ANNUAL REPORT 2011

RESEARCH COMMISSION EPFL SNSF
THE YEAR IN REVIEW

Message of the chair:

This year again, the signs of the quality of the research performed at EPFL and of its constant improvement are everywhere. We may for example cite the new ERC grants, the new NCCRs, a few major international awards and, last not least, the selection of two flagship projects headed from EPFL.

The role of the research commission may seem invisible to most members of EPFL because it does not work under the sunlight. The reflection it carries out on strategical issues or on ethics for example corresponds to long term work that only has subtle influence on the life of the school. In the same way, the work required for the attribution of grants or prizes requires an amount of work that is often not recognized apart perhaps from the recipients. This year particularly, the successful Cofund project for EPFL Fellows grants has been awarded to EPFL, mainly through the dedicated work of the manager of the research commission, Caroline Vandevyver.

I would like to very warmly thank all the members of the research commission for their time and dedication. Without their dedication and their hard work, the research commission would not be working properly. I would also like to welcome very warmly our new members as well as our new Déléguée à la Recherche.

Prof. Benoit Deveaud-Plédran

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TASKS OF THE RESEARCH COMMISSION TOWARDS THE SNSF

- Reviewing applications for fellowships for advanced researchers
- Reviewing and granting fellowships for prospective researchers
- Grant policy@EPFL

TASKS OF THE RESEARCH COMMISSION TOWARDS THE EPFL

- Promotion of Research at EPFL.
- Reflection on the strategy and rules of EPFL, inputs for the Direction
- Reviewing research proposals submitted to the SNF or to similar granting institutions, upon request from the Délégué à la recherche
- Reviewing equipment requests submitted to the EPFL, upon request from the Délégué à la recherche
- Submission of the Cofund project: EPFL-fellows.
- Selection of the Symposium Latsis 2012
- Selection of the awardees of the following research prizes:
  - Prix de la Fondation Latsis Internationale 2011
  - EPFL doctorate awards
  - Professor René Wasserman award
  - Dupont des Matériaux award
  - Fondation Dimitris N. Chorafas awards
  - Designation of the chair of the jury for the ABB award
- Participation in the organization of the “Journée Magistrale” and “Research Day” – Research Award Distributions
- Organization of the external review of the NCCBI and ranking of the proposals.
- Coordination of the proposals for international research awards
- Selection of the AXA Research Fund Postdoctoral and PhD fellowship applications.
- T1 scoring of the SCIEX applications.
FELLOWSHIPS FOR ADVANCED RESEARCHERS

AIM

Fellowships for advanced researchers enable young scientists planning to follow an academic career to benefit from a stay abroad in order to increase their knowledge and scientific reputation.

These fellowships for overseas visits in any discipline are supported by the Swiss National Science Foundation (SNSF), except in experimental and clinical medicine (see below). Funding includes personal maintenance, a fixed sum for travel expenses and may include a contribution towards research and conference expenses. The amount of the fellowship is based on personal details, family obligations and cost of living in the host country and runs for a period of 12 to 36 months. (From: http://www.snf.ch/E/funding/individuals/advanced-researchers/Pages/default.aspx)

APPLICATIONS

In 2011, the RC has reviewed 17 applications (12 applications - in 2010); 14 of them have been granted by the SNSF for a total amount of 1’345’120 CHF (total amount granted: 835’390 CHF in 2010).

Figure 1 shows the number of applications and the success rate of the last nine years for this fellowship program. The evolution of the allocated funds for Advanced Researchers is given in Figure 2.

![Figure 1 Evolution of application numbers for advanced researcher fellowships and success rates, 2003 – 2011](image)
Figure 2 Allocation (CHF) from the SNSF for fellowships for advanced researchers at EPFL, 2003-2011

For further information please visit:

HTTP://COMMISSION-RECHERCHE.EPFL.CH/SNSFADVANCED
FELLOWSHIPS FOR PROSPECTIVE RESEARCHERS

AIM

Fellowships for prospective researchers offer young scientists, who are at the point of starting their research career, the possibility to stay at a research institution abroad.

