# Information meeting 2020 Doctoral school IAEM Lorraine

# Didier Maquin

Professor at Université de Lorraine

Director of the Doctoral School IAEM Lorraine







### |Who am I ?



Didier Maquin

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• ENSEM bureau 116 jaune

More details?

Personal Web pages: http://www.cran.univ-lorraine.fr/didier.maquin

Laboratory web site: http://www.cran.univ-lorraine.fr

### Doctoral schools - Université de Lorraine

- BioSE (Biologie, santé et environnement)
- 2 C2MP (Chimie, mécanique, matériaux, physique)
- 3 HN-FB (Humanités nouvelles Fernand Braudel)
- IAEM (Informatique, automatique, électronique-électrotechnique, mathématiques)
- SIMPPÉ (Science et ingénierie des molécules, des procédés, des produits et de l'énergie)
- **6** SIReNa (Science et ingénierie des ressources naturelles)
- **▼** SJPEG (Sciences juridiques, politiques économiques et de gestion)
- **8** SLTC (Sociétés, langages, temps, connaissances)

 $\approx$  2000 PhD students

#### Disciplines

Computer Science, Automatic Control, Electrical Engineering, Mathematics and Architectural Sciences

#### ► Abutment

11 research laboratories or research teams co-accreditation with CentraleSupélec – association with INRIA Grand-Est around 560 academics or researchers of which 300 HdR (research directors)

- Headcount (January 2020)
   338 registered PhD students
   (1Y: 79; 2Y: 101; 3Y: 80; 4Y: 64; 5Y: 13; 6Y: 1)
- ► Average annual flow of 75-80 PhD diplomas (6 mentions) 82 last year
  - computer science (39.5 %);
  - automatic control, signal and image processing (35.5 %);
  - mathematics (10 %);
  - electrical engineering (7 %);
  - electronic systems (6 %);
  - architectural sciences (2 %).

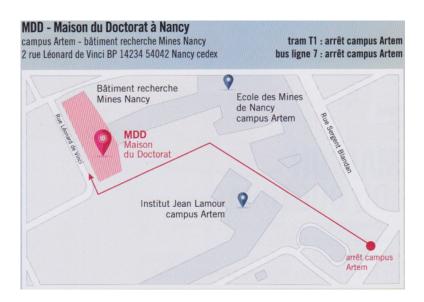
### Research labs or research teams of IAEM Doctoral School

- LORIA (CNRS INRIA UL) UMR 7503 (97)
- IECL (CNRS INRIA UL) UMR 7502 (83)
- CRAN (CNRS UL) UMR 7039 (55)
- LGIPM (UL) EA 3096 (14)
- GREEN (UL) EA 4366 (13)
- LCOMS (UL) EA 7306 (13)
- IJL (UMR CNRS UL) UMR 7198 Mesures et Architectures Electroniques team (9)
- UMI GeorgiaTech (CNRS GeorgiaTech) UMI 2958 (3)
- IADI (UL INSERM) U947 (3)
- MAP (CNRS MCC) UMR 3495 CRAI (EAN Nancy) (2)
- LCFC (UL Arts et Métiers) EA 4495 (1)

Total HdR 293









#### Doctoral school tasks

Decree of May 25, 2016 related to doctoral education, article 2

"Under the responsibility of the accredited institutions, doctoral schools or doctoral colleges organise the training of doctoral students and prepare them for their professional activity at the end of the doctoral training."

- ▶ Implement an admission policy for PhD students;
- Organize scientific exchanges between PhD students and with the scientific community;
- Ensure that each doctoral student receives training in research ethics and scientific integrity;
- Ensure a quality procedure to training (setting up individual monitoring committees for the PhD student);
- Define and implement support measures for pursuing the professional activity;
- Contribute to European and international openings;
- ► Formulate an opinion on requests for the attachment of research units or research teams to the doctoral school

