

Sciex Closing Conference

Welcome!
Willkommen!
Bienvenue !
Benvenuti!
Beinvegni!

Добре дошли!
Tere tulemast!
Vítejte!
Köszöntjük Önöket!
Laiپni lüdzam!

Sveiki atvykę!
Witamy!
Bine ati venit!
Vítajte!
Dobrodošli!

Preparing Young Researchers for the Europe of Tomorrow

September 25th 2015

09:30 – 16:00

ETH Zürich – Audimax

Programme

10:00 Welcome address

Prof. Dr. Lino Guzzella, President of the ETH Zürich (CH)

10:20 Opening statements

The importance of the relationships between Switzerland and the New Member States of the European Union

Prof. Dr. Gilbert Casasus, Chair Department for European Studies, University of Fribourg (CH)

Achievements of the Sciex Programme

Prof. Dr. Guido Vergauwen, President of the Sciex Steering Committee

11:00 Sciex: A stepping stone in the scientific career of the Sciex Fellows

5 Sciex Fellows share their experience

Dr. Katarina Dzubakova, Comenius University in Bratislava (SVK) / ETH Zürich

Dr. András Jakab, University of Debrecen (HUN) / ETH Zürich

Dr. Michal Jenicek, Charles University (CZE) / University of Zurich

Dr. Vaidas Jurkevicius, Mykolas Romeris University (LTU) / University of Geneva

Dr. Alexandra Palla, National Institute for Lasers, Plasma, and Radiation Physics (ROU) / PSI

12:15 Sciex: A creator of scientific progress and innovation

Poster Session & Lunch

13:45 Sciex: An accelerator of scientific networks between researchers

An institutional perspective

Prof. Dr. Andreas Mortensen, Vice-provost for Research, EPFL (CH)

5 Sciex Mentors share their experience

Prof. Dr. Walter Binder, Università della Svizzera italiana (CH)

Prof. Dr. Mariusz Lamentowicz, Adam Mickiewicz University in Poznan (POL)

Prof. Dr. Pietro Lura, Swiss Federal Laboratories for Materials Science and Technology (CH)

Prof. Dr. Matjaz Omladic, University of Ljubljana (SVN)

Dr. Evelyn Wolfram-Schilling, Zurich University of Applied Sciences (CH)

15:00 Round table – Sciex: How to benefit from the potential in Europe?

Prof. Eng. Adrian Curaj PhD, General Director, Romanian Executive Agency for Higher Education, Research, Development and Innovation Funding

Dr. Evelyne Glättli, Deputy Head of the Division International Co-operation, Swiss National Science Foundation (SNSF)

HE. Richard Jones, Ambassador of the UE to Switzerland

HE. Dr. Meglena Plugtschieva, Ambassador of Bulgaria to Switzerland

Prof. Dr. Guido Vergauwen, President of the Sciex Steering Committee

15: 45 Conclusion and Perspectives

HE. Dr. Thomas Greminger Vice-Director, Swiss Agency for Development and Cooperation (SDC)

16:00 Poster Session & Reception

Moderation: Dr. Katja Gentinetta, Political Philosopher and Advisor

Speakers



Lino Guzzella has been full professor of thermotronics since 1999. His research group focuses on novel approaches in system dynamics and control of energy conversion systems. A particular emphasis is placed on the minimization of fuel consumption and pollutant emission of land vehicle propulsion systems. He is a fellow of IFAC and a fellow of IEEE and a member of the Swiss academy of engineering sciences. In December 2011, the ETH Zürich Professors' Conference elected Lino Guzzella as Rector to ETH Zürich's Executive Board for a period of four years. He has been leading ETH Zürich as President since January 2015.



Gilbert Casarus holds a PhD from the Geschwister-Scholl-Institute for Political Sciences of the University of Munich (1985). As a specialist of German-French relationships in Europe, he first worked for some German-French institutions before beginning, in 1993, an academic career in Germany, Switzerland and France. Since 2008, he is a full professor at the University of Fribourg and Director of the Master of European Studies. He is recognized in Switzerland, France and Germany as a specialist of the history of European integration and of the political processes in the EU.



