

RICHARD R. ERNST LECTURE 2015

Prof. Dr. Steven Chu

Nobel Laureate in Physics, 1997.

Secretary of Energy of the United States of America, 2009 - 2013.

“Energy, Climate Change and Sustainability”

Wednesday, March 11th 2015, 4.00 pm

ETH Zürich, Main Building, Auditorium Maximum

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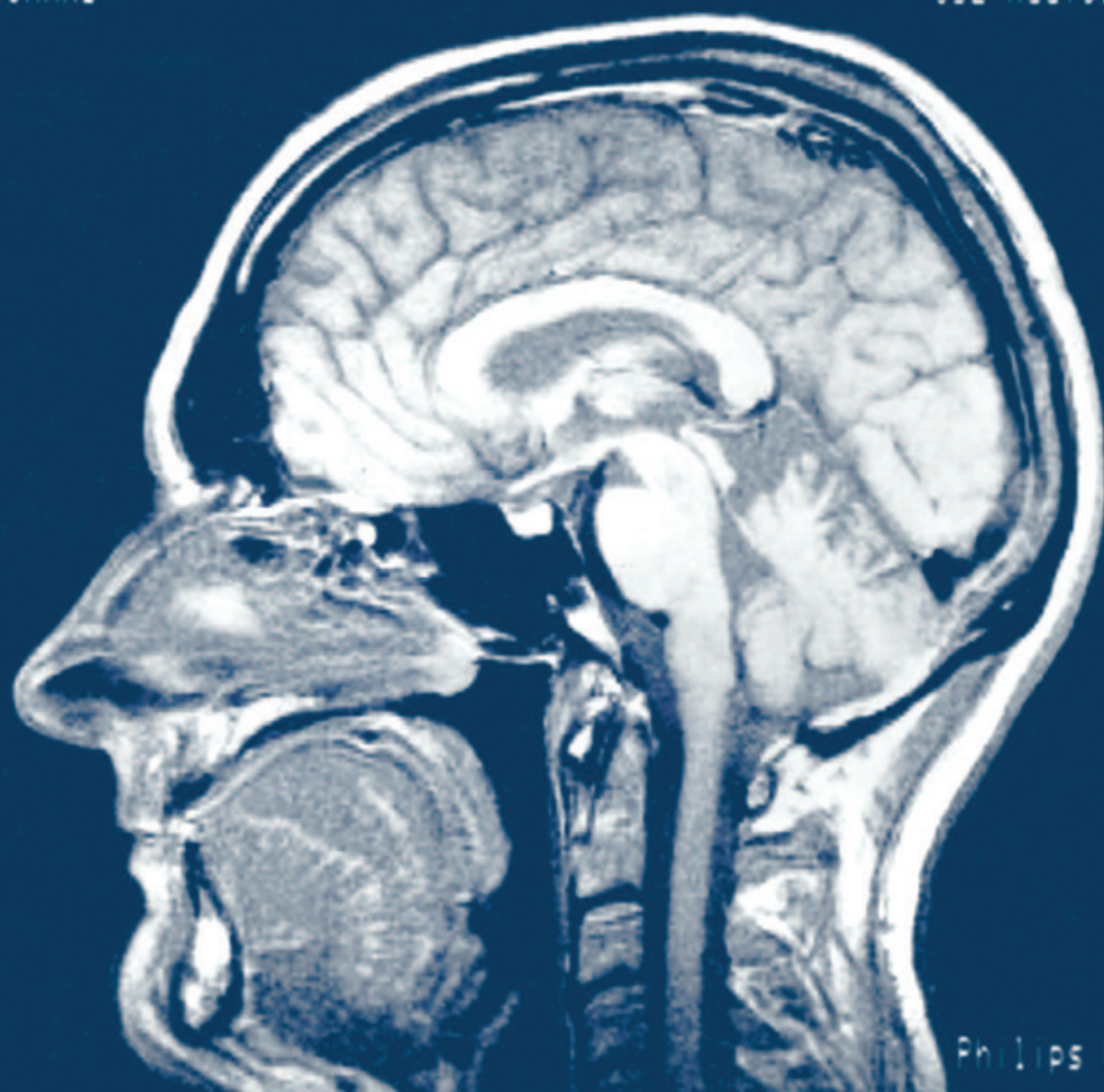
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Richard R. Ernst Lecture

The Richard R. Ernst Lecture is a yearly event organized by the Laboratory of Physical Chemistry of the ETH Zürich. Professor Ernst received the Nobel Prize for Chemistry in 1991 for his contributions to the development of the methodology of high resolution nuclear magnetic resonance (NMR) spectroscopy. From 1976 to 1998 he was a professor of physical chemistry at the ETH Zürich.

The aim of the Richard R. Ernst Lecture is to strengthen the relationship and understanding between the Sciences, Society and Politics and to raise awareness for the questions and challenges our global society is facing today and will face in the future.

Prof. Dr. Steven Chu

The 2015 recipient of the Richard R. Ernst Gold Medal is Professor Dr. Steven Chu. He received the 1997 Nobel Prize in Physics together with Claude Cohen-Tannoudji and William Daniel Phillips "for the development of methods to cool and trap atoms with laser light". His contribution to optical science was a technological breakthrough. Equally honorable is his appointment as the 12th United States' Secretary of Energy from 2009 to 2013.

Steven Chu is indeed an exemplary role model for scientists, demonstrating how scientific insight and initiative can help finding approaches for solving societal problems. One of his ideas is to replace the oil-based economy by a global glucose economy where glucose from high-glucose plants is being used for satisfying the global energy needs.

His lecture "Energy, Climate Change and Sustainability" is addressing questions regarding the global survival in peace and prosperity, tackling problems that a short-sighted, money-minded economy poses.

Registration

You are cordially invited to the lecture and the dinner.

Please register with the detachable form, by fax (+41 44 632 16 21) or by e-mail (rrel@phys.chem.ethz.ch) before March 4th 2015.

Program

3:30 pm **Doors open**

4:00 pm **Introduction**

Prof. Dr. Beat H. Meier, Head of Laboratory of Physical Chemistry

Laudatio

Prof. Dr. Lino Guzzella, President of ETH Zürich

**Presentation of the Richard R. Ernst Gold Medal to
Prof. Dr. Steven Chu**

Prof. Dr. Lino Guzzella, President of ETH Zürich

Lecture

“Energy, Climate Change and Sustainability”

Prof. Dr. Steven Chu

Panel Discussion

chaired by Prof. Dr. Alexander Wokaun (ETH Zürich / PSI) including:

Prof. Dr. Steven Chu, Stanford University

Prof. Dr. Richard R. Ernst, ETH Zürich

Dr. Emiliana Fabbri, PSI

Adam West, ETH Zürich

Closing Remarks

Prof. Dr. Beat H. Meier

Apéro

6:30 pm **Dinner**

Dozentenfoyer of ETH Zürich with musical intermezzo and some words by Prof. Dr. Richard R. Ernst.

Musical interlude:

The Laboratory of Physical Chemistry Brass Ensemble