These fellowships for a stay overseas are allocated in all disciplines supported by the Swiss National Science Foundation (SNSF). Funding includes personal maintenance, a fixed sum for travel expenses and may include a contribution towards research and conference expenses. The amount of the fellowship is based on family status, family obligations and cost of living in the host country. For more information about the duration, please contact the local Research Commission (postdoctoral fellowships: 12 to 36 month; doctoral fellowships: 6 to 24 month). (From: http://www.snf.ch/E/funding/individuals/prospective‐researchers/Pages/default.aspx)

APPLICATIONS

In 2011, the RC has reviewed 55 applications (75 in 2010); 30 (34 in 2010) fellowships have been approved for a total amount of 2’175’800.- CHF (2’326’810.- CHF in 2010). The SNSF did accord the RC an additional allocation of 602’000 CHF (+ 28 %).

Figure 3 shows the number of applications and the success rate of the last nine years for this fellowship program. The evolution of the allocated funds for Prospective Researchers is given in Figure 4.
PROFESSIONAL OUTCOME OF THE PROGRAMME

AIM

A follow-up of EPFL grantees of SNSF prospective researcher grants has been launched, with the aim of establishing a track record of their career achievements. For the time being the database which has been established goes back to the year 2000. To determine the influence of the programme on the careers of the granted vs. not granted people, updated CVs and information on the current position (July 2011) have been looked for via web searches of the applicants from 2000 to 2008 (# 338). After omitting resubmissions and prolongations (# 35), information on 256 applicants (84.5 %) has been collected (Table 1).

Table 1 Database current positions of applicants to an SNSF fellowship, 2000 - 2008

<table>
<thead>
<tr>
<th>Fellowship</th>
<th>#</th>
<th>%</th>
<th>Gender</th>
<th>#</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approved</td>
<td>192</td>
<td>75.0</td>
<td>M</td>
<td>203</td>
<td>79.3</td>
</tr>
<tr>
<td>Not Approved</td>
<td>47</td>
<td>18.4</td>
<td>W</td>
<td>53</td>
<td>20.7</td>
</tr>
<tr>
<td>Withdrawn</td>
<td>17</td>
<td>6.6</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The following classification was made:

- **Academic career** – Lecture, Tenure Track-, Associate-, Full Professor in an academic environment
- **Research career** – Post Doctoral position in an academic environment
- **Industrial career** – Post Doctoral position in industry
- **Others** – none of the above

### RESULTS

**PROFESSIONAL OUTCOME OF GRANTED/NOT GRANTED APPLICANTS**

The distribution of the current positions of the granted/not granted people is shown in Figure 5. The proportion of beneficiaries remaining in the academic world is much higher - three-quarters against less than half for non-beneficiaries – and of these, **24 %** (# 45/192; M/W = 39/6) have become professors (min 2 year - max 10 years after the SNSF fellowship) vs. **15 %** (# 7/45; M/W = 5/2) of the not granted people and **35 %** (# 6/17; M/W = 4/2) of the people who withdraw a granted fellowship (because they had a better offer). Receiving a fellowship is therefore significant for continuing an academic career. As shown in Figure 6, the percentage of granted people who became a professor is the highest for the early calls in this survey, namely call of the year 2000 – 2004, this means that people need between 6 and 10 years of postdoctoral experience before they are established as a professor in the academic world.

![Figure 5 Distribution of the current positions of the granted/not granted people, 2000 – 2008](image-url)
So, from an academic perspective, the probability of becoming a professor was greater for a person who received a fellowship (SNSF or other). However, it was proportionally lower for women than for men. As shown in Figure 7, women fellowship beneficiaries seem to be somewhat less successful in getting an academic position compared to men, this trend was inverted for the not granted population and for the applicants who withdraw their fellowship. The proportion of women beneficiaries who stays in academics is however higher than for men beneficiaries: 91 % vs. 72 %. Men beneficiaries seem to prefer a position in the industry after the fellowship, if they did not become a professor.
GEOGRAPHY OF THE CURRENT POSITION OF GRANTED/NOT GRANTED PEOPLE

41% of the responsive people (106 out of 256) lived in Switzerland at the moment of the survey. Compared to non-beneficiaries, SNSF fellows are less employed in Switzerland than abroad (39% vs. 57%).

