The Carl Wieman Science Education Initiative at the University of British Columbia: Achieving Widespread Change in Teaching Practice.

The Carl Wieman Science Education Initiative (CWSEI) was founded in 2007 with the aims of improving science education at the University of British Columbia and developing successful models to help inform change at other institutions. It addresses known challenges such as:

* A few staff employing effective research-based teaching practices in a department does not result in widespread change, and,
* Most science faculty are unaware of the findings of relevant science education and cognitive psychology research.

Professor Gilbert will describe the history and results of the CWSEI, giving specific examples of how it worked in different departments and what types of course transformations have been made. Sarah Gilbert and Carl Wieman will co-lead a group discussion of how these results might be used in an Australian context.

**Date:** Monday 7 March 2016  
**Time:** 2pm - 4pm  
Seminar: 2pm - 2.45pm  
Afternoon Tea: 2.45pm - 3.15pm  
Q&A: 3.15pm - 4pm  
**Venue:** The University of Queensland, St Lucia, Brisbane  
The Holt Room, Union complex (Building 21).  
**Register:** HERE

**DOCTOR SARAH GILBERT**

Sarah Gilbert received her B.S. in physics from the University of Hawaii in 1978 and Ph.D. in physics from the University of Michigan in 1984. She was a researcher at the National Institute of Standards and Technology (NIST – formerly the National Bureau of Standards) in Boulder, Colorado from 1985 to 2006, and a group leader in the NIST Optoelectronics Division. She has done research and published over 80 papers in a variety of atomic and optical physics areas and is a Fellow of the Optical Society of America.

After many years of discussing science education with her husband, Carl Wieman, she decided to switch fields and concentrate on improving science education. In 2007 she became the Associate Director of the Carl Wieman Science Education Initiative (CWSEI) at the University of British Columbia, an initiative aimed at achieving departmental-wide sustainable change in undergraduate science education by incorporating effective approaches based on evidence from science education and educational/cognitive psychology research. She was Acting Director of the CWSEI from 2010-2014 and is currently a senior advisor to the CWSEI.