

# ENIGMA ITN Meeting n°4

30/06/2018, Cargèse  
Supervisory Board





# 1. Management structure



## Management structure: the Supervisory Board

### Composition:

- Chairman: Philippe Davy, CNRS (coordinator)
  
- Members :One representative of each beneficiary
  
- The ESRs, shall send two representatives, elected yearly, to the Supervisory Board. The elected representative will attend the meetings without voting rights.
  
- The Partner Organisations (PO), being involved in the Project's training programme (i.e offering secondment opportunities for the ESRs

1. CNRS Rennes	<b>Philippe Davy</b>
2. CSIC Barcelona	<b>Jesus Carrera</b>
3. Forschungszentrum Jülich, Agrosphere Institute IBG-3	<b>Sander Huisman</b>
4. Helmholtz Centre for Environmental Research	<b>Jan Fleckenstein</b>
5. University of Liège	<b>Frédéric Nguyen</b>
6. University of Tübingen	<b>Olaf A.Cirpka</b>
7. University of Copenhagen	<b>Majken Looms Zibar</b>
8. University of Lausanne	<b>Niklas Linde</b>
9. Neuchâtel University	<b>Philipp Brunner</b>
10. μQuans	<b>Bruno Desruelle</b>
11. Itasca Consultants S.A.S.	<b>Caroline Darcel</b>
SILIXA	<b>Athena Chalari</b>
Stanford University	<b>Jef Caers</b>
Oregon University	<b>John Selker</b>
University of Montpellier	<b>Cédric Champollion</b>
BRGM	<b>J-Christophe Maréchal</b>
SKB	<b>Jan-Olof Selroos</b>
AQUALE	<b>Guillaume De Schepper</b>
University of Mons	<b>Pascal Goderniaux</b>
ACA	<b>Mireia Iglesias Carrera</b>

## Current Subcommittees and Advisory Board

Committee/Board	Task	Meetings frequency
Training and Tutoring Committee TTC <u>Resp : F.Nguyen</u>	<ul style="list-style-type: none"> <li>• Implementation of the training programme.</li> <li>• Supervision of a relevant Personal Career Development Plan (PCDP) to each young researcher</li> </ul>	every year and regular videos conferences
Experimental Infrastructure Committee EIC <u>Resp: L.Longuevergne/T.Le Borgne</u>	<ul style="list-style-type: none"> <li>• Management of the link between the ESR projects and the long term experimental sites where the new technologies and methods will be tested,</li> <li>• Checks that the produced data meet the highest quality standard, and are stored and made available to the scientific community in reasonable time.</li> </ul>	every six months to discuss the planning of the field tests and identify opportunities for experimental synergies between ESR projects, and with on-going activities on the experimental sites
Advisory Board (AB)	<ul style="list-style-type: none"> <li>• Assessment of the quality of research, measurement and management procedures</li> <li>• External advices on all aspects of the project.</li> </ul>	every year

# Supervisory Board : ESRs representatives for 2018 ?

- In Liège 2017 : Veronika Rieckh & Alejandro Fernandez Visentini  
=> Again in 2018 !



## 2. Last Workshops & mid term meetings:

- Dates
- Terms

Dates	Main Training Events & Conferences	Location	Month	Organization (main)
<b>February 2020</b>	Barcelona 5 <sup>th</sup> Workshop on life time skills <b>Feb 04 – 07<sup>th</sup></b>	Barcelona	Supposed in 24. => M26	CSIC & ULG
<b>February 2020</b>	<b>Mid Term review meeting</b> <b>Feb 07- 08th</b>	Barcelona	M26	CSIC, ULG and CNRS



# Enigma Meetings

Dates	Enigma meeting n°	Title & concerned event if relevant	Location	Month	Organization (principal)
2019	5	5 <sup>th</sup> Workshop on life time skills + <u>Mid –term meeting with all beneficiaries, partner organisations and the Agency</u>	Barcelona	~24/26 (2019)	CSIC & ULG
2019	6	<i>Network meeting Leipzig ?</i>	<i>Leipzig ?</i>	<i>October 2019</i>	
2020	7	<u>Final conference Copenhagen</u> : innovative methods for imaging heterogeneous aquifers: bridging the worlds of subsurface hydraulics, geophysics, geochemistry and microbiology	Copenhagen	36	FZJ, UFZ, CNRS, UCPH
2020	8	Network meeting	?	42	?
2020	9	Network meeting – End of the project	?	48	?



