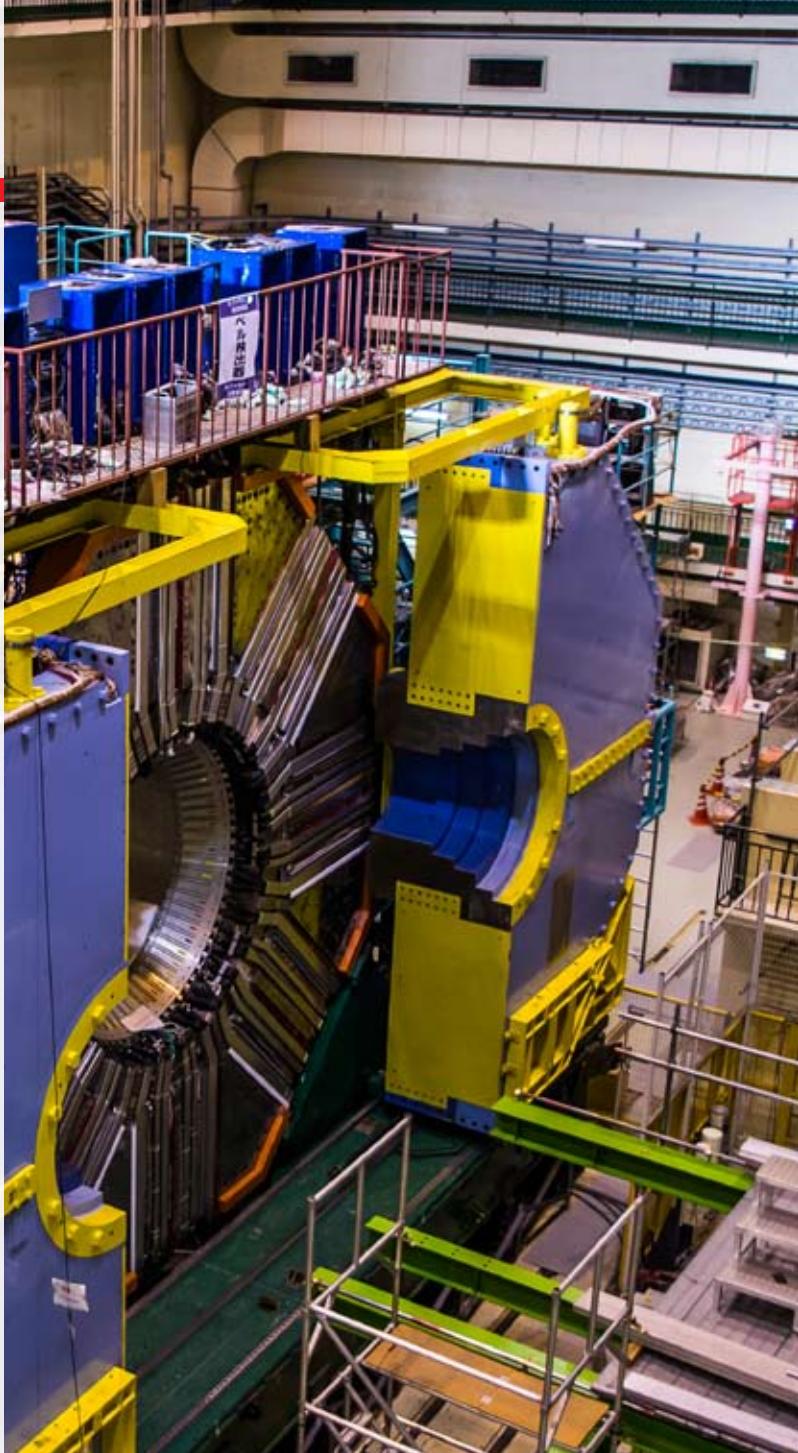


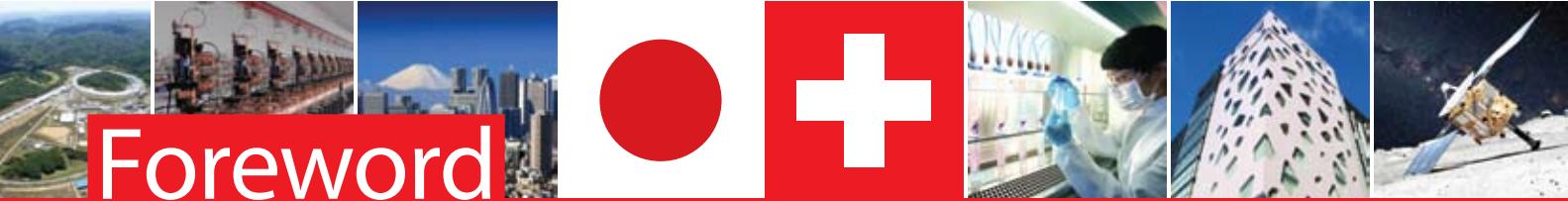




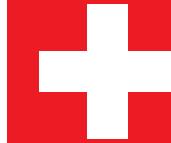
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# Foreword



Dear Reader,

Another year has passed and we are happy and proud to present to you the Annual Report 2012 of the Science & Technology Office Tokyo, to share with you all the events and activities that we were able to organize mainly thanks to you and our diverse range of supporters.

Both Switzerland and Japan have much to share and a lot to learn from each other. Even though the two nations are located thousands of kilometers apart and cultural differences are at times obvious, many similarities are easily visible.

Both countries, being in short supply of natural resources, focus instead on their brain-resources, on people. Both have committed large investments towards their education and research systems, and for both it has paid off with world-class research results, e.g. leading to the recent awarding of the Nobel Prize in Medicine to Prof. Shinya Yamanaka.

Another parallel lies in their energy policies; seeking energy efficiency is a key-interest. Efforts towards deeper collaboration in this field have recently been accelerated.

The Science & Technology Office Tokyo, a member of the Swiss Knowledge Network, is happy to be in Japan, to be able to support both the Swiss and the Japanese sides by acting as an intermediary, a bridge between the countries and the cultures. By expanding the exchange between the two nations, we hope to shrink and overcome the geographical distance.

Our activities in 2012 promoted Swiss science, technology, innovation, education, as well as design and architecture in Japan.

Key events in this year's Annual Report include the Swiss Solar Pavilion at the world's leading photovoltaic exhibition followed by a Swiss Green Technologies Seminar, the inauguration of the Alumni chapters of the Universities of Geneva and Zurich, participation at

various education fairs and the first follow-up meeting to the Demographic Ageing Dialog (ageing, another similarity between Switzerland and Japan!).

