

## Ohio STEM Call-to-Action Forum

**Tuesday, April 8, 2014**

7:00am-8:00am **Registration and Networking Breakfast**

8:00am-9:00am

**Welcome & National Overview of STEM Initiatives**

- Mr. Pete Larson, *Chair, AIA Workforce Working Group; Director, Engineering Workforce, The Boeing Company*
- Mr. Ed Swallow, *Chair, NDIA STEM Division; Vice President, Federal & Defense Tech, Northrop Grumman Corporation*
- Ms. Aimee Kennedy, *Vice President, Education and STEM Learning, Battelle*

9:00am-9:30am

**Ohio Aerospace Institute (OAI) Perspective On STEM**

- Dr. Michael Heil, *President and CEO, OAI*

9:30am-10:15am

**Keynote Speaker**

- Ms. Barbara Snyder, *President, Case Western Reserve University*

10:15am-10:30am

**Networking Break**

10:30am-12:00pm

**Best Practices From The Ohio STEM Learning Network Panel**

12:00pm-12:15pm **Luncheon**

12:15pm-1:00pm

**Industry Perspective**

- Mr. Donald Washkewicz, *Chairman, CEO & President, Parker Hannifin (Invited)*

1:00pm -2:15pm

**Local Role of Federal Agencies in STEM**

**Moderator**

- Mr. John Hairston, *District Director, 11th District Congressional office in Warrensville Heights (Invited)*

**Panelists**

- Ms. Dovie Lacy, *Chief, Educational Programs Office, NASA Glenn (Invited)*

2:15pm-2:30pm

**Goals and Instructions for Breakout Groups**

2:30pm-2:45pm

**Networking Break**



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**Tuesday, April 8, 2014 Continued**

2:45pm-3:55pm **Breakout Sessions**

**Topic #1: STEM Career Outreach – Employer Perspectives**

Employer perspectives are vital to developing approaches to STEM outreach and education that will have genuine and meaningful impact on Ohio STEM workforce and STEM employment. In this session, participants from aerospace and defense industry and government employers will discuss: STEM skills that are currently in shortest supply for workforce needs, STEM skills anticipated to be the most urgent for the future; barriers encountered in finding employees with the right STEM skill set; barriers obstructing the pipeline of candidates; and success strategies in getting candidates/students into the STEM job pipeline and in training/retraining initiatives to align workforce skill mix to needs.

**Target audience: Employers in industry and government serving the aerospace and defense markets (research, development, services, manufacturing, supply)**

**Topic #2: Innovative Approaches – Innovative Approaches – Practitioner Perspectives from “the Trenches”**

Ohio has a growing number of STEM schools, each with its own unique and innovative learning environment. These STEM school strategies can be incorporated into traditional school settings and impact a larger number of students across Ohio. In this session, participants from all school types will discuss: the impact of STEM curriculum on student achievement; STEM best practices and how these could be adapted for traditional schools; how to involve informal education organizations in STEM education; and the role of the Ohio STEM Learning Network in STEM education.

**Target audience: All educators (STEM and traditional schools/districts)**

**Topic #3: Higher Education Initiatives**

Ohio’s higher education community, along with higher education nationally, has been placing increasing emphasis on achieving higher numbers of graduates with STEM degrees. In this session, participants from the higher education system and the employers of the students they graduate will discuss: innovative approaches to attract and retain students in STEM majors; factors supporting student success and graduation in STEM majors; the role of internship and co-op opportunities in STEM student retention/graduation; innovative approaches to identify and respond to STEM workforce needs; STEM education; innovative approaches to accomplish STEM training/retraining below the baccalaureate level; barriers to graduating more students with STEM credentials; and what investments might be made at the State level to support graduating more students with STEM credentials.

**Target audience: Representatives of community and four year colleges, universities, higher education consortia, Board of Regents, and employers as “end users”**

**Topic #4: Informal Education Initiatives – STEM Outside the Classroom**

Ohio has a wealth of informal education providers who offer a tremendous variety of aerospace, aviation, and defense-related programs aimed at students of all ages, with the goal of exciting students about STEM outside the classroom. In this session, participants from informal education organizations will discuss: innovative programs related to aerospace and defense related topics; best practices for engaging broad community participation; possible benefits of and ways to utilize a statewide network of informal aerospace/defense related programs and providers; opportunities to collaborate to enhance STEM informal programming offerings; best practices for securing support for efforts; and best practices for evaluating program effectiveness.

**Target audience: Representatives of museums, aerospace/defense interest organizations and others engaged in providing STEM outreach, education and experiences outside the classroom.**

**Topic #5: Reaching Underrepresented Students**

An ongoing and well recognized challenge to building a bigger STEM workforce pipeline is attracting and retaining students from populations historically underrepresented in STEM disciplines. In this session, participants will discuss: innovative approaches and best practices to reach students of underrepresented groups at all levels; identify barriers to STEM engagement for underrepresented students and how barriers might be addressed; evaluating effectiveness in increasing participation by underrepresented students in STEM studies, majors and careers; and identifying resources that might better enable outreach and engagement of underrepresented students.

**Target audience: Representatives of employers, informal education organizations, schools, higher education, industry, technical associations.**

**Topic #6: Partnerships**

Partnerships and collaboration strategies can be a powerful enhancement to the STEM engagement efforts of any organization. In this session, participants will discuss: the role that partnerships have played in impacting success of their respective STEM education efforts; what kinds of partners/partnerships have contributed the most to success; what partners would be the most sought after for collaboration; barriers to forming effective STEM education partnerships and how to overcome them; identifying effective incentives for collaboration and partnering; identifying resources that could enable providers to find and contact partners to work with.

**Target audience: Representatives of non-profit organizations, foundations, and any/all categories of participants in attendance.**

4:00pm-5:30pm     **NASA Glenn Facility Tour**

5:30pm-6:30pm     **Networking Reception**