Guido Vergauwen is the former Rector of the University of Fribourg (2007-2015) and acting President of the Sciex-NMS^{ch} programme. Guido Vergauwen was named professor for fundamental theology at the University of Fribourg in 1985 and heads the Institute for Ecumenical Studies. He holds a doctor honoris causa of the University of Bucharest.



Katarina Džubáková obtained her PhD in hydrology at the Comenius University in Bratislava. Her Sciex research focussed on analysing the relation between discharge fluctuations and hydrological conditions of the floodplain habitat and on the flood impact on the riparian vegetation. She is currently working as a postdoc on the monitoring system for sediment transport and algae dynamics in alpine river at the EPF Lausanne.



Andras Jakob MD received his PhD in clinical neuroscience at the University of Debrecen in 2012. During his Sciex fellowship in 2011 he spent 12 months at the Computer Vision Laboratory of ETH Zürich under the supervision of Prof. Dr Gabor Szekely. He was invited as a postdoc to ETH Zürich and later received a two-year Marie Curie IEF Postdoctoral Fellowship. His research scope is the intersection of neuroradiology, medical image computing and clinical neuroscience.



Michal Jenicek obtained his PhD from Charles University in Prague in 2009. After finishing his Sciex project at the University of Zurich in 2012, he was supported by the Swiss National Science Foundation for a postdoc position at the Department of Geography until the end of 2013. His research focuses on the impact of climate and landscape changes on hydrological cycle and water availability. Michal Jenicek is currently teaching at the Department of Physical Geography and Geoecology of Charles University in Prague.



Vaidas Jurkevičius is a lecturer at Mykolas Romeris University in Vilnius and an attorney-at-law at the law firm "BSP LEGAL". In 2014 Vaidas Jurkevičius obtained his PhD in private law. He was a Sciex Fellow for one year at the University of Geneva from 2012 to 2013. Vaidas Jurkevičius has followed internship programmes in Switzerland, Denmark, the United Kingdom, Germany and Austria. He was a visiting lecturer at universities in Naples and Athens. His main research and teaching areas include comparative law, contract law and agency law.



Alexandra Palla received her PhD in Physics at the University of Craiova in 2010 on research she had undertaken at the National Institute for Lasers in Bucharest within the framework of a NATO Science for Peace project. She then followed postdoctoral training at the University of Barcelona for two years, before moving on a one year Sciex Fellowship to Paul Scherrer Institut. Alexandra Palla moved to the Oak Ridge National Laboratory on a Fulbright fellowship. She has now returned as a postdoctoral fellow (CTI project) to Paul Scherrer Institut. The topic of her work focuses on laser-induced forward transfer for the realization of sensors.



Andreas Mortensen is a professor at EPF Lausanne, directing the Laboratory for Mechanical Metallurgy and, since January 2015, EPFL's vice-provost for research. Prior to that he was Dean of doctoral studies and Dean of research. Before joining the faculty at EPF Lausanne in 1997, he was postdoctoral researcher at Nippon Steel and professor at the Massachusetts Institute of Technology. His research covers the spectrum from processing to mechanical properties of metallic materials with focus on advanced materials such as metallic composites or microcellular metals.



Walter Binder is an associate professor in the Faculty of Informatics, Università della Svizzera italiana. He holds a PhD and a Venia Docendi from Vienna University of Technology. His main research interests are in the areas of program analysis, virtual machines, parallel programming, and cloud computing. Walter Binder served as Host Mentor for three Sciex Fellows from Charles University in Prague. The research conducted within the scope of the Sciex projects resulted in numerous journal and conference publications, as well as in the dynamic program analysis frameworks DiSL and ShadowVM that are available as open-source software and have been endorsed by the SPEC Research Group. In 2015, Walter Binder was elected Professoreme Hospitem at Charles University in Prague.



Mariusz Lamentowicz is a professor and Head of the Laboratory of Wetland Ecology and Monitoring at Adam Mickiewicz University in Poznań. His research interests focus on ecology and long-term ecology of wetlands. His research projects combine ecological (including next generation sequencing) and palaeoecological (high-resolution quantitative reconstructions) approaches to better understand dynamics of wetland ecosystems affected by recent global warming, heat waves and fires. Mariusz Lamentowicz has served as Home Mentor to two Sciex Fellows staying at the University of Berne and the University of Neuchâtel.