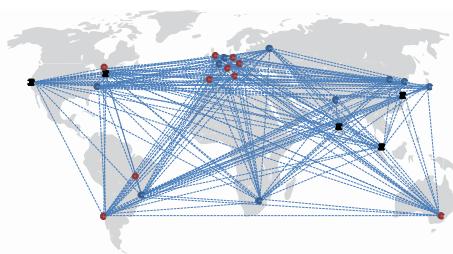
We were happy to again welcome a high-level delegation of Swiss participants to the Science and Technology for Society forum (STS forum) in Kyoto. By supporting agreements and visits, we continued to help enhance academic networks between Swiss and Japanese universities and research institutes. The 2<sup>nd</sup> Switzerland-Japan Joint Committee Meeting on S&T Research Cooperation re-emphasized the importance of Japan as a research partner for Switzerland, and the interest of Japan to collaborate with Switzerland.

The monthly Science & Technology Japan newsletter, prepared by the Science & Technology Office Tokyo, is continually growing in terms of the number of subscribers. The positive feedbacks we are receiving are very encouraging.

Our work would not be possible without the immense support from the Swiss government and our stakeholders, sponsors, partners, event participants, colleagues, and friends. We are deeply grateful for their continued commitment to strengthen the collaboration between Switzerland and Japan.

A warm thank you to all!

Science & Technology Office Tokyo team





# At a Glance

The Science & Technology Office Tokyo is an integral part of the Swiss Knowledge Network, which is a key component of Swiss foreign policy to promote science, technology, innovation and higher education. The global network, run by the Swiss State Secretariat for Education and Research (SER) in close cooperation with the Federal Department of Foreign Affairs (FDFA), currently consists of 23 science & technology counselors at selected embassies including Tokyo, as well as swissnex Boston (founded in 2000), swissnex San Francisco (2003), swissnex Singapore (2004), swissnex China (Shanghai 2007) and swissnex India (Bangalore 2010).

Science & technology counselors are responsible for creating optimal conditions for international cooperation between researchers, public and private research institutes and universities.

In each host country, science & technology counselors are also responsible for facilitating the exchange of students and professors and promoting Switzerland as a destination for higher education and scientific research. The counselors also help build and maintain personal and institutional contacts that can be of use to Swiss scientists, universities and businesses.

Japan is a special target for the Swiss Knowledge Network; the country is named in the Federal Council Dispatch on the Promotion of Education, Research and Innovation as a potential partner with which Switzerland would like to establish broader and deeper ties in bilateral research cooperation. Only eight countries outside Europe and the U.S. have been highlighted as such. A corresponding bilateral agreement has been signed between Switzerland and Japan in 2007 to secure the best possible quality in scientific cooperation and to foster long-term partnership.

To ensure the smooth implementation of these objectives, the Science & Technology Office Tokyo offers support to delegations from Switzerland in order to make their trips even more meaningful. Swiss officials,

scientists, architects, designers, engineers and specialists from high-tech start-up companies can tap into our global perspective and local expertise.

The Science & Technology Office Tokyo provides platforms for Swiss universities, university spin-offs, associations and research institutions, including the ETH Domain, so they can be well represented at large exhibitions under the Swiss umbrella.

We provide reports on Japan's science policies in the form of newsletters, summary reports and correspondences.

In addition, the Head of the Science & Technology Office Tokyo shares the chair of the Science & Technology Diplomatic Circle (S&TDC), a network of science counselors from more than 80 diplomatic missions, including the British Council, CNRS, DFG, NASA and NSF. The Swiss presence in the S&TDC, which organizes annual visits to Japanese governmental, academic and industrial institutions, helps promote Switzerland to the local and global specialists stationed in Japan.

In short, the Science & Technology Office Tokyo acts as a liaison and an information hub in the important field of science, technology, innovation and higher education. We are here to support the successful bilateral and multilateral relationships between Switzerland and Japan.

The Science & Technology Office Tokyo has seen a change in personnel in 2012 with Dr. Felix Moesner moving to the USA to become Director of swissnex Boston. His successor, Dr. Matthias Frey, joined the team in September 2012 as the Science and Technology Counselor.



# Highlights 2012

## International Industry-Academia-Government Collaboration Symposium

January 19 - 20

Hiroshima University organized a third symposium towards enhancing international industry-academia-government IAG collaboration. Switzerland and UK have been invited to showcase their experiences. Dr. Felix Moesner, Head of Science & Technology Office Tokyo gave a presentation on innovation in Switzerland with ETH Transfer as an example. The audience showed much interest in the CTI system and label to support young start-ups. Ms. Tomoka Satomi, a director of the Science & Technology Policy Bureau, Ministry of Education, Culture, Sports, Science and Technology (MEXT) explained the current state of IAG collaboration in Japan and the government's desire for more international activities. Japan plans to establish training platforms for future experts. The symposium gave insights to IP policy, actual technology transfer cases, and HR development at Hiroshima University. The university extended the wish to have more students and researcher exchanges with Switzerland.

## University of Geneva and Zurich Alumni Laid Foundation in Japan

January 24

68 alumni of University of Geneva (UNIGE) and University of Zurich (UZH), the two largest universities in Switzerland, came together at the Swiss Embassy to lay the foundations for their alumni organizations in Japan. UNIGE and UZH are the only universities that offer the comprehensive study of Japanese culture in Switzerland. Therefore, the basis for alumni organizations in Japan is ideal. Ambassador Urs Bucher in his speech encouraged the alumni to build further strong ties between Switzerland and Japan. Pascal Praplan, UNIGE Alumni Director and official representative, explained the aims of the alumni organization. Christian Schwarzenegger, UZH professor for Criminal Law and official representative, emphasized the importance of connecting fresh graduates who want to pursue a career in Japan through an alumni organization.

🌐 <http://tinyurl.com/UZH-UNIGE-Japan-2012-rep>

▶ <http://tinyurl.com/UZH-UNIGE-Japan-2012>



*"Thanks to this event, I could meet my old friends and meet participants whom I could not see during my daily life. I hope this human contact promotes and strengthens relations between Japan and Switzerland."*

**AMBASSADOR DR. TAKAKO UETA**

PROFESSOR, INTERNATIONAL CHRISTIAN UNIVERSITY (UNIGE ALUMNA)



# Highlights 2012

I would like to express our highest gratitude for the support given to our Guardian Angels event by the Swiss Embassy in Tokyo, Japan. We highly appreciated and enjoyed your kind participation and personal involvement that honored us and all our guests. The social event that followed the technical program was wonderful and we are very thankful for all the facilities kindly offered by the Swiss Embassy. The event was a success due to excellent organization and follow-up by Dr. Felix Moesner, Mrs. Kyoko Suzuki and Mrs. Karin Jaymes; many thanks to all of them! We hope that based on the event organized in Tokyo we will be able to identify concrete possibilities of cooperation with Japan and enlarge the international dimension of the FET Flagship project.