The question of brain gain/brain drain is not so easy to evaluate. The percentage of beneficiaries that return to Swiss academia is lower than for non-beneficiaries: 29% vs. 43% became a professor and 34% vs. 67% became post-doctoral researcher at a Swiss university, while about the same percentage for both groups is coming back to Swiss industry (60% of beneficiaries vs. 54% of non-beneficiaries) (Figure 8). It should be noticed that 11 of the 13 professor positions at Swiss universities are occupied by beneficiaries of Swiss origin. Being granted a fellowship apparently opens new opportunities for the researcher at different universities all around the world and results in an increased internationalisation of their professional outcome.

CONCLUSION

After becoming fellowship recipients, more than three-quarters of the candidates remained in the academic world (vs. 40% for non-beneficiaries), and of these around 20% have become professors. Receiving a fellowship is therefore significant for continuing an academic career. From the perspective of academic career development, it is clear that the probability of becoming a professor directly depends on the elapsed time since the fellowship and the field of research.

The impact of the Fellowship on brain gain/brain drain is also not so easy to evaluate. The percentage of beneficiaries that return to Swiss academics is lower than for non-beneficiaries, while about the same
percentage for both groups is coming back to Swiss industry. Being awarded a Fellowship apparently opens new opportunities in academic institutions worldwide for the candidates.

Following this study, two lines of attention have been defined in favour of the promotion of women scientists:

i) be very careful at the selection stage, it does not appear reasonable that the files of female candidates would be systematically lower in terms of quality,

ii) provide additional help – to be defined – to favour their academic career.

FOR FURTHER INFORMATION PLEASE VISIT

HTTP://COMMISSION-RECHERCHE.EPFL.CH/SNFPROSPECTIVE
DOCTORAL FELLOWSHIPS IN IMAGING TECHNOLOGY FOR BIOLOGY AND MEDICINE

AIM

The National Competence Center in Biomedical Imaging (NCCBI) is an initiative in biomedical imaging launched by the ETH domain. Its mission is to advance imaging technology in Switzerland beyond institution-specific investments and activities. The NCCBI funds doctoral fellowships in imaging technology for biology and medicine since 2008. This joint doctoral program, currently funding 27 PhD fellowships, serves to develop synergies among the academic institutions involved and to coordinate imaging investments within the ETH domain.

The formation of NCCBI is based on two geographical centers, namely the ETHZ and PSI along with affiliated institutions represented by the Zurich Center of IMaging Science and Technology (CIMST) on one hand, and the EPFL along with affiliated institutions represented by the Centre d’Imagerie BioMedicale (CIBM) on the other hand. (From: http://www.nccbi.ch/)

The joint Biomedical Imaging Initiative of EPFL and ETHZ (NCCBI) launched a fourth call for proposals for doctoral fellowships in Imaging Technology for Biology and Medicine (deadline July 1, 2011). 10 applications were filed. The RC was responsible for the assessment of the proposals. Therefore, a special assessment form has been developed, which has been sent to external reviewers. After collecting the assessments, a ranking of the proposals was transferred to the steering committee.

OUTCOME

The following proposals were funded:

1. Fast immunostaining and surface imaging of breast cancer tumorectomy dissection samples for intra-operative examination. Prof. M. Gijs (EPFL), Prof. G. Szekely (ETHZ) and Prof. H-A. Lehr (CHUV, UNIL)

2. Differential phase contrast mammography. Prof. M. Stampanoni (PSI, ETHZ), Dr. N. Hauser (KS Baden), Prof. M. Hohl (UniBasel), Prof. R. Kubik-Huch (UniZH, KSB), Prof. M. Unser (EPFL)

3. Non-invasive high resolution near-infrared imaging of the neonatal brain based on time-resolved single photon detector arrays. Dr. Martin Wolf (ETHZ, USZ) and Prof. Edoardo Charbon (EPFL)

4. Determination of cerebral metabolic fluxes coupling neurotransmission modifications during functional brain activation. Dr. J. Duarte (EPFL), Dr. N. Just (EPFL), Prof. R. Gruetter (EPFL), Prof. G. Rainer (UniFrib) and Prof. K. Martin (UniZH, ETHZ)