Pietro Lura has been Head of the Concrete and Construction Chemistry Laboratory of the Swiss Federal Laboratories for Materials Science & Technology since 2008 and professor for concrete technology at ETH Zürich, Institute of Building Materials, Department of Civil, Environmental and Geomatic Engineering, since 2011. His research interests include hydration and early-age properties of concrete, in particular microstructure development, shrinkage, setting, early-age cracking and internal curing. Other topics of interest are material and structural performance of high- and ultra-high performance concrete and fire resistance of concrete.



Matjaž Omladič was promoted to full professor at Ljubljana University in 1992 and was awarded the highest prize for excellent scientific achievements of Slovenia (Zois' prize) in 2001. His collaboration with numerous mathematicians, mostly from Canada, resulted in over 70 papers with hundreds of citations. He has, over the years, been a mentor to dozens of PhD students. Recently, he had two fruitful Sciex projects with Prof. Dr. Josef Teichmann from ETH Zürich.



Evelyn Wolfram-Schilling obtained her PhD in biotechnology from the Research Center Jülich and the Technical University of Munich. Eight years of research in the industry, enlarging her experience with companies in pharmaceuticals, food and cosmetics, followed her PhD. Evelyn Wolfram-Schilling has been working with the Phytopharmacy Research Group at the Department of Life Sciences and Facility Management of the University of Applied Sciences Zurich in Wädenswil since 2009. She was appointed leader of this group in 2014. In recent years, she started intense research co-operations with Eastern Europe, namely by supporting two Romanian Sciex PhD fellowships and a Joint Bulgarian - Swiss Research project in the framework of the Swiss Enlargement contribution.



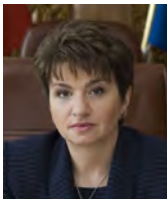
Adrian Curaj is the General Director of the Romanian Executive Agency for Higher Education, Research, Development and Innovation. Before, he was acting as the Romanian Prime Minister's Advisor on Science, Technology, ICT and e-Governance (2007-2008), and as the President of the National Authority for Scientific Research - Ministry of Education, Research, Youth and Sport in Romania (2009-2010). He is the UNESCO Chair holder on Science and Innovation Policies at the National School of Political Studies and Public Administration. Adrian Curaj has a PhD in control engineering from the Politehnica University of Bucharest.



Evelyne Glättli has served as Deputy Head of the Department of International Co-operation at the Swiss National Science Foundation since 1997. She is in charge of the scientific cooperation programme between Switzerland and Eastern Europe including countries of the former Soviet Union. She has been a member of the Sciex Steering Committee since 2010. Evelyne Glättli gained her PhD in biology from the University of Basel in 1988.



Ambassador **Richard Jones** represents the European Union in Switzerland and in the Principality of Liechtenstein. Prior to his posting as Head of Delegation of the EU Delegation in Bern, Richard Jones was Deputy Head of Mission and Political Counsellor at the UK Permanent Representation to the European Union in Brussels. A member of the British Foreign and Commonwealth Office (FCO) since 1983, he held positions as Counsellor and Deputy Head of the European Union Internal Department and as Deputy Head of the Common Foreign and Security Policy Department at the FCO in London. Mr Jones has served as HM Consul-General in Basra, Iraq and as HM Ambassador in Tirana, Albania.



Ambassador Dr **Meglena Plugtschieva** represents the Republic of Bulgaria in Switzerland and the Principality of Lichtenstein. She has held that position since 2012. Before, she served twice as a member of the Bulgarian Government – as Deputy Minister of Agriculture and Forestry from 2001 to 2004 and as Deputy Prime Minister of the Republic of Bulgaria with responsibility of coordination, management and control of the EU Structural and Agriculture Funds in Bulgaria from April 2008 to July 2009. Prior to these executive positions Ambassador Plugtschieva was three times Member of the Bulgarian Parliament. From 2004 to 2008, Dr Meglena Plugtschieva served as Ambassador of the Republic of Bulgaria to Germany.



Ambassador Dr **Thomas Greminger** has been the Deputy Director-General and Head of the Department Regional Cooperation of the Swiss Agency for Development and Cooperation since August 2015. During his long career in the diplomatic service he has held many leading positions, most recently as the Permanent Representative of Switzerland to the OSCE, the United Nations and the International Organizations in Vienna. Ambassador Greminger was previously active in the fields of peace and human rights.