**PROF. DR. ADRIAN M. IONESCU**

EPFL FOR THE GUARDIAN ANGELS CONSORTIUM



REISHAUSER

Switzerland

IBM

EPFL  
École Polytechnique Fédérale de Lausanne

Eidgenössische Technische Hochschule Zürich  
Swiss Federal Institute of Technology Zürich

Guardian Angels

Smart apparel  
Guardian Angels  
with Bart Hess

## Swiss Science Corner and “Guardian Angels” Seminar during World’s Largest Nanotech Event

February 15 - 17

The Science & Technology Office Tokyo organized the Swiss Science Corner at the Swiss Pavilion during “nano tech 2012” in Tokyo, which is the world’s largest nanotechnology expo with over 45’000 visitors. As an added value, a high-level seminar on the EU FET flagship initiative “Guardian Angels” was held at the Swiss Residence. In order to expand the international dimension of the project, Prof. Adrian Ionescu (EPFL), Dr. Gérard Escher (EPFL) and Dr. Heike Riel (IBM Research Zurich) gave presentations on the “Guardian Angels” initiative, seeking collaboration opportunities with Japanese academia and industry. In addition, two Japanese university professors and Toshiba’s Chief Technology Executive gave short presentations. Six top-level FIRST program owners attended the event. FIRST is an acronym for the “Funding Program for World-Leading Innovative R&D on Science and Technology” awarded by the Japan Society for the Promotion of Science JSPS.

- <http://tinyurl.com/GA-nanotech-2012-report>
- <http://tinyurl.com/SCCIJ-120224>
- <http://tinyurl.com/GA-nanotech-2012-clip>



# Highlights 2012

## Swiss Science Days during Smart Energy Week 2012

February 29 - March 2

The Swiss Science Days consisting of the Swiss Solar Pavilion and the Swiss Green Technologies Seminar was organized by the Science & Technology Office Tokyo during the Smart Energy Week 2012 to promote the excellence of Switzerland's renewable and clean technologies to 90'350 visitors at one of the world's leading exhibition in this field. The Swiss Solar Pavilion at PV EXPO 2012 attracted many professionals and experts with the model of ETH Zurich's New Monte Rosa Hut, Empa's flexible solar cells and the dye-sensitized "Graetzel" solar cells from EPFL. Co-exhibitors included Fluxim, Hilti, iLAND greentechnologies, Schaffner, Zermatt Bergbahnen, Cleantech Switzerland and SWISSOLAR. The presence of Empa highlighted the distinctive advantage of Swiss research & development. Berne Economic Development Agency also joined to promote Switzerland. Co-organized by the Swiss Business Hub Japan, the Swiss Green Technologies Seminar enjoyed strong interest from attendees and presenters alike. In addition to the Pavilion co-exhibitors, ABB and Swiss Building Components had the opportunity to introduce their activities as well.

- ➲ <http://tinyurl.com/Smart-Energy-Week-2012>
- ▶ <http://tinyurl.com/Smart-Energy-Week-2012-clip>

"Swiss Green Technologies Seminar and the Swiss Solar Booth Pavilion were really helpful to us, from the academia, to bridge the technology, the research side, with the business side. We got a chance to make a lot of useful connections and I am very proud of being part of that."

**DR. CAND. RAFFAELE BORNATICO**

ETH ZURICH



"It was a great pleasure to once again attend PV Expo and the Solar Pavilion [for the] second time and I was really impressed by the staff of [the] Swiss Embassy. They really took great care of the exhibitors and [in] exhibiting what Swiss companies are doing. I also had the opportunity to participate in the Green Technologies Seminar, which was organized in an excellent manner, giving really good opportunities for Swiss research institutes and companies to present to various people here in Japan what we are doing."

**PROF. DR. AYODHYA TIWARI**

EMPA



“Very good work with media, etc. We had a lot of visits from TV and Press.”

**Mr. MARC ENGGIST**

ILAND GREEN TECHNOLOGIES SA



“The Swiss Green Technologies event has been very well organized. It was a pleasure to introduce Cleantech Switzerland activities in Japan and get a feeling about the needs and fields of opportunities in cleantech industries in Japan.”

**Mr. MARCO RHYNER**

CLEANTECH SWITZERLAND



# Highlights 2012



## First ETH-Japan Symposium for Academic Exchanges

March 7 - 9



To foster stronger student and researcher exchanges between ETH Zurich and top universities in Japan, a symposium was arranged by Prof. K. Fukuda and the ETH Organizing Committee from March 7-9 at ETH Zurich. Leading professors and their students from both countries presented and promoted recent activities. This bottom-up approach was supported by high-level participation including that of Japan's Ambassador K. Umemoto, Nobel Laureate G. Bednorz, NIMS President S. Uchioda, ETH Rector H. Wunderli, ETH Vice President R. Siegwart as well as 3 WPI project directors. The Swiss Embassy was represented by the Head of the S&T Office Tokyo. Utilizing existing funding instruments by JSPS, SNSF & CTI, it is anticipated that the match making will lead to active collaboration in a variety of fields. Applications to the seminar exceeded the number of seats available, reflecting the high interest in exchange opportunities.

## Peter Märkli Exhibition and Learning Workshop in Tokyo

May 10 - June 28

With the aim to introduce the present state of architectural education at ETH Zurich to architects and architecture students as well as to the broader public in Japan, the Peter Märkli Exhibition showcased actual drawings and models made by ETH-professor Peter Märkli and his students. The exhibition was accompanied by workshops and a symposium with Peter Märkli and other well-known architects related to ETH Zurich. The workshop, attended by 27 current and former students of architecture, focused on the topic of how space is formed and it highlighted that there is much architects can learn from studying other disciplines of art. The project was supported by the Cultural Section and the S&T Office Tokyo of the Embassy of Switzerland.







# Highlights 2012

## Japanese Elite Universities Looking for Swiss Partners



May 23

Many Japanese universities wish to reach out to foreign companies in order to expand their technology transfer network and to introduce their expertise and collaboration services. On the other hand, Swiss companies specifically looking for services, technologies or collaborative research opportunities wish to establish links to universities in Japan. Organized by the S&T Office Tokyo, the SCCIJ has offered its members a unique opportunity to learn about five top Japanese universities. At the well-attended SCCIJ Luncheon, representatives of Keio University, Kyoto University, Osaka University, Tokyo Institute of Technology and the University of Tokyo made short presentations. Each university focused on research services, technology transfer and other value-added opportunities for Swiss companies.

🌐 <http://tinyurl.com/SCCIJ-120523>

## Swiss Energy Director Visits Japan

June 18 - 20

A delegation headed by the Swiss Federal Office of Energy Director Walter Steinmann visited Japan to seek collaboration opportunities to better conserve and more efficiently produce energy. The delegation of 15 started the trip with a visit organized by the Science & Technology Office Tokyo; a tour of Japan's first District Cooling and Heating System facility using geothermal energy and the world's tallest TV broadcast tower (634m) Tokyo SkyTree. Other meetings and visits arranged by the S&T Office Tokyo were with the Ministry of the Environment, New Energy and Industrial Technology Development Organization (NEDO), National Institution of Advanced Industrial Science and Technology (AIST), National Institution of Material Sciences (NIMS), Tokyo Electric Power Company and Mayekawa Manufacturing Co. The delegation included Vaud cantonal councillor Mme Jacqueline de Quattro, CTI Deputy Director Mr. Andreas Reuter, ETH Zurich Prof. Marco Mazzotti and EPFL Prof. Hans Björn Püttgen.