5. Self-regulated illusions for chronic pain. Prof. O. Blanke (EPFL), Prof. R. Gassert (ETHZ) and Dr. J. Sulzer

6. In vitro and in vivo 3D structural analysis of biological macromolecules by cryo-electron microscopy/tomography. Prof. P. Leiman (EPFL) and Dr. T. Ishikawa (PSI)

FOR FURTHER INFORMATION PLEASE VISIT

HTTP://WWW.NCCBI.CH/
AIM

The Sciex-NMSch Program aims to foster the scientific capacities in eight New Member States (NMS) in funding research training placements in Switzerland of PhD candidates and Postdocs researchers. The RC filed 17 applications for the 4th call and 19 for the 5th call, and performed the evaluation (T1-scoring) as requested by the Sciex office.

OUTCOME

Accepted proposals 4th call:

Hungary

2. Jian Zhao: “SHEROWA” Shear strength test of host rocks of radioactive waste disposal sites.

Lithuania


Slovakia


The results of the 5th call will be known mid-2012.

FOR FURTHER INFORMATION PLEASE VISIT

HTTP://WWW.CRUS.CH/HOMENAVIGATION/ACCUEIL.HTML?L=1

AXA RESEARCH FUND

The research commission performed a selection of the institutional submissions to the AXA Research Fund for the Post-Doctoral (2) and PhD (2) fellowships. The selection was transmitted to Eric Merck who did submit the application to the AXA fund.

FOR FURTHER INFORMATION PLEASE VISIT

HTTP://WWW.AXA-RESEARCH.ORG/HOW-TO-OBTAIN-FUNDING
COFUND PROJECT: EPFL-FELLOWS

AIM

COFUND (a funding scheme under the Marie Curie Actions) is a unique opportunity to boost institution’s international dimension. COFUND supports post doctorate fellowship programmes that institutions already runs or intends to launch. The contribution of the European Commission (EC) covers up to 40% of your initial budget, with an overall maximum of €10 million/project. Selected projects which are co-funded by the EC have duration of 2 to 5 years.

EPFL-FELLOWS

The RC did file a COFUND project (call February 2011) entitled EPFL-Fellows to the 7th Framework programme Marie Curie Actions People. We propose to extend the current mobility programmes at the EPFL (Figure 9) with a new incoming mobility programme called EPFL Fellows, which aims to attract experienced researchers (<5 years after PhD or equivalent) of any nationality to the EPFL and to re-integrate researchers with a doctoral degree from a Swiss Institution after a stay abroad of at least 3 years. The project aims to fund 4 x 12 postdoctoral fellows for 24 months.

The project has been funded with a EU contribution of 2’340 k€. The start of the project is foreseen in 2013 with a first call for proposals with as deadline October 1, 2013.
LATSIS SYMPOSIUM

LATSIS SYMPOSIUM 2011: MAPPING ETHICS. NEW TRENDS IN CARTOGRAPHY AND SOCIAL RESPONSABILITY. (APRIL 14-15, 2011)

Beyond any doubt, cartographic production is not remaining the monopoly of a restricted circle of specialists anymore. There is no longer any implicit agreement about maps.

Meanwhile, scientific and technological innovations are drastically modifying the boundaries between what is a map and what is not; between geographical data and cartographical language; between science, technology, art and communication.

At the same time, there is a strong need for cartographic instruments in order to empower the identity of citizen-cartographers. Ordinary individuals are not only using and thinking about topographical territories but topological networks, too. Many of them are involved in multi-scale, complex decision-making processes and, in doing so, they handle various kinds of maps.

This threefold and simultaneous movement is no coincidence and invites a serious self-analysis. It appeals an innovative frame to think about ethics - as a fundamental component of reflexivity. In other words, what are the social values and responsible attitudes that are at stake in cartographic practices?

The goal of this symposium is to gather original and inspiring contributions. Accordingly, it has been designed to offer three major and unique features: i) open-minded public lectures with cartographic outsiders; ii) a real space to organize complex thought and reflections with a comfortable duration of time for keynotes speeches; iii) lively debates with informed speakers through in-depth panel discussions.

