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)
SMART Center Mission

Our Focus:
Build and sustain industry and education partnerships to create 21st 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
Industry Partners

BAE Systems

AMSEC

Tecnico

Huntington Ingalls Industries

Newport News Shipbuilding

Navsea

General Dynamics

Collins Machine Works

Ingalls Shipbuilding

Ocean Marine Yacht Center

Oceaneering

Port of Baltimore

CDI Government Services

Steel America

Colonna's Shipyard, Inc.

Tidewater Community College

NSF
Partners’ Locations
Result: SMART-Certified Educators via Institute
Result: Industry-Validated Academic Career Pathway

Secondary

Dual Enrollment

Industry Credentials
MSSC / ASTL / CTL
ABYC / AWS

College

Advanced College Certificates
Mechanical / Electrical Welding & Technician Support

A.A.S Business
~ Marine Logistics

A.S. Engineering
~ Mechanical Electrical Design M & S

A.A.S. Maritime Technologies
~ Mechanical Electrical Welding Maritime Tech

Industry Apprenticeship

Journeyman Card

4 Year B.S. Or B.A.S.
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
Case Study Success: Partnering to Produce PLC Course

• 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

Weld-Ed
National Center for Welding Education and Training
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

Anne Arundel Community College
Baltimore Partnership Formation through Institute
Questions?
Table Sessions
How Can We Help?

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