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## Global Education Trend – How to implement STEM Education

Speaker: Prof. Jonathan Osborne, Stanford University

STEM has been advocated as the future trend of education across the globe. This innovative curriculum from the US blends **Science, Technology, Engineering** and **Mathematics** into an integrated approach of analytical thinking and problem-solving skills. Students are encouraged and equipped to apply their knowledge in real-world applications for the changes and challenges brought by the global environment. STEM Initiative Hong Kong takes pleasure in inviting Prof. Jonathan Osborne of Stanford University, a key author of the STEM framework in the US, to host two seminars in Hong Kong:



### New Directions in Teaching Science\*

**Date:** 20<sup>th</sup> June 2016 (Monday)

**Time:** 4:00pm

**Venue:** Chambers 1A & 1B, InnoCentre, 72 Tat Chee Avenue, Kowloon Tong

**Admission:** Free

**Abstract:** The Next Generation Science Standards (NGSS) are currently implemented in 16 states in the US to promote STEM education. These standards represent a change from teaching science core ideas with a focus on inquiry, to a focus on scientific practices where argumentation is a core feature. The seminar will explore the rationale for this change, why it is seen as an improvement, and the implications for science teaching.

\* The seminars will be conducted in English

### Assessing Scientific Literacy and Competency: Lessons from PISA and NGSS\*

(With a panel discussion moderated by Prof. Lap-Chee Tsui)

**Date:** 22<sup>nd</sup> June 2016 (Wednesday)

**Time:** 4:00pm

**Venue:** The Leighton Hill Community Hall, G/F, 133 Wong Nai Chung Road, Happy Valley

**Admission:** Free

**Abstract:** Under the Next Generation Science Standards (NGSS), the learning outcomes are defined in terms of what students are able to do, not just what they know or can recall. Hence a new system of assessments is needed. The seminar will discuss how to design a system to meet the vision of NGSS, review the existing items and their suitability for NGSS, measure the scientific practice of arguing from evidence, as well as the issues and challenges for the field.

### Prof. Jonathan Osborne

Prof. Osborne holds the Kamalachari Chair in Science Education at the Graduate School of Education, Stanford University. He was a member of the US National Academies Panel that produced the Framework for K-12 Science Education as the basis for the new Next Generation Science Standards. Currently, he is chair of the expert group for producing the framework for PISA (Programme for International Students Assessment) 2015 and 2018. He has been invited by organizations worldwide to share his insights about science education and STEM education.

### STEM Initiative Hong Kong

**STEM: Inspiration for Infinite Possibilities Tomorrow**

We at STEM Initiative Hong Kong are dedicated to inspiring our young to a great future and preparing them for tomorrow's infinite possibilities in a fast-growing and increasingly technology-intensive world. We believe that children from a tender age should develop a lifelong, scientist-like passion to always wonder and explore, to learn by trying and experimenting, and to succeed through perseverance. We aim at fostering a challenging, interdisciplinary, experiential and multifaceted learning environment in local schools at all levels that excites, engages and enriches students through a unique, learn-by-doing curriculum of **Science, Technology, Engineering, Mathematics** subjects to help prepare them for excellence in life through positive thinking, exemplary critical skills, hard work and strong ethics.

#### Organizers



#### Partners



#### Supporting organization



Limited seats available on a first-come-first-served basis.

Online Registration: [goo.gl/ZBSNzt](http://goo.gl/ZBSNzt)  
Enquiry: 3583 3100  
Website: [STEMHK.ORG](http://STEMHK.ORG)