- In Barcelona in February 2020 just after the workshop 5
- We will need to gather scientific reports (state of the art) & financial elements for Mid Term reports : more details BEFORE month 24 (December 2019), please let already know your administrative contacts to prepare accounts statements, evidences copies...



### 3. General information – next steps:

- Progress monitoring and evaluation of individual projects
- **Ethics**

## PCDP :

- **will be updated on a yearly basis**
- will be summarised with objectives, milestones and deliverables.
- If there are unexpected challenges that delay the deliverables, the programme will be modified accordingly.

## Progress monitoring

- Each fellow's individual research progress will be discussed in frequent 1-to-1 meetings with the local supervisor. Three publications in international peer reviewed journals are aimed for
- At network scale, a continuous monitoring of the training progress of the fellows will be ensured through presentation of their work at each ENIGMA meetings, as well **as progress reports and training needs assessment plans.**

## Formal presentation by ESRs to the supervision committee:

- in the middle of their project (month 24 => informally month 18 at Summer School & month 26 at MTR).
- supervision committee : the members of the training and tutoring committee and up to three external members from the Advisory Board

## Following the EC requirement :

*In relation to the field experimental work, the applicant must ensure that appropriate health and safety procedures conforming to relevant local/national guidelines/legislation are followed*

*PO's Question : Do you give them a manual or you have foreseen dedicated trainings (also in the beneficiaries premises) to each fellow involved in the experiments in the field?*

The **prior training of each fellow regarding the experiments in the field is under the responsibility of each beneficiary**. Besides, as the fellows will be working with experimented researchers, engineers and technicians to prepare the field campaigns, they will receive hands-on training and support before and during the field experiments.

*PO's Question : How do the fellows know which local and/or national legislation apply?*

The fellows will be working with experimented researchers, engineers and technicians to prepare the field campaigns. Therefore, they will work with people already aware of the local and/or national legislation. Moreover, **each beneficiary will make sure that the fellow under its responsibility is made aware of local and/or national legislation**.

## Keep evidences !

## 4. Secondments

### EC rules!

**You must do the new planned secondments (will be in the amendment of the Grant Agreement) !**

#### **Reminder of the only possibly necessary modifications:**

- Equivalent amount of time as originally foreseen, even in different hosting institutions within the network
- Minimum time > 1 month
- Else : visits (max 1 month)

**The modifications will have to be scientifically justified and we must previously discuss them with the PO:**  
**=> Please send the new secondments plans to the Coordinator before end of the Summer School\_!**

We need your secondments months at the end of the Cargese Summer School !!

