

Registration

Richard R. Ernst Lecture 2014

Tuesday, May 20th 2014

please register before April 25th 2014

I will attend

- the lecture only
 the lecture and the dinner
 with a guest

I'm unable to participate

Special food requests

- vegetarian
 other

Title

First name

Last name

Street and number

Postcode and town

E-mail

Guest

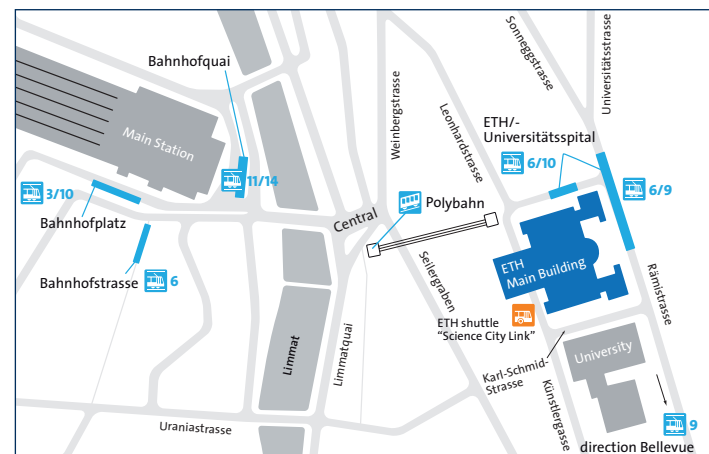
Title

First name

Last name

Map and directions

ETH Zurich, Main Building, Auditorium Maximum (HG F 30)
Rämistrasse 101, 8006 Zurich



How to get to ETH Zurich by public transport

The main building of ETH Zurich (tram station ETH/Universitätsspital) can be reached from:

- Zurich main station by tram 6 (direction 'Zoo') or by tram 10 (direction 'Zürich Flughafen')
- Central by cable car 'Polybahn'

Further Information

ETH Zurich
Laboratory of Physical Chemistry
Phone: +41 44 632 43 01
Fax: +41 633 14 48
E-mail: rrel@phys.chem.ethz.ch

Main Sponsor:



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RICHARD R. ERNST LECTURE 2014

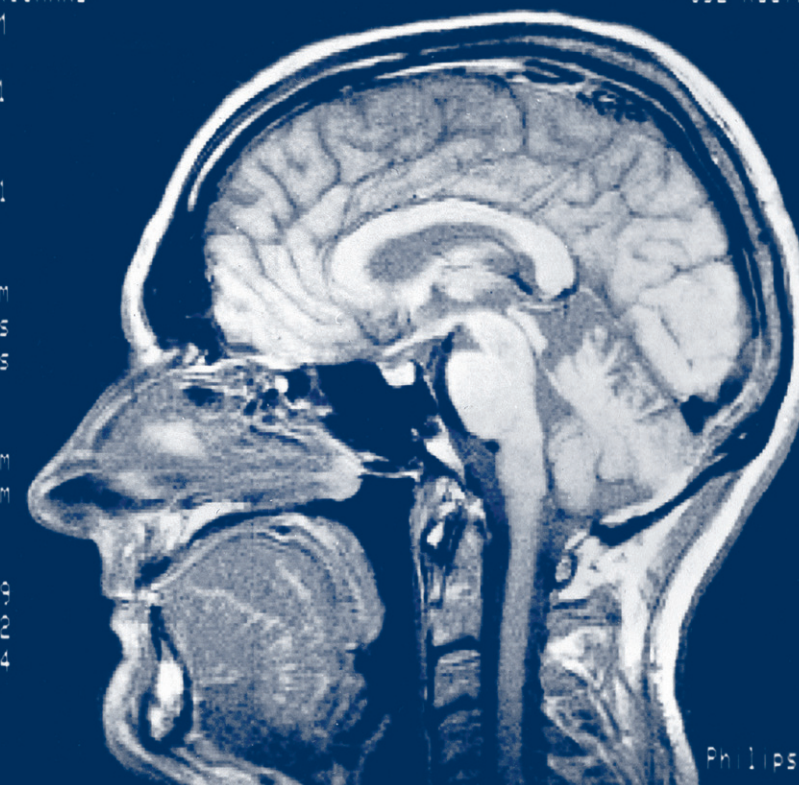
Prof. Dr. Kâmil Uğurbil

"Towards understanding the Human Brain:
A marriage between Physics and Neuroscience"

Tuesday, May 20th 2014, 4.00 pm
ETH Zurich, Main Building, Auditorium Maximum

Picture: Historical NMR image of the head of Richard R. Ernst from 1985, taken in the Radiology at the University Hospital in Zurich.