(From: http://www.eidolon.ch/eidolon/En_Symposium.html)

LATSIS SYMPOSIUM 2012

This year 4 applications were filed. The candidates presented their research to the RC and after deliberation; the RC has proposed to grant the symposium Latsis 2012 to the proposal

« The benefits of transportation research for society »

One of the missions of the Research Commission is to reward the young researchers who performed particularly well during the past year, in granting them one of the EPFL research awards. These research awards are distributed during the “Research Day” and the “Magistale” at EPFL.

**EPFL RESEARCH DAY - 07.06.11**

Lecture by Bob Langer - Bob Langer is a pioneer in the use of biomaterials for tissue engineering and drug delivery. His research focuses on using nanotechnology to develop new targeted strategies for cancer treatment.

“MAGISTRALE” – 15.10.11

Lecture by Michel Mayor - Michel Mayor’s name will forever be associated with the 1995 discovery of the first exoplanet. This world-renowned Swiss astrophysicist, a member of the Geneva Observatory, has repeatedly shared, with great talent and generosity, the story of his success and his vision of outer space.

**DOCTOR HONORIS CAUSA**

- Hanna Damasio, Directrice du Centre de neuroimagerie Dana Dornsife, University of Southern California
- Antonio R. Damasio, Directeur de l’Institut pour l’étude neurologique de l’émotion et de la créativité, University of Southern California
- Roberto Car, Professeur en chimie, Princeton University
- Subra Suresh, Directeur de la «National Science Foundation», (USA)
IBM RESEARCH AWARD

The "IBM Research" prize - sponsored by IBM Research GmbH Zurich Research Laboratory - rewards a doctoral thesis or a master project, undertaken at the EPFL. It is aimed at promoting research in computational sciences and recognizes outstanding projects developing advanced modelling and simulation methods or their applications to important topics in diverse areas of science (physics, chemistry, and biology) and engineering.

MARINONI ALESSANDRO

"For providing a physical explanation for the strong dependence of turbulence and transport in thermonuclear plasmas on the plasma shape through the application of the most advanced particle-trajectory codes" Dr. Stefano Coda

PROF. RENÉ WASSERMAN AWARD

The "Professeur René Wasserman" prize sponsored by the family Wasserman, founder of the group Eutectic-Castolin and Terolab Service Management SA, rewards either a Doctoral Thesis or Post-doctoral research, undertaken at the EPFL.

The purpose of the award, maximum 10'000.- CHF, is to distinguish innovative and high level research in the field of new materials. The applicant (scientist or member of a research team) should be less than 40 years old at the moment of the application.

GIANLUCA AMBROSETTI

ON THE INSULATOR-CONDUCTOR TRANSITION IN POLYMER NANOCOMPOSITES.

"For his original approach to the understanding and description of the electronic transport properties in polymer nanocomposites, and for the groundbreaking contribution to the general problem of the conductor-insulator transition in composite materials". Prof. Peter Ryser, Dr. Claudio Grimaldi.

“DUPONT DES MATÉRIAUX” AWARD

To mark the interest of DuPont de Nemours for the scientific research in the field of materials and the importance of material sciences at the EPFL, DuPont and the Institute of Materials (IMX) introduced the award "DUPONT DES MATÉRIAUX" award. The purpose of the award is to distinguish innovative and high level research in material sciences; research with a positive impact on the quality of life, health or the environment are privileged.
**EPFL DOCTORATE AWARDS**

The EPFL Doctorate Award was established in 1993 to distinguish the work performed during an outstanding doctoral thesis at the EPFL, and to encourage particularly qualified researchers. The award honours a candidate who performed a remarkable thesis as to its originality, the impact of the results (publication(s) in one or several international journals) and presentation of the work.