### Doctoral school organization

- ► A director: Didier Maquin (since September 2017)
- ► Executive committee 9 membres (current management)
- Four mention commissions
  - Informatique (Laurent Vigneron & Pierrick Gaudry)
  - Automatique (Eric Levrat & Nathalie Sauer)
  - Electronique Electrotechnique (Amar Rouane & Jean Lévêque)
  - Mathématiques (Frédéric Robert & Victor Nistor)
- ► Council 20 membres (the wise men or women ! –)
- Three support secretaries
  - Educational administrator: Sabrina Ferry
  - School administrator (Nancy): Souad Boutaguermouchet
  - School administrator (Metz): Stéphane Lebreton

# Doctoral School Organization – The Council

12 members representing the institutions among which:

- the 8 mention commission responsibles
- Doctoral school partner representatives
  - Konrad Szafnicki (Head of the Metz CentraleSupelec Campus)
  - Bruno Levy (Head of the INRIA Grand Est Research Center)
- 2 administrative staff representatives
  - Sabrina Ferry (Educational administrator)
  - Souad Boutaguermouchet (School administrator)

4 PhD student representatives (titular / alternate)

- Sara Himmiche / Hang Wan (Automatic control)
- Dominique Giraud / Abderrahmane Djaouti (Electrical Engineering)
- ► Galatée Hemery / Charles Duménil (Computer sciences)
- Simon Roby / Vacant position (Mathematics)

and 4 external personalities

- Dominique Daloz (Head of the new doctoral school C2MP: Chimie, Mécanique, Matériaux, Physique)
- Rezak Ayad (Head of the Doctoral School SNI: Sciences du Numérique et de l'Ingénieur de l'Université de Reims Champagne-Ardenne)
- Pierre-Jean Krauth (ArcelorMittal Head of Measurement and Control Cluster)
- Benoît Marchand (CEA Tech FFLOR platform: Future of Factory Lorraine)

#### Main tasks of the executive committee

- ► Examine candidates' admission files and registration renewal beyond the fourth year, after examination by the mention commisions
- Validate the jury proposal made by your thesis director and provide a recourse function in case of difficulty in the management of this jury
- Define the training courses to set up
- Advise and assist the Director in what concerns animation, communication, ...

### The mention commissions

- ▶ Commission perimeter: determined by the attachment of each laboratory
- ► Commission members: holders of a HdR ("Habilitation à diriger des recherches")
- Operation: general meeting and representative board
- Current decisions: representative board ou general meeting depending of the internal arrangements
- ▶ Role
  - Instruction of admission to doctoral training
  - Follow-up of the training of PhD students (progress of the thesis, individual assessment of validated courses in terms of credits, renewal of registration in 2nd and 3rd year, exceptional registrations in 4th or 5th year)
  - Scientific evaluation of thesis work (choice of reviewers, dissertation committee, examination of thesis reports, opinion on the defense)

# College of Doctoral Schools

The College of Doctoral Schools (in french *Collège Lorrain des Ecoles Doctorales: CLED*) is a coordination structure of the 8 Doctoral Schools of the University of Lorraine.

Its missions consist of proposing to the Scientific Council:

- a policy on doctoral training;
- to strengthen the visibility, attractiveness and transversal positioning of the doctorate;
- to improve the organisation and management of doctoral training.

Under the chairmanship of Clotilde Boulanger, Deputy Vice-President for Doctoral Strategy, the CLED Board is composed of the directors of doctoral schools, doctoral students (one per school council and one for the Scientific Council) and two representatives of the Research and Development Department.

① Establishment of the individual monitoring committees (since 2012) now included in the decree of May 25, 2016 (Article 13)

#### ► Composition

- At least two persons (members of the Université de Lorraine or external to the Université de Lorraine – without any link with the thesis supervision, proposal: 1 "scientific" evaluator + 1 "HR" human resources evaluator (e.g. team leader in a research lab)
- the thesis supervisor and co-supervisors cannot be involved

#### Mission

Audition the candidate (face-to-face or video-conf) and prepare an annual report

- 1 report at  $t_0 + 12$  month, to evaluate the overall feasibility of the thesis subject and to propose a possible thematic re-orientation (optional)
- 1 report before each administrative registration from the third, to assess the progress of the scientific work and to estimate the time required to complete the PhD defense (mandatory)

#### 1 Individual monitoring committee

The College of Doctoral Schools has very recently adopted a common text for all the Doctoral Schools.