Moderation



Katja Gentinetta obtained her PhD in political philosophy from the University of Zurich in 2001. She subsequently held several positions in public service and with political think tanks and moved to being an independent political philosopher and consultant in 2011. Katja Gentinetta teaches public affairs at the University of St. Gallen and has several mandates as a journalist and member

Poster Session

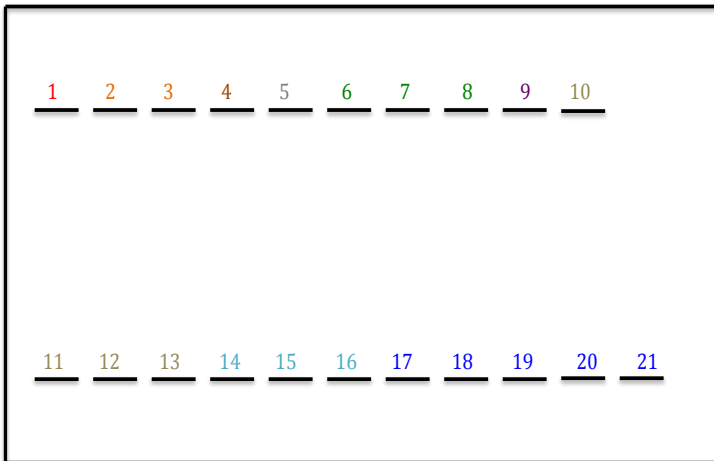
21 Sciex teams (Host Mentors, Fellows, Home Mentors) will present their research project. These projects stem from all scientific fields and illustrate scientific progress and innovation created throughout the Sciex Programme.

Duration

12:15-13:45 and 16:00-17:30

Location

« Haupthalle » / Main Hall ETH Zürich (HG E-HH)



Philosophy, Psychology, Educational Science and Religious Sciences

1. **Bildbewusstsein - Husserl's theory of image consciousness**
Prof. Dr. Gianfranco Soldati, Ms. Regina-Nino Kurg, Prof. Dr. Tonu Viik
(University of Fribourg/Tallinn University)

Legal and Social sciences, Economics

2. **Impact of Student Mobility on Supranational Identities: A Case Study of Switzerland**
Dr. Andrea Schlenker, Ms. Karina Oborune, Prof. Dr. Janis Ikstens
(University of Lucerne/University of Latvia)
3. **RFFS - Resolution Funds and Financial Stability**
Prof. Dr. Christian Ewerhart, Dr. Alina-Nicoleta Radu, Prof. Dr. Gabriela-Victoria Anghelache
(University of Zurich/Bucharest University of Economic Studies)

Linguistics and Literature

4. **EMOCOMP - Comparing self-evaluative emotions across languages and language varieties**
Prof. Dr. Martin Hilpert, Dr. Karolina Krawczak, Prof. Dr. Malgorzata Fabiszak
(University of Neuchâtel/Adam Mickiewicz University)

Astronomy, Astrophysics and Spatial Sciences

5. **LyaGals - Understanding the origin of Lyman-alpha emission and absorption in galaxies**
Prof. Dr. Daniel Schaerer, Dr. Ivana Orlitova, Dr. Bruno Jungwiert
(University of Geneva/Czech Academy of Sciences)

Chemistry

6. **NIPSH - Nanobio-Interfaces for Photocatalytic Solar Hydrogen**
Dr. Artur Braun, Dr. Krisztina Gajdane Schrantz, Prof. Dr. Andras Dombi
(EMPA/University of Szeged)
7. **PreFeSe - "Chemical pressure" in FeSe superconductors**
Prof. Dr. Kazimierz Conder, Dr. Anna Krzton-Maziopa, Prof. Dr. Janusz Plocharski
(PSI/Warsaw University of Technology)
8. **SRILIQ Structure and reactivity studies with "inert" and redox-active room temperature ionic liquids at well-defined single crystal electrodes by the use of conductive-probe atomic force microscopy**
Dr. Peter Broekmann, Mr. Soma Vesztergom, Prof. Dr. Gyoza Lang
(University of Bern/Eötvös Loránd University)

