

2013-2014 Dayton Regional STEM Center

Stakeholder Brief

The purpose of this paper is to provide a status report on the Dayton Regional STEM Center (DRSC). It was prepared by Jim Rowley, Director of DRSC and Sandi Preiss, Coordinator of the DRSC.

To focus our efforts and community impact during the coming academic year, the DRSC will concentrate its organizational efforts in the five areas listed below:

- Facilitating the STEM Fellows Program
- Designing and delivering high quality STEM Education Workshops
- Sustaining our community of STEM Educators
- Consulting and partnering at the state and national level
- Seeking new funding sources

The 2013-2014 STEM Fellows Program

We will proceed with the sixth season of STEM Fellows programming. This year's program will take place from January – May 2014 through a series of twelve Wednesday evening meetings. Fellow's slots will be available for district purchase and private sponsorships. Educator Fellow stipends will be adjusted to reflect a reduction in the responsibilities and expectations. We will focus fellowship efforts on classroom practice, instructional design and piloting in a similar fashion to previous seasons. Stipends will only be available for STEM Educator Fellows and Lead Fellows. We are expecting to host 3 to 5 curriculum design teams this season with each team being supported by STEM industry and higher education volunteers. Additionally, we will continue to focus on curriculum piloting to ensure that the curriculum generated through our program and partnerships is completed and distributed via our website. A *Piloting Catalog* will be distributed in January, 2014 inviting past STEM Fellows to apply to pilot available curriculum in a similar fashion to previous seasons. Information on participating in this year's STEM Fellow's Program is available on the third page of this document.

STEM Education Workshops

We will offer workshops for educators and curriculum specialists that promote STEM integration in a manner supporting the Common Core Standards, formative instructional practices (FIP) and Ohio Teacher Evaluation System (OTES). These workshops will focus on teachers across grade bands, subject areas, and STEM proficiency. As always, these workshops will help teachers develop knowledge and skill across the ten components that constitute our *STEM Education Quality Framework*. This will be a great opportunity for districts and schools to

support broad-scale movement in helping teachers employ such strategies as problem-based learning, technology integration, and performance based assessment. We are looking at designing one or more of these workshop experiences as an on-line learning experience. Look for our 2013-2014 workshop events to be posted on the MCESC and DRSC websites in October!

Sustaining Our STEM Education Community

We understand very clearly that our most important asset is YOU! It is because of your dedication and hard work that the Dayton Regional STEM Center has the capacity to weather the current financial challenges. Over the past few years we have repeatedly had requests for opportunities to stay involved and re-connect. Such requests often come from those of you who have completed your involvement in our STEM Fellows program. This year we will be making an intentional effort to plan special events where you will be invited to join with like-minded professionals for an evening of fellowship and continued learning. We will be in contact with you by email and through the DRSC website regarding these events.

Consulting and Partnering at the State and National Level

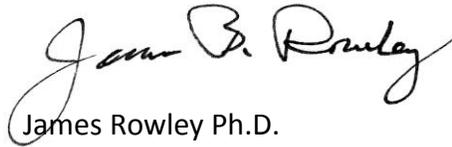
We will continue our history of providing consulting services to public and private schools and organizations in Ohio and across the United States. There is a steady interest in our STEM Center concept for driving STEM Education. Our STEM Fellows program, our STEM Education Quality Framework and our history of collaboration with STEM industry and higher education stakeholders continue to attract attention from schools, districts, cities, states and private organizations seeking to support and advance STEM education. We will seek to leverage that interest to establish consulting and partnership relationships that can help expand our footprint and sustain our initiatives over time.

New Funding Sources

Finally, we will be working hard this year to develop new revenue sources to support our organization so that it can continue to provide its valued services. We will be aggressively pursuing grant funding and foundation support while looking for opportunities to market our research-based and time tested professional development services and products. In all of these efforts we will be seeking to diversify our revenue sources. For example, there are plans underway to work with school districts to identify STEM industries located in their communities who may be willing to sponsor one or more STEM Fellows on an annual basis.

As you can see this year will be an exciting one full of changes as well as opportunities for stabilization and growth. If you have any additional questions or concerns, please don't hesitate to contact us. As always, we look forward to another year of working together to help provide high quality STEM education experiences for the teachers and students we serve.

Thank you for your continued interest and support,



James Rowley Ph.D.

Dayton Regional STEM Center Director

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Sandra Preiss

Dayton Regional STEM Center Coordinator

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If you are interested in volunteering as a 2013-2014 STEM Industry or Higher Education Fellow, please email Sandi to express your interest by **October 16**. Previous Educator STEM Fellows interested in serving as a Lead Educator Fellow in the 2013-2014 school-year should email Sandi Preiss by October 16 to express their interest. We will have three to five Lead Fellows positions available depending on the number of new fellow applications. Lead stipends for 2013-2014 will be \$2,500. Selections will be made in mid-November.

We appreciate any support you can provide in encouraging your colleagues to consider applying to be a 2013-2014 STEM Fellow. For the first time in DRSC history STEM Fellowships will not be provided free to schools and districts. The cost for this year, thanks to some scholarship support will be \$2,500 per STEM Fellow. \$1,500 will be being returned to the STEM Fellow in the form of a stipend. We will be meeting with area curriculum directors and superintendents in September to explain this year's program and opportunities. Anything you can do to help these leaders understand the value and impact of the STEM Fellows programs will be greatly appreciated as well. Applications for the 2013-2014 STEM Fellows Program are available at daytonregionalstemcenter.org.

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|---------------------------------|
| Training |
| STEM Fellow General Meetings |
| Curriculum Meetings |

2013-2014 STEM Fellow Calendar



| # | Date | Time | Meeting | Location |
|----|--------|---------------|--------------------------|----------|
| 1 | 8-Jan | 4:30pm-6:30pm | Educator Fellow Training | MCESC |
| 2 | 15-Jan | 4:30pm-6:30pm | Educator Fellow Training | MCESC |
| 3 | 22-Jan | 4:30pm-6:30pm | Educator Fellow Training | MCESC |
| 4 | 29-Jan | 4:30pm-6:30pm | Educator Fellow Training | MCESC |
| 5 | 5-Feb | 4:30pm-6:30pm | Welcome & Ideation | MCESC |
| 6 | 19-Feb | 4:30pm-6:30pm | Brainstorming | MCESC |
| 7 | 5-Mar | 4:30pm-6:30pm | Curriculum: Phase 1 | MCESC |
| 8 | 19-Mar | 4:30pm-6:30pm | Curriculum: Phase 2 | MCESC |
| 9 | 9-Apr | 4:30pm-6:30pm | Curriculum: Phase 3 | MCESC |
| 10 | 30-Apr | 4:30pm-6:30pm | Curriculum: Phase 4 | MCESC |
| 11 | 14-May | 4:30pm-6:30pm | Curriculum: Phase 5 | MCESC |
| 12 | 28-May | 4:30pm-6:30pm | Debut & Banquet | MCESC |

Montgomery County Educational Services Center (MCESC) is located at: 200 South Keowee Street, Dayton.

Dayton Regional STEM Center Coordinator: Sandi Preiss can be contacted via email at sandi.preiss@mcesc.org
or via phone at 937-225-4598.