

## 2014 Colorado STEM Teacher Preparation Symposium

### ***Partnerships of K-12 Schools and STEM Teacher Preparation Programs***

**Funded by the Gay & Lesbian Fund for Colorado, a program of the Gill Foundation & University of Northern Colorado**

Support provided by Xilinx, Inc., Colorado Science Education Network (CSEN), and the Innovation Center of St. Vrain Valley School District

Date: Thursday, December 11, 2014, 7:30 am – 2:00 pm

Location: Xilinx, Inc., 3100 Logic Drive, Longmont, CO 80503 --Xilinx Retreat

At the 2013 Colorado STEM Teacher Preparation Symposium we discussed working definitions of STEM and described what pre-service STEM teachers should know to support learning in K-12 classrooms. To contextualize these definitions and descriptions, the 2014 Colorado STEM Teacher Preparation Symposium will provide opportunities for K-12 schools and STEM teacher preparation program partners to describe their work. Through panel discussions and poster presentations, partners will address the following questions: How is STEM defined by different stakeholders?, What does STEM teaching and learning look like in the K-12 schools?, What are some of the successes and challenges?, What experiences do STEM pre-service teachers need to be successful in these K-12 STEM programs?.

#### **Agenda**

**7:45 – 8:30** Continental Breakfast

**8:30 – 8:35** Welcome, Dr. Ellen Meyer Gregg, Dean of College of Natural & Health Sciences, UNC

**8:35 – 9:35** Keynote Presentation, *NGSS and STEM: Limits and Possibilities*, Dr. Rodger Bybee, Biological Sciences Curriculum Studies

**9:45 – 10:45** Panel discussion with district and teacher preparation programs about STEM definitions in their work (15 min. break out group discussion).

*Jennifer Daniels*, Associate Professor of Education, Colorado Mesa University, Grand Junction, CO

*Gretchen Morgan*, Executive Director, Choice and Innovation Unit Schools, Colorado Department of Education, Denver, CO

*Dan Snare*, Science Instructional Specialist, Warren Tech, Jefferson County School District, Lakewood, CO

*Kurt Cary*, Associate Chair of Teacher Education, Adams State University, and U.S. Dept. of Education Teacher Quality STEM Grant, Alamosa, CO

*Teri Lefebvre*, K-12 Science Specialist, Mesa County Valley School District 51, Grand Junction, CO

*Tracy Wagers*, Associate Director, 100K in 10 and Boettcher Teacher Residency, PEBC, Denver, CO

**10:45 – 11:30** Poster session

**11:30 – 12:30** Panel discussion with districts and teacher preparation programs on challenges and successes for programs, and what understanding/skills do new teachers need for the STEM classroom (15 min. break group included).

*Wendy Adams*, Associate Professor, Director of Science Education Programs, University of Northern Colorado, Greeley, CO

*Rebecca Peters*, Program Manager for the Innovation Center (Race to the Top Grant), St. Vrain Valley School District, Longmont, CO

*Julie Andrew*, Master Teacher, CU-Teach, University of Colorado-Boulder, Boulder, CO

*Bridgette Muse*, Director of Student Services, Eaton School District RE-2, Eaton, CO

*Ron Tzur*, Professor of Mathematics Education, University of Colorado-Denver, Denver, CO

*Peter Zolar*, 4<sup>th</sup> Grade Mathematics and Science Teacher, Laredo Elementary School, Aurora Public Schools, Aurora, CO

**12:30 – 1:45** Lunch & 2<sup>nd</sup> Keynote Presentation, *Recruitment and Retention in STEM: Working with Under-represented Populations at Mines*, Andrea Salazar Morgan & Stephanie Berry of Colorado School of Mines

**1:45 – 2:00** Summary and Evaluation, Dr. Lori Reinsvold, UNC