Physics

9. **MESI - Mesoscopic Spintronics**
Prof. Dr. Daniel Loss, Dr. Peter Stano, Prof. Dr. Vladimir Buzek
(University of Basel/Slovak Academy of Sciences)

Engineering Sciences

- 10. iSHAPE - Interfaces in Shape Memory**
Dr. Yves Leterrier, Dr. Edgars Sparnins, Dr. Janis Anderson
(EPFL/University of Latvia)
- 11. HYPOTEC - Hybrid-Polymer Transparent Electronic Circuits**
Prof. Dr. Silvia Schintke, Mr. Nikolay Kurtev, Prof. Dr. Slavka Tzanova
(University of Applied Sciences and Arts Western Switzerland/Tech. University of Sofia)
- 12. SIID - Structurally Informed Interactive Design**
Prof. Dr. Philippe Block, Mr. Lukas Kurilla, Dr. Milos Florian
(ETH Zürich/Czech Technical University in Prague)
- 13. PEGAS - Relationship between Pichia pastoris cell physiology and secretion of heterologous penicillin G acylases**
Prof. Dr. Karin Kovar, Ms. Martina Plackova, Dr. Pavel Kyslik
(Zurich University of Applied Sciences/Institute of Microbiology, ASCR, v.v.i.)

Environmental Sciences

- 14. Industrial wastewater treatment by membrane bioreactor technology**
Prof. Dr. Thomas Wintgens, Mr. Lukas Dvorak, Prof. Dr. Jiri Wanner
(University of Applied Sciences and Arts Northwestern Switzerland/Institute of Chemical Technology Prague)
- 15. LANDEIA - Landscape integration in the procedure of environmental impact assessment**
Prof. Dr. Alexandre Buttler, Ms. Andreea Nita, Prof. Dr. Georgeta Ileana Patru - Stupariu
(EPFL/University of Bucharest)
- 16. MICROZO - Fate of organic micropollutants in advanced treatment of wastewater with ozone**
Dr. Christa S. McArdell, Ms. Ewa Borowska, Prof. Dr. Korneliusz Miksch
(Eawag/Silesian University of Technology)

Basic Biological Research

- 17. SkinNCSC - Control mechanisms of adult neural crest-derived stem cells in the skin**
Prof. Dr. Lukas Sommer, Mr. Vadims Parfejevs, Prof. Dr. Una Riekstina
(University of Zurich/University of Latvia)
- 18. Iba-1 protein contribution to neuropathic pain mechanism (IBA1-PAIN)**
Prof. Dr. Isabelle Decosterd, Mr. Alexandru Florian Deftu, Dr. Violeta-Paula Ristoiu
(University of Lausanne/University of Bucharest)
- 19. PhenoDrought – Phenotyping dynamic leaf growth under drought**
Prof. Dr. Bruno Studer, Dr. Kristina Jonaviciene, Dr. Gintaras Brazauskas
(ETH Zürich/Lithuanian Research Centre for Agriculture and Forestry)
- 20. PiCeGeDi - Comparison of genetic diversity at neutral and selective loci in Pinus cembra, a scattered tree species at its ecological margin in the Carpathians**
Dr. Felix Gugerli, Mr. Bertalan Lendvay, Dr. Maria Margit Hoehn
(WSL/Corvinus University of Budapest)
- 21. MitoClock - Mitochondria function and cellular clock in Alzheimer's disease**
Prof. Dr. Anne Eckert, Dr. Anna Kazmierczak, Prof. Dr. Anna Strosznajder
(University of Basel/Mossakowski Medical Research Center)

Sciex-NMS^{ch}

Scientific Exchange Programme between the New Member States of the EU and Switzerland

Sciex-NMS^{ch} is part of the Swiss Contribution to the New Member States of the EU. From 2009 to 2015, it has provided 545 research Fellowships for Doctoral Candidates (6-24 months) and PostDocs (6-18 months) from the 10 NMS (BGR, CZE, EST, HUN, LTU, LVA, POL, ROU, SVK, SVN) to pursue their research in cooperation with Swiss researchers in Swiss research institutions. It has also funded Short-term research Visits for Senior Researchers of a granted Fellowship.

www.sciex.ch

www.contribution-enlargement.admin.ch