**APOTOLOVIC BOJANA**

For the development of an innovative class of polymer therapeutics containing biologically-active peptide linkers”. Prof. Harm-Anton Klok

**HYBRID POLYMER THERAPEUTICS INCORPORATING BIORESPONSIVE, COILED COIL PEPTIDE LINKERS.**

"For establishing how the capacity of self-organized wireless networks scales with their population, and finding new communication schemes that approach this capacity." Prof. Emre Telatar, Dr. Olivier Lévêque

**FUNDAMENTAL LIMITS AND OPTIMAL OPERATION IN LARGE WIRELESS NETWORKS.**

**YODER BRUCE**

"For his pioneering Ph.D. thesis work on gas/surface reaction dynamics using laser-aligned and quantum-state-selected molecules to uncover the stereochemistry of methane chemisorption.” Prof. Rainer Beck

**STERIC EFFECTS IN THE CHEMISORPTION OF VIBRATIONALLY EXCITED METHANE ON NICKEL.**

**ÖZGÜR AYDIN AYFER**

The "ABB (Asea Brown Boveri)" award rewards an innovative and high level research. Two awards are given each year, one at the EPFL and another at the ETHZ. The amount of the award is variable, with a maximum of CHF 10'000.-.
MOSADDEGI SEYED ABBAS

PHASE-RESOLVED IMAGING OF EXCITON POLARITONS.

“Gael Nardin has performed very delicate spectroscopy experiments on new particles, called polaritons. He has, very particularly, been able to visualize, for the first time in a very direct way, the creation of quantized vortices in the wake of an obstacle placed in a superfluid.” Prof. Benoît Deveaud-Plédran

ELECTROMAGNETIC ENVIRONMENT ASSOCIATED WITH LIGHTNING STRIKES TO TALL STRIKE OBJECTS.

“For outstanding contributions to the characterization of lightning electromagnetic fields and their interaction with tall structures.” Prof. Farhad Rachidi

“FONDATION DIMITRIS N. CHORAFAS” AWARDS

The purpose of the EPFL Dimitris N. Chorafas Foundation award is to distinguish innovative and high level research in the field of advanced data processing technology, life sciences and/or sustainability.

GAËL NARDIN

NEURAL MECHANISMS OF THE EMBODIED SELF - MERGING VIRTUAL REALITY AND ELECTRICAL NEUROIMAGING.

“Dr Tadi is an electronic engineer whose scientific work spans the fields of cognitive science, brain imaging, engineering, and virtual reality. In his work he made ground-breaking insights concerning online body processing and self-consciousness, as well as their brain mechanisms in temporo-parietal and frontal cortex.” Prof. Olaf Blanke

TADI TEJ
FONDATION LATSIS INTERNATIONALE AWARD

The purpose of the "Fondation Latsis Internationale" award is to distinguish a scientific work of particular excellence from all EPFL research areas.

ABBE EMMANUEL

"For pioneering research allowing to construct efficient methods of multi-user communication and data compression based on the phenomenon of polarization.” Prof. Emre Telatar.

SIVULA KEVIN

ENABLING MATERIALS FOR A NEW PARADIGM IN SOLAR ENERGY CONVERSION.

“The award is presented to Dr. Kevin Sivula for his outstanding research on the use of mesoscopic oxides for the direct generation of hydrogen from water by sunlight.” Prof. Michaël Grätzel

ZENO KARL SCHINDLER/EPFL AWARD

The purpose of the "Zeno Karl Schindler/EPFL " Prize is to distinguish a postdoctoral work (high level research project and publications) of particular excellence performed at EPFL, in the field of environmental sciences and/or sustainability.

FOR FURTHER INFORMATION PLEASE VISIT HTTP://COMMISSION-RECHERCHE.EPFL.CH/AWARDS2011
In order to promote research performed at EPFL – one of the missions of the Research Commission - the Researcher Portail (http://recherche.epfl.ch/page-36159-en.html) has been created and is daily updated with research papers, awards, cover pages etc. of EPFL researchers. Furthermore, collaborators receive a monthly News Letter: Research Highlights@epfl containing important information on ongoing research at EPFL.
# Members of the Research Commission

## CHAIR

**BENOÎT DEVEAUD-PLÉDRAN**  
Laboratory of Quantum Optoelectronics

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## SB – FACULTÉ DES SCIENCES DE BASE

