questions?**







## **Table Sessions**







## How Can We Help?

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