*-> to submit in an amendment at the EU*

ESR	Host beneficiary (Supervisor)	Secondments places/ institution (originally)	No modifications needed (only shifts of dates)	Exact dates
ESR1	CSIC Bcelona	CNRS, UNIL, ACA	<p>ESR1 Kevin De Vriendt "Mixing and chemical reaction hotspots in saline-freshwater mixing zones"</p> <p><i>Secondments initially planned</i> -5 months CNRS -4 months UNIL -2 months ACA</p> <p>No changes required, to fit the 10 months limit, there would be only 1 month in ACA</p>	
ESR2	Leipzig	UNINE and UCPH	<p>ESR2 : Guilherme Nogueira "Flow and reactions in stream-riparian zone systems".</p> <p>No changes required</p> <p>Neuchatel: Sep-Nov 2018 (3 months) &amp; Copenhagen: Jul-Sep 2019 (3 months)</p>	<p>- UNINE Neuchatel, Sep-Nov 2018, geostatistical modelling / HGS training - UCPH, Jul-Sep 2019, GW-SW exchange with focus on NO3</p>
ESR3	UNINE Neuchâtel	UFZ & GEOTH	<p>ESR3 : Álvaro Pardo-Álvarez PhD-thesis: "Closing the conceptual gap between the hyporheic zone and the river corridor"</p> <p><i>Secondments in the original proposal:</i></p> <ul style="list-style-type: none"> <li>4 months at UFZ Leipzig</li> <li>1 month at GEOTH</li> </ul> <p>No changes required UFZ Leipzig (from 19/03/2018 to 19/07/2018 - 4 months): training on openFOAM GEOTH (from 12/11/2018 to 14/12/2018 - 1 month): training in direct push-pull methods</p>	<p>- UFZ Leipzig (from 19/03/2018 to 19/07/2018 - 4 months): training on openFOAM GEOTH (from 12/11/2018 to 14/12/2018 - 1 month): training in direct push-pull methods</p>
ESR7	Copenhagen	Unine and UFZ	<p>ESR7 : Joel Tirado Conde Multi-scale thermal imaging of groundwater upwelling in stream valleys</p> <p>No changes required</p> <p>- Secondment at UFZ Leipzig with Jan Fleckenstein's group 3 months : January, February and March 2019 - Secondment at Université de Neuchâtel with Philip Brunner's group 3 months : September, October, November 2019</p>	<p>- Secondment at UFZ Leipzig with Jan Fleckenstein's group 3 months : January, February and March 2019 - Secondment at Université de Neuchâtel with Philip Brunner's group 3 months : September, October, November 2019</p>
ESR12	Jülich	CNRS	<p>ESR12 : Satoshi Izumoto Spectral induced polarization monitoring for in-situ quantification of biochemical reactions</p> <p>ESR12 will make two five-month secondments in CNRS Rennes according to the current plan. This is what was planned originally, so no changes are required.</p> <p>Estimated dates (may be shifted, depending on the laboratories possibilities) : Sept 2018-Jan 2019 &amp; Sept 2019 - Jan 2020</p>	

ESR	Host beneficiary (Supervisor)	Secondments places/institution (originally)	Status and improvement recommended	More precisions about the months by network
ESR4	Itasca	CNRS, UNIL, SKB	<p>ESR4 Justine Molron  <b>PhD-thesis:</b>"Flow and transport in fracture networks: reducing uncertainty of DFN models by conditioning to geology and geophysical data"</p> <p><i>Secondments initially planned :</i>            -CNRS 5 months            -UNIL 5 months            -SKB 2 months</p>	<p>ESR4 Justine Molron  <b>Precise months will be determined during June 2018</b></p> <p>- <u>SKB</u> : 1 week in October 2018 and one week in November 2018 in Sweden (Probably but the dates need to be confirmed due to the experiment in progress..). And there was 1 week in 2017</p> <p>- <u>UNIL</u>: 2 months in Lausanne after the campaign of November 2018 + 2 months in Lausanne next year (no dates yet)</p> <p>- <u>CNRS</u> : 4 months</p>
ESR5	CNRS	UNIL, SKB	<p>ESR5: Lara Blazevic  <b>PhD-thesis:</b>"Monitoring spatio-temporal water redistribution in the subsurface with seismic methods"</p> <p><i>Secondments initially planned</i>            -4 months at UNIL            -2 months at SKB</p>	<p>ESR5: Lara Blazevic</p> <p>'- <u>UNIL</u> Lausanne 6months            ( SKB Sweden only work visits)</p> <p><i>Precise months will be determined during June 2018</i></p>
ESR6	CNRS	CSIC, OSU, Silixa	<p>ESR6: Behzad Pouladi  <b>PhD-thesis:</b>"Active Fiber-Optic DTS methods to monitor subsurface flow dynamics"</p> <p><i>Secondments in the original proposal:</i>            - 6 months at CSIC            - 3 months at OSU            - 2 months at Silixa</p>	<p>ESR6: Behzad Pouladi</p> <p>'- <u>UNIL</u> : January to june 2019 : 4 to 6 months secondment in Lausanne            - <u>SILIXA</u> : summer or autumn 2019 : 2 months</p> <p><i>Precise months to determine during June 2018</i></p>
ESR8	Muquans	U.Montpellier(10), UCPH(2)	<p>ESR8 Anne-Karin Cooke  <b>PhD-thesis:</b>"Monitoring water storage changes with a new portable absolute quantum gravimeter"</p> <p><i>Secondments in the original proposal:</i></p> <ul style="list-style-type: none"> <li>• 10 months at UMontpellier</li> <li>• 2 months UCPH</li> </ul>	<p>ESR8 Anne-Karin Cooke</p> <p>28/08/2018 to 18/06/2018 + the remaining duration of the 10,7 months at UM (University of Montpellier)</p>