**VASSILY HATZIMANIKATIS**  
Laboratoire de biotechnologie computationnelle des systèmes

**STEPHAN MORGENTHALER**  
Chaîre de statistique appliquée (until August 31, 2011)

**JOACHIM KRIEGER**  
Chair of Partial Differential Equations (from September 1, 2011)

**ALFREDO PASQUARELLO**  
Chair of Atomic Scale Simulation (until August 31, 2011)

**PAOLO DE LOS RIOS**  
Laboratoire de biophysique statistique (from September 1, 2011)

**HENRIK RONNOW**  
Laboratoire de magnétisme quantique

**KAY SEVERIN**  
Laboratoire de chimie supramoléculaire

**KATHRYN HESS BELLWALD**  
Institut de géométrie, algèbre et topologie

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## ENAC – FACULTÉ DE L’ENVIRONNEMENT NATUREL, ARCHITECTURAL ET CONSTRUITE

**LALOUI LYESSE**  
Soil Mechanics Laboratory

**LUCA ORTELLI**  
Construction and Conservation Laboratory (until August 31, 2011)

**DAVID ANDREW BARRY**  
Ecological Engineering Laboratory (until August 31, 2011)

**DIETER DIETZ**  
Design Studio on the Conception of Space (from September 1, 2011)

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## STI – FACULTÉ DES SCIENCES ET TECHNIQUES DE L’INGÉNIEUR

**JOHN BOTIS**  
Laboratory of Applied Mechanics and Reliability Analysis (until August 31, 2011)

**MICHAËL UNSER**  
Laboratoire de l’imagerie biomédicale (until August 31, 2011)

**HARM-ANTON KLOK**  
Laboratoire des polymères

**HANS PETER HERZIG**  
Optics and Photonics Technology Laboratory (from September 1, 2011)

**AUDE BILLARD**  
Learning algorithms and systems Laboratory (from September 1, 2011)

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## SV – FACULTÉ DES SCIENCES DE LA VIE

**JEFFREY HUBBELL**  
Laboratoire de médecine régénérative et de pharmacobiologie

**CARMEN SANDI**  
Laboratoire de génétique comportementale

**JOHN MCKINNEY**  
Institut de recherche en infectiologie (until October 31, 2011)

**YANN BARRANDON**  
Stem Cell Dynamics Laboratory (from November 1, 2011)

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## IC – FACULTÉ INFORMATIQUE ET COMMUNICATIONS

**JEFFREY HUANG**  
Laboratoire de design et media

**MARTIN ODERSKY**  
Laboratoire de méthodes de programmation 1
Members of the Research Commission

[ANNUAL REPORT 2011]

CDH – COLLEGE DES HUMANITES

PANESE FRANCESCO
Director CDH

VPAA – VICE-PRESIDENCE POUR LES AFFAIRES ACADÉMIQUES

KUKHWAN MIEUSSET
Research Delegate, invited member

CAROLINE VANDEVYVER
Scientific Assistant

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FOR FURTHER INFORMATION PLEASE VISIT

HTTP://COMMISSION-RECHERCHE.EPFL.CH/

MEETINGS

1. Tuesday 25 January 2011
   Presentation by Philippe Gillet – state of the art of Rak, Centers, Projects ...
2. Tuesday 15 February 2011
   Discussion Strategy of the School
3. Tuesday 15 March 2011
   Symposium LATSIS 2012 and selection of the Chorafas awards
4. Tuesday 19 April 2011
   Applications for prospective researcher grants: first assessment - INTERVIEW SESSION
5. Tuesday 3 May 2011
   Applications for prospective researcher grants: final assessment and decisions
6. Tuesday 17 May 2011
   Award of the Fondation Latsis Internationale
7. Tuesday 7 June 2011
   EPFL Research Day 2011
8. Tuesday 14 June 2011
   Award ZKS-Schindler 2011
9. Saturday 15 October 2011
   “Journée Magistale” – Research Awards Distribution
10. Tuesday 1 November 2011
    Applications for prospective researcher grants: interview session
11. Tuesday 22 November 2011
    Applications for prospective researcher grants: final assessment and decisions, in the presence of Dr. Maillard Noélie of the SNF
12. Tuesday 6 December 2011
    Ethical issue – research proposals with a military purpose