

**JULY**  
**14**  
**Fri**

# International Symposium Transformation of STEM Teaching

New approaches to the teaching of STEM subjects in Japan and the U.S. Anyone interested in active learning are welcome.

## Venue

Conference Hall  
Main Administration Building 6 th Floor  
Kanazawa University

## Speakers

- Steven Pollock  
Professor of Physics, University of Colorado Boulder  
Winner of 2013 U.S. Best Teacher Award
- Akira Ushijima  
Associate Professor of Mathematics, Kanazawa University
- Sachiko Tosa  
Professor of Science Education, Niigata University

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Schedule

13:00 ▶ 17:00

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No reservation is necessary.



【Inquiry】

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International Symposium  
Transformation of STEM Teaching

July 14<sup>th</sup> (Fri), 2017

Conference Hall

Main Administration Building 6<sup>th</sup> Floor

Kanazawa University

Today active learning is changing the landscape of higher education. Although the concept of student engagement is the same, approaches are different from discipline to discipline. This is the reason why we need Discipline-Based Education Research (DBER) for active learning. In this symposium, we will focus on science teaching at the university level. Professor Steve Pollock will talk about the teaching reform of physics at the University of Colorado Boulder. Professor Akira Ushijima will report the mathematics teaching reform at Kanazawa University. Professor Sachiko Tosa will discuss her international comparative study of science teaching. Anyone who is interested in teaching reform and STEM education is welcome.

Chair: Professor Keiichiro Yoshinaga (Kanazawa University)

13:00 Opening Remark

Professor & Vice President for International Affairs Yoshio Otani (Kanazawa University)

13:05 “Physics Teaching Reform at the University of Colorado Boulder”

Professor Steven Pollock (University of Colorado Boulder, U.S. Professor of the Year 2013))

14:30 Intermission

14:40 “Mathematics Teaching Reform at Kanazawa University”

Associate Professor Akira Ushijima (Kanazawa University)

15:10 “Why not including active learning instructional strategies in your lecture?”

: Based on US-Japan comparison of college physics lessons”

Professor Sachiko Tosa (Niigata University)

16:10 Discussion

16:55 Closing Remark