## EPFL Innovation Square Presented to Top Japanese Companies

September 11 - 13

The Deputy Vice President for Innovation and Technology Transfer at EPFL, Ms. Marie-Laure Berthié, met senior R&D experts from top Japanese companies including Asahi Kasei, Konica Minolta, Panasonic, Sony, Sumitomo Bakelite and Toshiba. Ms. Berthié presented EPFL, its Innovation Square which is a venue for exchanges and meetings between the scientific research sector and companies, as well as more detailed information on research activities in specific fields tailored to each company. Areas of interest were diverse, ranging from phenol resin, semiconductor packaging, sealing materials, functional materials, infrared sensors, all-solid-state batteries, innovative solar batteries to various diagnostic technologies.



## First Follow-Up Meeting to Demographic Ageing Dialogue

September 14

The first follow-up meeting to the "Demographic Ageing in Japan and Switzerland - Action through Exchange and Dialogue" was held in conjunction with the OECD-APEC-Waseda University Joint Conference and workshops on aging society. More than 20 high-level professionals including the President of Keio University, Prof. Atsushi Seike, Prof. Hiroko Akiyama of the University of Tokyo, and Dr. Fabrizio Arigoni, head of Nestlé Research Tokyo, participated in the meeting led by Dr. Hans Groth, Chairman of the Board of the World Demographic & Ageing Forum. The lively discussion was carried over into the cocktail reception hosted by Swiss Ambassador Urs Bucher.



# Highlights 2012

## Prince of Liechtenstein Visits Tokyo

October 1 - 5

H.S.H. Hereditary Prince Alois of Liechtenstein visited Japan to officially open the "Masterworks from the Collections of the Prince of Liechtenstein" exhibition at the National Art Center Tokyo. During his stay, His Serene Highness visited the National Museum of Emerging Science and Innovation (Miraikan) and gave a lecture at the University of the Sacred Heart, demonstrating his interest in science, technology and higher education. At Miraikan, the delegation was greeted by the Director and former astronaut Dr. Mamoru Mori and was given

a guided tour of some of the museum's interesting exhibitions. At the University of Sacred Heart, an audience of more than 300 attendees, including students and alumni, gathered to hear the lecture entitled "The challenges and opportunities for small states in the time of globalization". Separately, the Liechtenstein delegation, including Prime Minister Dr. Niklaus Werner Tschütscher, also visited the Tokyo SkyTree to experience the world's tallest broadcasting tower.

**+**  
*"Please allow me to convey the gratitude of the whole delegation to you, Ambassador Bucher, and your very professional team. The visit to Japan was a complete success and a unique experience."*

**DR. KLAUS TSCHÜTSCHER**

PRIME MINISTER OF THE PRINCIPALITY OF LIECHTENSTEIN



## Strong Swiss Presence at STS Forum 2012

October 7 - 9

Switzerland once again enjoyed a strong presence at the Science and Technology for Society forum (STS forum) with the participation of high-level decision makers including Mr. Jürg Burri, Deputy Director of the State Secretariat for Education and Research (SER), Prof. Dr. Ralph Eichler, President of ETH Zurich and Prof. Dr. Rik Eggen, Deputy Director of Eawag. Mr. Burri attended the S&T Ministers Roundtable Meeting, a concurrent event organized by the Cabinet Office of Japan (CAO), and presented ideas from Switzerland on the topic "Green

Growth and Inclusiveness - The Role of International Collaboration in Science, Technology and Innovation". Prof. Eichler was asked to speak not only at a session of the main STS forum event but also at the University Presidents' Meeting hosted by the University of Tokyo. Several other Swiss participants actively participated in the STS Forum. The Ambassador of Switzerland to Japan H.E. Mr. Urs Bucher hosted a dinner in honor of the delegation with eminent guests from the Japanese side including Dr. Ryoji Noyori, President of RIKEN and winner of the Nobel Prize in Chemistry in 2001.

### Science and Technology Ministers' Roundtable Meeting

October 7, 2012 16:15-18:30, Conference Room A



# Highlights 2012



“I would like to thank the S&T Office Tokyo for the excellent support. The organization of the visits and the corresponding logistics was excellent and has greatly contributed to the success of my trip.”

**PROF. DR. RALPH EICHLER**

PRESIDENT ETH ZURICH

## Visit to Supercomputer Facility

October 9

The high-level delegation to STS forum including Prof. Dr. Ralph Eichler, President of ETH Zurich and Prof. Dr. Rik Eggen, Deputy Director of Eawag visited the supercomputer “K” at RIKEN Advanced Institute for Computational Science (AICS). Dr. Matthias Kaiserswerth, Director of IBM Zurich Research Laboratory also joined the tour. The group, accompanied by the Head of the Science & Technology Office Tokyo which organized the tour, was greeted by Dr. Kimihiko Hirao, Director of AICS. During a lunch meeting, the working situation for foreign researchers at Japanese institutions was discussed with Dr. Urs Frey who has a lab at RIKEN.

## Swiss - Japanese S&T Ministerial Meeting in Tokyo

October 12

Federal Councillor Johann Schneider-Ammann, Head of the Federal Department of Economic Affairs (FDEA), had a courtesy meeting with Japan’s Minister for Education, Culture, Sports, Science and Technology (MEXT), Ms. Makiko Tanaka, during his visit to Tokyo for the International Monetary Fund (IMF) – World Bank Annual Meeting. The two ministers confirmed the good collaboration in the fields of science, technology and education between their countries. Mr. Schneider-Ammann informed Ms. Tanaka that he will be responsible for the State Secretariat for Education, Research and Innovation (SERI) to be newly established by merging the current State Secretariat for Education and Research (SER) with the Federal Office for Professional Education and Technology (OPET) on January 1, 2013. Following the meeting, the two ministers joined an official reception hosted by Prime Minister Yoshihiko Noda.



## ETH Zurich President Meets Partner Institutions

October 10 - 11

ETH Zurich President Prof. Dr. Ralph Eichler visited several partner institutions in Japan during his two-day stay in Tokyo. Meetings were held with the Presidents of Tokyo Institute of Technology (Prof. Dr. Yoshinao Mishima), Keio University (Prof. Dr. Atsushi Seike) and Tohoku University (Prof. Dr. Susumu Satomi), with whom Prof. Eichler had frank discussions on potential areas where the partnerships could be enhanced. Mr. Jürg Burri, Deputy Director of the State Secretariat for Education and Research joined the visits where his schedule al-

lowed. Prof. Eichler also made laboratory visits at the three universities as well as the Kashiwa Campus of the University of Tokyo, another partner university. At the last visit, Prof. Eichler was greeted by two ETH Zurich alumni conducting research at the Kavli Institute for the Physics and Mathematics of the Universe (IPMU). The President of ETH Zurich also hosted a dinner with alumni which was highly appreciated as a productive way to strengthen the ETH Zurich network in Tokyo.