- The composition of your individual monitoring committee must be declared using you individual account on ADUM at late six month after your first registration. → for all of you before June 2020.
- ▶ The educational calendar is now more strict. Whatever the date of your first enrollment in the PhD cycle, the deadline for your re-enrollment for the next university year 2020-2021 is fixed to September 30, 2020.
- ▶ Be careful to obtain the report from your individual monitoring committee before that date. Remind your thesis supervisor!
- Advice : Convene your committee in June or early July.

2 Individual Training Agreement (article 12 of the decree)

#### Article 1: The PhD student

Identity (surname, name, date of birth, email, address, n° INE)

#### Article 2: The doctoral project

Doctoral school, mention, subject, research team, thesis supervisor

#### Article 3: Running conditions of the doctoral project

Working time, remuneration, type of contract

Provisional timetable of the research project (revisable)

Modalities of supervision and environment (number of meetings, regular seminars)

Laboratory part (pre-filled)

Doctoral school part (pre-filled)

Université de Lorraine part (pre-filled)

#### 2 Individual Training Agreement

#### Article 4: Professional project of the PhD student

Description and justification of the choice

#### Article 5: Training of the PhD student

Formalization of the individual plan

#### Article 6: Promotion of the research works

#### Confidentiality

Promotion objectives

#### Article 7: Description of the thesis in preparation

Title, abstract, key words (french and english)

Signatures of the Phd student and his thesis supervisor

# PhD student duties - Training

- ► The College of the Doctoral Schools has been working for a year to standardize the practices of the various doctoral schools (common scheme for all the doctoral schools).
- ▶ The main objective is to comply with the provisions of the decree, to align with the practice of other "major" universities and to offer all the necessary tools to PhD students to carry out their work and prepare their professional future
- ► The new system applies to PhD students enrolled in their first year in 2018-2019 (it's your case!)
- ► A credit system has been adopted and the trainings have been gathered in three groups
  - Scientific valorization
  - Thesis support
  - Post-thesis preparation
- ▶ 30 credits will be necessary to be authorized to defend his thesis

# PhD student duties - Training

#### LA FORMATION DOCTORALE A L'UNIVERSITE DE LORRAINE

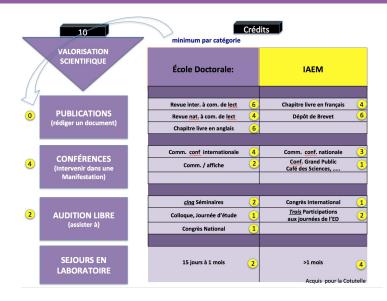
#### LA THÈSE

Travail personnel aboutissant à la rédaction d'une thèse, accompagné par des encadrants ╬

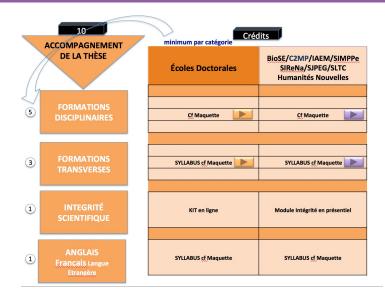
#### UN PARCOURS de FORMATION Validé par l'obtention de 30 crédits parmi les items suivants : **ACCOMPAGNEMENT** VALORISATION **PREPARATION A DE LA THÈSE SCIENTIFIQUE** L'APRES-THESE (10 crédits minimum) (10 crédits minimum) (5 crédits minimum) **Publications** Innovation, Entreprise Médiation scientifique Conférences Possibilité de parcours pédagogiques et préparation Séjours en Entreprise Auditions libres ou Collectivité Séiours en Responsabilités laboratoire collectives

+ 5 crédits flottants (fonction de l'ED de rattachement)

### PhD student duties - Scientific valorization



# PhD student duties - Thesis support



# PhD student duties - Thesis support

- ▶ Disciplinary trainings: 2 modules of about 20h each  $(2 \times 2.5 \text{ credits})$
- ▶ Transversal trainings: each module has its own number of credits