ESR	Host beneficiary (Supervisor)	Secondments places/institution (originally)	Status and improvement recommended	More precisions about the months by network
ESR9	UNIL-Lausanne	CNRS - CSIC	<p>ESR 9: Alejandro Fernandez.  <b>PhD-thesis:</b>" Geophysical signatures of spreading and mixing"</p> <p>Secondments in the original proposal:</p> <ul style="list-style-type: none"> <li>8 months at the University of Rennes 1.</li> <li>2 months at CSIC in Barcelona.</li> </ul>	<p>ESR 9: Alejandro Fernandez.</p> <ul style="list-style-type: none"> <li>4 months at the University of Rennes 1.</li> <li>4 months at CSIC.</li> </ul> <p><i>Precise months to determine during June 2018</i></p>
ESR10	FZJ Jülich	CNRS & UNIL	<p>ESR10 Haruzi, Peleg  <b>PhD-thesis:</b>"High resolution imaging of transport processes with GPR full-waveform inversion"</p> <p><i>The original plan : two months in Lausanne and two months in Rennes.</i></p>	<p>ESR10 Haruzi, Peleg</p> <p>4months either at CNRS or UNIL</p> <p><i>Precise months to determine during June 2018</i></p>
ESR11	UL- Liège	Hyderabad & Jülich	<p>ESR11 Richard Hoffmann  <b>PhD-thesis:</b>"Joint heat and solute tracer test inversion for imaging preferential pathways"</p> <p><i>Secondments in the original proposal:</i></p> <ul style="list-style-type: none"> <li>- 6 months at Hyderabad, India</li> <li>- 3 months at Jülich</li> </ul>	<p>ESR11 Richard Hoffmann</p> <ul style="list-style-type: none"> <li>- 6 months at Hyderabad, India with several flexible campaigns</li> <li>- 3 months at Jülich</li> </ul> <p><i>Precise months to determine during June 2018</i></p>
ESR13	UT Tübingen	UL & SHS (ex partner)	<p>ESR13 : Veronika Rieckh  <b>PhD-thesis:</b>"Fully coupled hydrogeophysical inversion of 3D tracer tomography using temporal moments and Ensemble Kalman Filtering"</p> <p><i>Secondments in the original proposal:</i></p> <ul style="list-style-type: none"> <li>• 3 months at ULG Liège</li> <li>• 2 months at SHS</li> </ul>	<p>ESR13 : Veronika Rieckh</p> <ul style="list-style-type: none"> <li>• 3 months at ULG Liège</li> <li>• 1 month at CSIC Barcelona</li> </ul> <p><i>Precise months to determine during June 2018</i></p>
ESR14	CSIC Bacerlona	UCPH & ACA	<p>ESR14 : Andrea Palacios  <b>PhD-thesis:</b>"Geologically constrained joint inversion of hydraulic, tracer and ERT data for process visualization"</p> <p><i>Secondments in the original proposal</i></p> <ul style="list-style-type: none"> <li>- 9 months at UCPH - 2 months at ACA</li> </ul>	<ul style="list-style-type: none"> <li>-Univ of Lausanne = October 2018 (one month), April 2019 (one month), October 2019 (one month)</li> <li>Univ of Copenhagen = November 2018 (one month), May 2019 (one month), April 2020 (one month)</li> <li>ACA = June - July 2020(2 months)</li> </ul>
ESR15	UL-Liège	CSIC & Aquale	<p>ESR15 Jorge Lopez Alvis  <b>PhD-thesis:</b>"Integration of dynamical hydrogeophysical data in a multiple-point geostatistical framework"</p> <p><i>Secondments in the original proposal:</i></p> <ul style="list-style-type: none"> <li>• 6 months at CSIC in Barcelona</li> <li>• 2 months Aquale</li> </ul>	<p>ESR15 Jorge Lopez Alvis</p> <ul style="list-style-type: none"> <li>• 6 months at CSIC in Barcelona</li> <li>• 2 months Aquale</li> </ul> <p>+ maybe 2 months at Ghent University</p> <p><i>Precise months to determine during June 2018</i></p>



Thank you for your attention !