## Meeting with Prominent Swiss Researcher

November 3

The Science & Technology Office Tokyo of the Embassy of Switzerland organized a breakfast meeting in honor of Dr. Mathis Wackernagel who has been awarded the Blue Planet Prize by the Asahi Glass Foundation for his successful efforts in raising awareness of environmental protection issues. 15 participants, including alumni of Swiss universities, joined the event that started with a self-introduction by all participants. This was followed by an interesting 40-minute presentation of the Ecological Footprint model by Dr. Wackernagel which led to a lively discussion up to the very end of the two hour event.



*"Thank you all again for your warm hospitality and the fabulously organized breakfast seminar. You brought together a wonderful, well-informed and interested group, which made it a particular pleasure to present Global Footprint Network's initiatives. The lively conversation we had testifies that you brought the right people to the table. I enormously appreciate your team's generous support for this memorable event."*

**DR. MATHIS WACKERNAGEL**

PRESIDENT & CO-FOUNDER, GLOBAL FOOTPRINT NETWORK





## Design Prize Switzerland Exhibition and Symposium

November 6 - 18

The Design Prize Switzerland Exhibition was brought to Tokyo to present the works of winners and nominees of a biannual competition created to highlight the importance of Swiss design. The internationally touring exhibition showcased 34 products, projects and concepts ranging from textile innovations to a reinterpretation of the electric light bulb with the aim to provide insight into the current making of Swiss design and to foster dialogue and exchange with Japan. A commemorative symposium presenting acclaimed professionals from the Japanese and Swiss design communities was held on November 10 attracting over 100 participants. The events were co-organized by the Culture section and the Science & Technology Office Tokyo of the Embassy of Switzerland in Japan.



## IDEA League Visits Swiss Embassy

November 12

Students of a doctoral course offered by the IDEA League, a network of five leading European universities including ETH Zurich, visited Japan as part of their program on Ageing and Sustainability. The Science & Technology Office Tokyo supported the trip by arranging a lecture on "The Japanese Government's Efforts in an Ageing Society, From the S&T Policy Perspective" by Dr. Masuo Aizawa, Chief Executive Member of the Council for Science and Technology Policy (CSTP), Cabinet Office of Japan at the Swiss Embassy and a visit to Fujitsu Ltd.'s Innovation Showcase netCommunity which presents the leading ICT provider's visions of how ICT innovation can accommodate social changes for a prosperous future. Mr. Simon Pidoux, Head of the Economic section at the Embassy of Switzerland also gave the students a presentation on Japan's economy.

# Highlights 2012

## 2<sup>nd</sup> Switzerland-Japan Joint Committee Meeting on S&T Cooperation

November 20- 22

The second Switzerland-Japan Joint Committee Meeting on Science and Technology Cooperation was held in Tokyo to reconfirm the strong collaboration between the two countries in this field. The Joint Committee, consisting of ministries and institutions from both sides involved in the implementation of the Bilateral Agreement on Science and Technology Cooperation signed in 2007, assessed the status of scientific cooperation, confirmed their strong commitment and discussed necessary measures to enhance the collaboration between researchers and institutions. The Swiss delegation was headed by Ambassador Mauro Moruzzi, Head of Bilateral Co-operation at the State Secretariat for Education and Research (SER). Participants included Dr. Klara Sekanina, Director, Commission for Technology and Innovation (CTI), Dr. Jean-Luc Barras, Head, International Co-operation Division, Swiss National Science Foundation (SNSF), Mr. Jérôme Grosse, Director Mediacom, EPFL, Dr. Rahel Byland, Scientific Coordinator, ETH Zurich, Dr. Yasmine Inauen, Head of International Relations, University of Zurich, Ms. Caroline Mérier, Scientific Advisor, International Affairs, SER and Dr. Matthias Frey, Head, Science & Technology Office Tokyo, Embassy of Switzerland in Japan. After having met the architects of Kengo Kuma and Associates on their arrival day, the delegation visited research institutes in Tsukuba the day following the official meeting. The visits included tours of the Super Clean Room and MEMS facilities at the National Institute of Advanced Industrial Science and Technology (AIST), the WPI-MANA Research Center of the National Institute for Materials Science (NIMS), as well as the Photon Factory and Belle II experimental hall at the High Energy Accelerator Research Organization (KEK). The close of the day was marked with a reception hosted by Ambassador Urs Bucher at the Swiss Residence where all the Japanese counterparts of the Joint Committee were invited to reflect on the meeting and strengthen the collaboration.





# Highlights 2012

## Swiss University Alumni Tokyo Chapter-Presidents' Meeting

December 10

The Swiss University Alumni Tokyo Chapter-Presidents met to exchange information on their respective activities and to discuss potential participation in events commemorating the 150 year anniversary of diplomatic relations between Switzerland and Japan. Dr. Daniel Citterio and Ms. Yumiko Watanabe, (ETH Zurich), Ms. Rahel Kaegi (University of Zurich), Dr. Jean-Marc Good (University of Lausanne), Mr. Stephane Essade (EPFL) and Mr. Philip Huggenberger (University of St. Gallen) joined the meeting organized by the Science & Technology Office Tokyo. The gathering was also a good occasion to consider possibilities to enhance networking between the respective chapters.



## Education Fairs Aimed at Top Candidates

Switzerland again enjoyed a strong presence at education fairs targeting high-level students in Japan. The Science & Technology Office Tokyo represented Swiss universities at Study Abroad Fairs hosted by the Tokyo Institute of Technology on April 18, the University of Tokyo on April 27 and Keio University on June 11. Many students wished to take advantage of the exchange programs between their schools and Swiss universities. Most students also asked about the availability of internships and scholarships. As in previous years, there was a strong interest in short-term courses and bachelor courses taught in English. Separately, the S&T Office Tokyo participated in the first European Higher Education Fair (EHEF) in Japan, organized by the European Commission. The EHEF also held a match-making session between Japanese universities and potential European partners. Four Japanese universities in particular expressed specific interest in contacting Swiss counterparts and the leads were provided to the universities in Switzerland through the S&T Office Tokyo.