#### Internal training offer:

http://www.adum.fr/as/ed/lorraine/formations.pl?site=lorraine

- ► Fi4 305B Culture of scientific integrity/Culture de l'intégrité scientifique (Mandatory: May 25, 2016 decree (article 3.3) → MOOC)
- For foreign speaker students: French as foreign language module(s)
- ► For french speaker students: The presentation of an English language level certificate is required to validate the credits
- ► For PhD students funded in whole or in part by the Grand Est Region, the participation to "Doctoriales" is mandatory

### PhD student duties – Thesis support

# FORMATIONS TRANSVERSES

(3 crédits minimum)

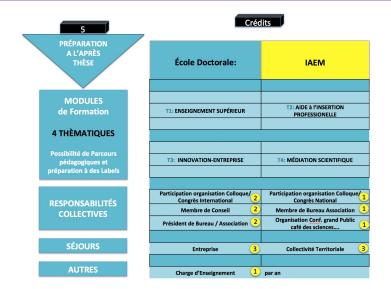
	THÈME DOMPTEZ LA DOC		THÈME COMMUNICATION
1	Trouver et organiser sa documentation	2	Formation à la communication orale et corporelle en milieu professionnel (Nancy)
1	Rédiger, valoriser et publier son travail de recherche	2	Développer ses capacités à communiquer et à manager
	THÈME HYGIÈNE ET SECURITÉ	1/2	Outils numériques pour réaliser des présentations
1/2	Sauveteur Secouriste du Travail (SST)	1	Maîtriser les situations interculturelles : les comprendre, gérer les interactions au sein d'une équipe, prendre conscience des présupposés scientifiques de sa culture
1/2	Formation à la culture de prévention		THÈME PROJETS
	THÈME PROJETS	1	Montage de projets Européens
1	Découverte des propriétés intellectuelles (Fi4 235)	2) à 4	Gestion de projet (MOOC) 18 à 36h (parcours classique ou avancé).
1	Droit et numérique		

Offre à consolider dans les 6 mois

# PhD student duties – Thesis support



### PhD student duties - Post-thesis preparation



### PhD student duties

- This new system is rather complicated!
- ► The credits allocated to modules proposed by the internal (UL) training offer are fixed and are the same for all doctoral schools
- ► For the other modules, the doctoral school remains in charge of the allocation of credits

Don't panic and don't be afraid

- ► This new system requires a running-in period and an evaluation
- ► The main objective of this reform is clearly not to force you to follow (too) many training modules but to offer you what is necessary for the accomplishment of your thesis work and to force you to think about the after-thesis
- ► Credits will be allocated for mandatory actions (e.g. your participation today to this meeting)

### PhD student duties – APIL

#### Annual PhD students conference IAEM Lorraine

In general, a half day in October. PhD students beginning their 3rd year are asked to prepare a poster describing their research work. These posters are submitted through a conference management system.

Use of EasyChair (free version)

Last year 58 posters were submitted

Each poster is "rated" by two reviewers of the program committee

Participation in this event will result in the awarding of credits

### Some advices

If you are facing any difficulty of any kind (personal or professional) or if you are in conflict with your coaching many people can probably help you:

- First, talk to your supervisor, your research team/department responsible, your laboratory director
- ➤ Second, get in touch with the persons in charge of the mention commissions, or with your elected PhD student representatives on the board of the doctoral school
- Finally, get in touch with me via Sabrina Ferry.

Do not stay inactive and do not let a situation get worse (especially if it's a tense relationship with your supervisor)

Keep your ADUM profile up-to-date (May 25, 2016 decree (article 15))

- ▶ Don't forget to enter your @univ-lorraine.fr email address in your profile
- Regularly update your scientific production
- ▶ Upload your training and professional module certificates
- Upload the reports of your monitoring committee

### Some advices

Regularly consult the different web sites

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http://doctorat.univ-lorraine.fr/fr
http://www.adum.fr/as/ed/lorraine/formations.pl?site=lorraine
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Prepare your after-thesis - think about your future

DocPro: The professional profile of PhD-holders

http://www.mydocpro.org/en

Maintain your (professional) network (during and after your PhD)

https://www.docteurs-spi.org/

Join the IAEM Doctoral School LinkedIn network

https://www.linkedin.com/in/doctoral-school-iaem-lorraine-29a35010b/

