ENIGMA ITN Meeting n°5

07/02/2019, Barcelona

Coordinator's report:

Training and Tutoring Committee 10'

I. Composition
II. Role
III. Training implementation in ENIGMA
IV. Deliverables & Milestones (see management meeting)

Training and Tutoring Committee composition

- Frédéric Nguyen (by default WP Training leader)
- Jan Fleckenstein (by default WP Training leader)
- Majken Looms Zibar(CPH)
- Caroline Darcel (ITASCA)
- Philip Brunner (UNINE)
- Maria Pool (CSIC)
- Olaf Cirpka (UT)
- Damien Jougnot (CNRS)
- Sander Huisman (FZJ)

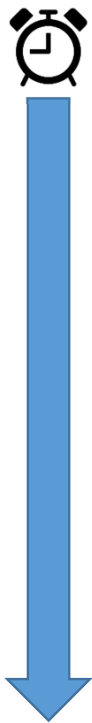# II. Roles

Training and Tutoring Committee role

1. Ensures a continuous monitoring of the fellow's progresses and steer the fellow's tasks plan **if required by ESR *(Early Stage Researchers)* supervisors, and Training and Tutoring Committee**

2. **Sets up and organizes network wide training events**, performs and summarizes training needs assessment

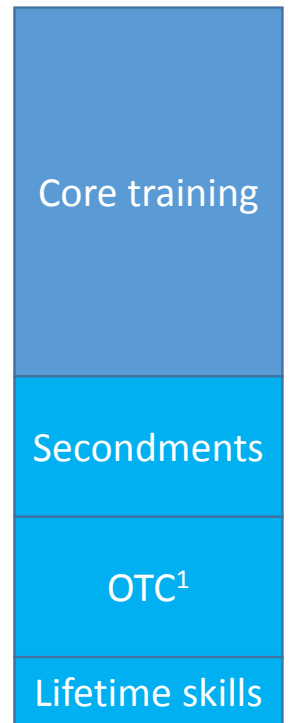3. Follows the **personal career development plan** for the trainees

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III.   Training implementation in ENIGMA

Progressive training

- **Core training**
  - In-situ imaging and modeling of complex media; understanding of subsurface flow and transport dynamics (Workshops, Summer School and phd courses)

- **Secondments**
  - Selected institutions/industry.

- **Lifetime skills and career plan**
  - ESRs career development.

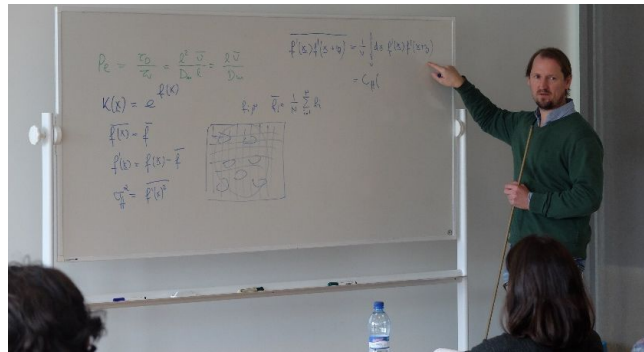**Contribution from the academic and non-academic sector**

| Core training |
| Secondments |
| OTC[1] |
| Lifetime skills |

[1] Optional training courses

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Core training: Progressive training from field to models

Field & methods

Theory and modeling

Sensing and modeling

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Workshops & Summer school content

Workshops

- WS1: Advanced subsurface characterization methods: theory and field practice (09 October to 13 October 2017, ULiege & FZJ)

- WS2: Multi-scale investigation of fractured media (16 October to 20 October 2017, CNRS Rennes)

- WS3: Predictive modeling and upscaling of flow and reactive transport in heterogeneous aquifers (06 February to 08 February, CSIC, UT & UNIL)

- WS4: Advanced inverse modeling and stochastic representations of heterogeneous porous and fractured media (12 February to 15 February, UNIL & UNINE)

- WS5: This week : lifetime skills

Summer school

- Sensing and modelling of flow and transport process dynamics in heterogeneous subsurface environments (25 June to 06 July 2018)

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Example of ESR15 Jorge

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Workshops

Summer school

Secondments (to come) :

- at UGent for Bayesian Evidential Learning
- at AQUALE for inter-sectoral reality check

Optional Training Courses

Sensitivity Analysis and Uncertainty Analysis workshop (UCL, Belgium- 6/11/2017)

Modelling GPR and using gprMax workshop (FZJ, Germany- 29/11/2017 and 12/01/2018)

Reconstructing real-system dynamics from time series records workshop (UCL, Belgium- 29/10/2018)

French language courses.

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Individual ESR students monitoring

- At network scale, **through presentation of their work at each ENIGMA meetings**;

- **Progress reports** included in the ENIGMA network reports (months 12, 24, 36, 42);

- **A formal presentation, during a poster session, by ESRs to** external members from the **Advisory Board**, was organized during the Cargèse Summer School

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Personal Training and Career Development Plan (PTCDP)

- **Why** ? : Monitoring ESR progress and professional development

- **Who** ? : The local supervisor and mentor will prepare a PTCDP (Career Development Plan) in coordination with training and tutoring committee

- **When** ? : The PTCDP plan will be updated on a yearly basis and summarized with objectives, milestones and deliverables (M12[1], M24[1], M40[2]).

[1] Training Needs Assessment Plan (UCPH)
[2] Career Development Plan (ULg)

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