- ▶ [www.swiss-university.org/JapanEduFairs/U-Tokyo\\_2012.html](http://www.swiss-university.org/JapanEduFairs/U-Tokyo_2012.html)
- ▶ [www.swiss-university.org/JapanEduFairs/TiTech\\_2012.html](http://www.swiss-university.org/JapanEduFairs/TiTech_2012.html)
- ▶ [www.swiss-university.org/JapanEduFairs/Keio\\_2012.html](http://www.swiss-university.org/JapanEduFairs/Keio_2012.html)
- ▶ [www.swiss-university.org/JapanEduFairs/EHEF\\_2012.html](http://www.swiss-university.org/JapanEduFairs/EHEF_2012.html)
- ▶ <http://tinyurl.com/Tokyo-Tech-EduFair2012>
- ▶ <http://tinyurl.com/Keio-2012>
- ▶ <http://tinyurl.com/EHEF-2012>

# Education Fairs



"The Swiss Universities Booth attracted many prospective students with their appealing display and hospitality. Their excellent presentation, using detailed statistics and attractive visuals, was concise and conveyed the appeal and merit of studying in Switzerland."

**PROF. KATSUNORI HANAMURA**

CHAIR, INTERNATIONAL EDUCATION COMMITTEE, TOKYO INSTITUTE OF TECHNOLOGY



"The Swiss booth was definitely one of the best booths of all participating organizations. Questions from attendees were answered and advice was carefully given at the Swiss booth."

**MR. HIROYUKI SHIMA**

STAFF, INTERNATIONAL EXCHANGE GROUP, THE UNIVERSITY OF TOKYO



"I found the Swiss representation wonderful! Best location with nice staff. I really hope I can find a good chance to study in Switzerland with a scholarship."

**MR. SHUANG GENG**

GRADUATE SCHOOLS FOR LAW AND POLITICS, THE UNIVERSITY OF TOKYO



"A friend had recommended Switzerland [as a place to study] but I had little knowledge of the country. After talking [with the Science & Technology Office Tokyo, Swiss Embassy], I became interested in Switzerland's unique characteristics such as its internationality and its safe living environment and began to think I would want to study there "

**MS. YURIKA SEKI**

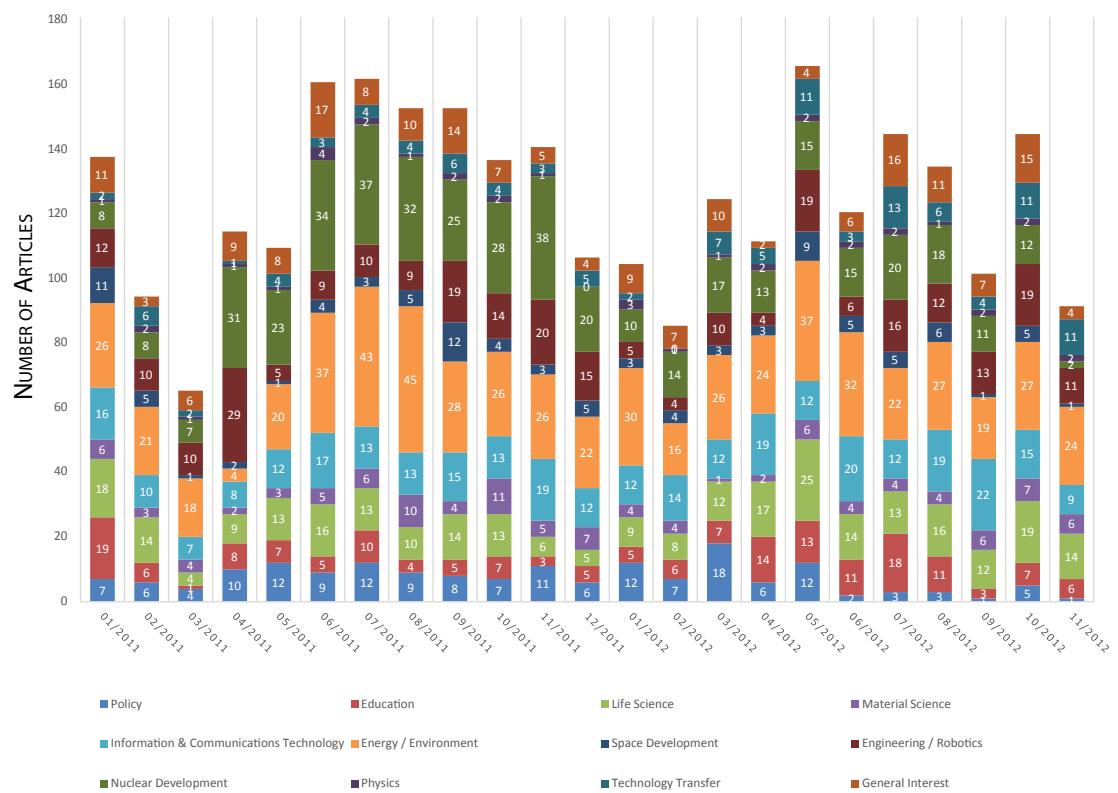
STUDENT

# Communication & Media

## ST Newsletter from Japan

Launched in 2003, the “Science & Technology Newsletter from Japan” with more than 5'000 followers is an important tool to regularly report intelligence work on latest developments in Japan back to Switzerland. In November 2012, the total number of news summaries reported to Switzerland surpassed the 14'000 mark, now with a total of 14'134 news summaries.

In 2012, an average of 120 executive summaries have been sent out every month and a total of 70 policy summaries were delivered reporting the latest steps taken by the Japanese government. The following chart shows the topics and the number of news articles from January 2011 to November 2012; “Energy/ Environment” accounted for the highest number of articles.





## Science-Switzerland Newsletter



*"Dear Science & Technology Office, I just wanted to mention that your newsletters are always very interesting and of high news value including the latest newsletter. Thank you very much!"*

**MR. MARTIN STRICKER**

PRESIDENT, SWISS CHAMBER OF COMMERCE & INDUSTRY IN JAPAN



Embassy of Switzerland in Japan  
State Secretariat for Education and Research SER

### Science & Technology News from Japan, November 2012

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#### First Follow-Up Meeting To Demographic Aging Dialogue

(September 14, 2012)

The 1<sup>st</sup> follow-up meeting to the "Demographic Aging in Japan and Switzerland: Action through Exchange and Dialogue" was held in conjunction with the OECD-APEC-Waseda University Conference on "Demographic Aging and Sustainable Growth". The Japanese delegation, including the President of Keio University, Prof. Atsushi Seike, and Prof. Hiroko Akiyama of the University of Tokyo, participated in the meeting led by Dr. Hans Groth, Chairman of the World Demographic & Aging Forum. The lively discussion was carried over into the public discussion hosted by Swiss Ambassador Urs Bucher.

#### Prince Of Liechtenstein Visits Tokyo

H.S.H. Hereditary Prince Albert of Liechtenstein visited Japan to officially open the "Masterworks from the Collections of the Prince of Liechtenstein" exhibition at the National Art Center Tokyo. During his stay, His Serene Highness visited the National Museum of Emerging Science and Innovation (Miraikan) and gave a lecture at the University of the Sacred Heart, demoted to the rank of a small town in 2011. On October 1<sup>st</sup>, the Prince of Liechtenstein delegation was greeted by the Director and former astronaut Mr. Mamoru Mori and was given a guided tour of some of the museum's interesting exhibitions. At the University of Sacred Heart, an audience of more than 100 students gathered to hear His Serene Highness speak. The王子和天皇陛下の訪問は、世界の小さな州が国際化する機会であると述べました。The Prince also had the opportunity to meet with the Japanese Prime Minister. The Prince of Liechtenstein delegation, including His Excellency Dr. Niklaus Werner Tschütscher, also visited the Tokyo Skytree to experience the world's tallest broadcasting tower.