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USZ Radiologie
Philips Gyroscan

ETH zürich

Richard R. Ernst Lecture

The Richard R. Ernst Lecture is a yearly event organized by the Laboratory of Physical Chemistry of the ETH Zurich. 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 Zurich.

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. Kâmil Uğurbil

The Dr. Kâmil Uğurbil is Professor in the Departments of Radiology, Neurosciences, and Medicine, and holds the McKnight Presidential Endowed Chair of Radiology at the University of Minnesota. He is Director of the Center for Magnetic Resonance Research (CMRR).

Dr. Uğurbil was educated at the Robert Academy in Istanbul and the Columbia University in New York where he received his Ph.D. degree in physics, and chemical physics in 1977.

After receiving his Ph. D., he worked at AT&T Bell Laboratories and subsequently returned to Columbia University as an Assistant Professor in 1979. In 1982, he was appointed Associate Professor at the University of Minnesota where he started the in vivo magnetic resonance imaging and spectroscopy research effort to investigate brain function, anatomy and chemistry, using high magnetic fields. His research in this scientific field led ultimately to the creation of the Center for Magnetic Resonance Research (CMRR, of which he is in charge).

Registration

You are cordially invited to the lecture and the dinner.

Please register with the detachable form, by fax (+41 44 633 14 48) or by e-mail (rrel@phys.chem.ethz.ch) before April 25th.

Program

3:30 pm **Doors open**

4:00 pm **Introduction**

Prof. Dr. Gunnar Jeschke, Head of Laboratory of Physical Chemistry

Laudatio

Prof. Dr. Markus Rudin, ETH Zurich

Presentation of the Richard R. Ernst Medal to

Prof. Dr. Kâmil Uğurbil

Prof. Dr. Roman Boutellier, ETH Zurich

Lecture

**'Towards understanding the Human Brain:
A marriage between Physics and Neuroscience'**
Prof. Dr. Kâmil Uğurbil

Panel Discussion

**Physical measurements and their interpretation in terms of
brain function**

Prof. Dr. Kâmil Uğurbil, University of Minnesota

Prof. Dr. Richard R. Ernst, ETH Zurich

Prof. Dr. Klaas Prüssmann, ETH Zurich

Prof. Dr. Anton Valavanis, University Hospital Zurich

Closing remarks

Prof. Dr. Gunnar Jeschke

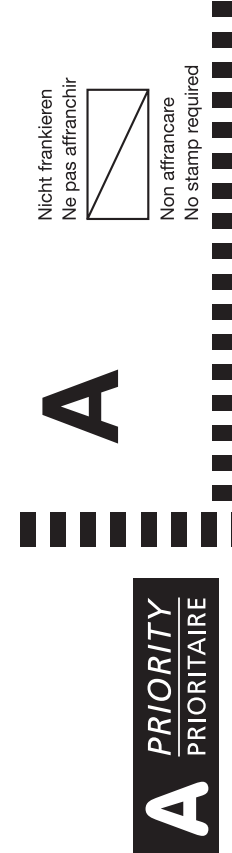
Apéro

7:00 pm **Dinner**

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

Musical interlude: The Laboratory of Physical Chemistry Horn Trio

Stephen Hogan, Roland Riek, David Stapfer



RÉPONSE PAYÉE
SUISSE

ETH Zürich
Laboratorium für Physikalische Chemie
Sekretariat Prof. G. Jeschke
HCI F 223
Vladimir Prelog Weg 2
8093 Zürich

ETH zürich