#### Strong Swiss Presence At STS Forum 2012

Swiss delegations held a strong presence at the Science and Technology for Sustainability (STS) forum with participation of high-level science and technology leaders including Mr. Jung Burn, Deputy Director of the State Secretariat for Education and Research (SER), Prof. Dr. Ralph Eichler, President of ETH Zurich and Prof. Dr. Rik Eggen, Deputy Director of Eawag. Mr. Bruno Bichsel, Head of the Swiss Delegation, opened the event with a speech to the Japanese Cabinet Office of Japan (CAO), and presented ideas from Switzerland on the topic "Green Growth and Inclusiveness - The Role of International Collaboration in Science, Technology and Innovation". Prof. Eichler was asked to speak on behalf of the Swiss delegation at the opening of the STS forum and also at the University Presidents' Meeting organized by the University of Tokyo. Several other Swiss scientists also participated in the STS Forum. The Ambassador of Switzerland to Japan, H.E. Urs Bucher hosted a dinner in honor of the delegation with eminent guests from the Japanese side including Dr. Ryoki Noyori, President of RIKEN and winner of the Nobel Prize in Chemistry in 2001.

(October 01-05, 2012)

(October 07-09, 2012)



*"I read the last ST news and would like to testify that it is a great issue and the high level of your predecessor is certainly kept."*

**PROF. DR. NAVA SETTER**

DIRECTOR OF THE CERAMICS LABORATORY, EPFL

Over the past few years, the Science & Technology Office Tokyo, together with swissnex San Francisco and now with swissnex Boston, has been producing the "Science-Switzerland" newsletter, an electronic publication designed to promote Swiss excellence in education, science, technology and innovation. This newsletter, aimed at busy people around the globe, reports short summaries of top-highlights on the latest developments in Switzerland. Currently, there are around 12'000 subscribers; distribution channels, in addition to the Swiss Knowledge Network, include Swiss diplomatic missions, foreign diplomatic missions in Bern, as well as Swiss Business Hubs.

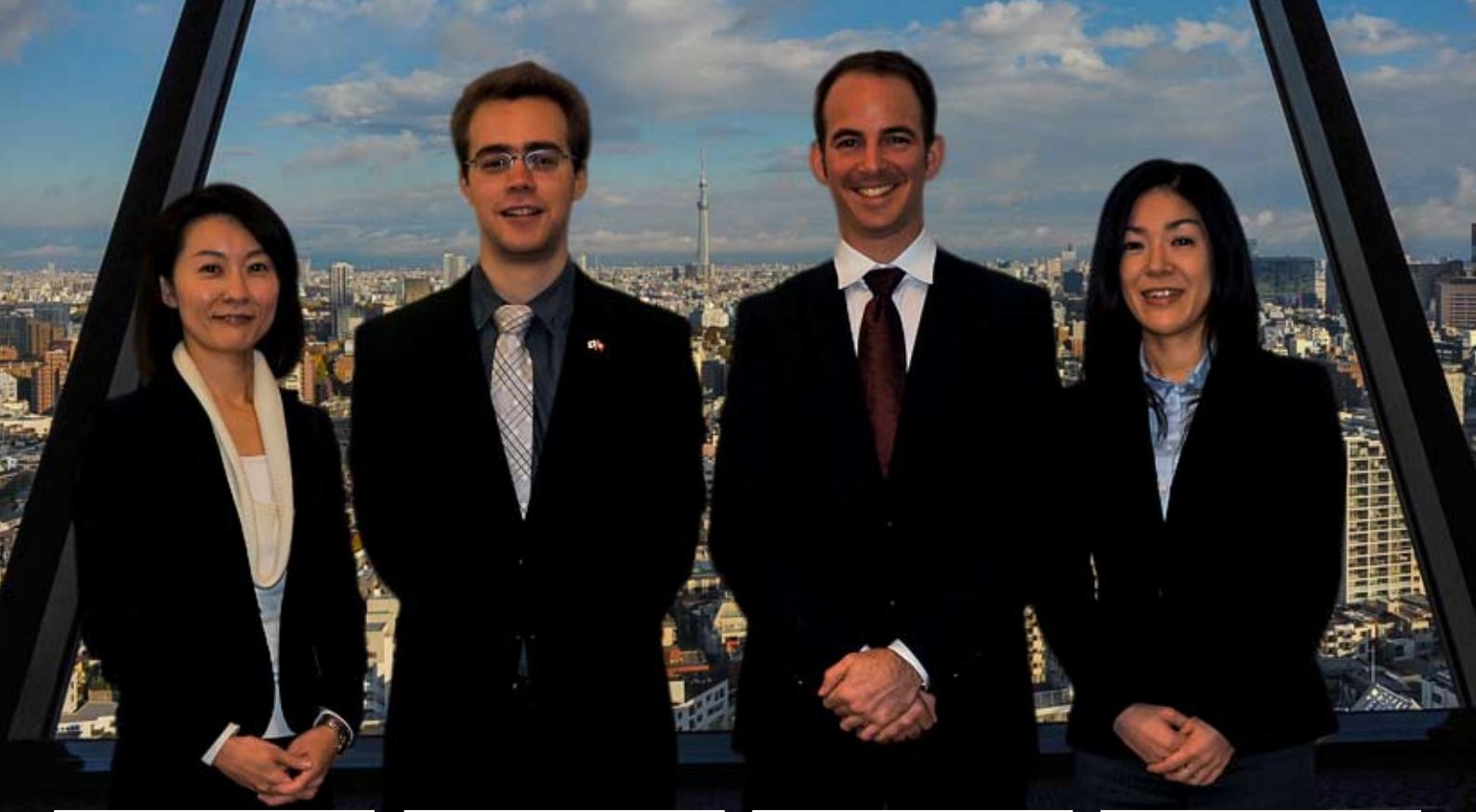
Since moving to the USA, Dr. Felix Moesner, the former head of the Science & Technology Office Tokyo, is now publishing the newsletter from swissnex Boston. We are, however, happy to continue to support this valuable tool for disseminating Swiss prominence in the global science, education, research and innovation community.

Back numbers: [www.swissinnovation.org/Science-Switzerland](http://www.swissinnovation.org/Science-Switzerland)

## Video Clips

- ▶ <http://tinyurl.com/UZH-UNIGE-Japan-2012>
- ▶ <http://tinyurl.com/GA-nanotech-2012-clip>
- ▶ <http://tinyurl.com/Smart-Energy-Week-2012-clip>
- ▶ <http://tinyurl.com/Tokyo-Tech-EduFair2012>
- ▶ <http://tinyurl.com/Keio-2012>
- ▶ <http://tinyurl.com/EHEF-2012>

# Team



**Ms. Kyoko Suzuki**  
Deputy Head, Science &  
Technology Office

**Mr. Raphael Ochsenbein**  
Trainee

**Dr. Matthias Frey**  
Head, Science & Technology  
Office

**Ms. Yasuko Matsumoto**  
Secretary

# Interns

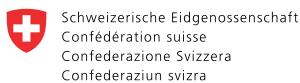


A total of 18 interns have supported the Science & Technology Office Tokyo over the past years, establishing themselves as an integral part of the team.

- 17** **Raphael Ochsenbein** (Aug. 2012 - Dec. 2012)  
BA in Social Sciences, University of Zurich
- 16** **Tilman Tröster** (May 2012 - Aug. 2012)  
MSc in Physics, ETH Zurich
- 15** **Tamara Saad** (Jan. 2012 - May 2012)  
MA in Comparative and Int. Studies, ETH Zurich
- 14** **Samuel Krebs** (Oct. 2011 - Apr. 2012)  
MA in Japanese Studies, University of Zurich
- 13** **Lorenzo Dentella** (Aug. 2011 - Dec. 2011)  
MSc in Architecture, UAS of Geneva
- 12** **Doran Deluz** (Jun. 2011 - Oct. 2011)  
MSc in Physics, EPFL
- 11** **Marcel Hegnauer** (Mar. 2011)  
MSc in Applied Geophysics, ETH Zurich
- 10** **Antonia Lundquist** (Nov. 2010 - Mar. 2011)  
MSc in Life Sciences & Technology, EPFL
- 9** **Flurina Bieler** (Oct. 2010 - Nov. 2010)  
BA in Japanese, University of Zurich

- 8** **Philippe Labouchère** (Jun. 2010 - Oct. 2010)  
MSc in Physics, ETH Zurich
- 7** **Richard Meunier** (Jan. 2010 - May 2010)  
MSc in Physics, EPFL
- 6** **Yannick Do** (Aug. 2009 - Nov. 2009)  
MSc in Communication Systems, EPFL
- 5** **Sonia Ackermann** (May 2009 - Jul. 2009)  
Ph.D., M.S in Earth Sciences, UNIBAS
- 4** **Oliver DeCaro** (May 2008 - Oct. 2008)  
BSc. Eng. in Natural Resource Management, UAS of Western Switzerland
- 3** **Amanda Prorok** (Apr. 2007 - Dec. 2007)  
MSc Computer Science, EPFL
- 2** **Harald Wendler** (Jan. 2006 - Mar. 2007)  
BSc in Physics and MSc in Japanese, UNIGE
- 1** **Caroline M. L. Nagai** (Oct. 2004 - Dec. 2005)  
Faculty of Law, University of Fribourg

# Sponsors & Partners



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Federal Office for Professional Education and Technology OPET  
Innovation Promotion Agency CTI  
Swiss Federal Office of Energy SFOE



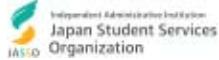
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aqueous research gmo



EMPA  
Materials Science & Technology

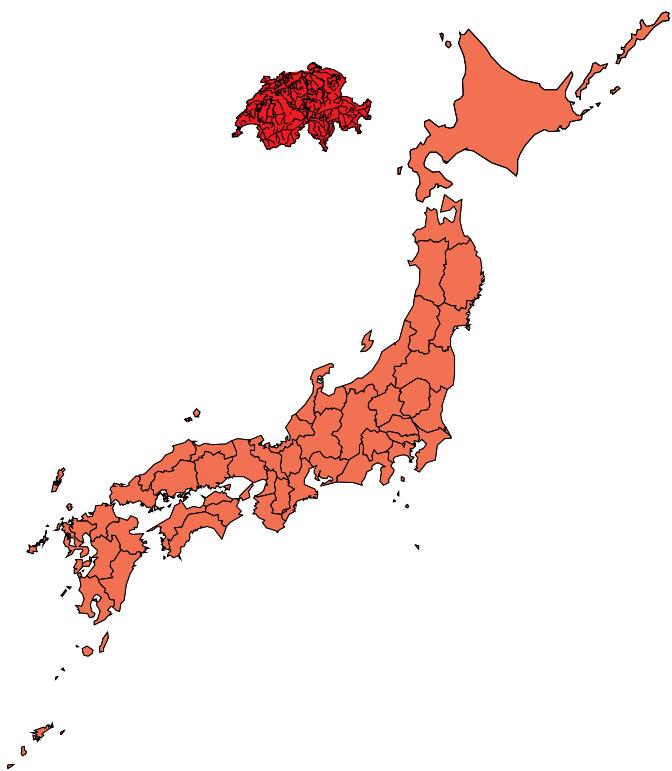
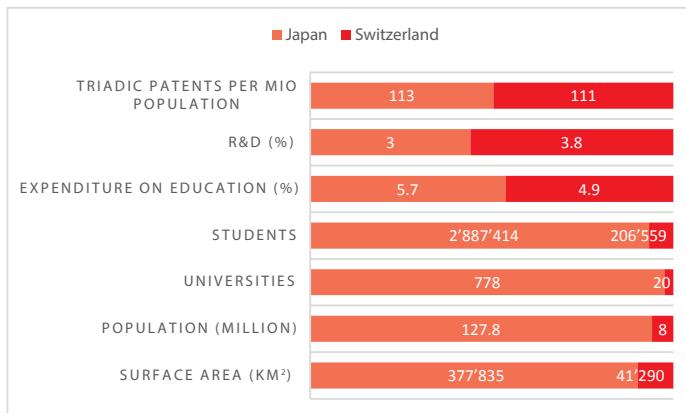


European Commission



# Japan

- ⌚ Capital city: Tokyo (world's most populous metropolitan; 35 million people including Yokohama)
- ⌚ 1<sup>st</sup> spacecraft to return with material from asteroid (Hayabusa space probe)
- ⌚ No. 1 ranked university in Asia – the University of Tokyo
- ⌚ World's 3<sup>rd</sup> fastest supercomputer "K" (10 petaflops)
- ⌚ First to generate induced pluripotent stem cells (iPS)
- ⌚ Economy: 3<sup>rd</sup> biggest Global Power
- ⌚ Most powerful synchrotron radiation (8 GeV)
- ⌚ 95% success rate for rocket launches
- ⌚ 19 Nobel laureates
- ⌚ Shinkansen – Zero accidents in 47 years
- ⌚ Tallest TV broadcast tower – Tokyo SkyTree





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$$\text{Im } i e^{i\varphi} = \cos \varphi + i \sin \varphi$$

$\Delta E = k\gamma$