

Chemistry Teachers' Training in the Fédération Wallonie-Bruxelles

Limerick Institute of Technology
29th of November 2013

Some Geopolitics...

- ▶ **3 regions** (Brussels, Flanders, Wallonia)
- ▶ **3 linguistic communities** (Flemish, French, German)



Two courses of study

1. Initial training

	Degree	Years	Institutions	Audience
Régendat (AESI)	Bachelor	3	Colleges	12-15
Agrégation (AESS)	Master	5/6	Universities	15-18

1.1 Lower secondary school teachers

► **Current organisation**

- Open to all (no admission exam)
- Focussed on pedagogic content



1.1 Lower secondary school teachers

▶ **Curriculum**

- Common courses to all the sections
 - Related to education: educational practices, psychology, sociology, group management, ethics, French language...
- Specific courses (science section)
 - Chemistry and Didactics + biology and physics
- Practical activities
 - Lesson simulations, internships
- Final dissertation

1.1 Lower secondary school teachers

► **Note**

Chemistry is taught **from the third year** (14-15) of secondary school

➡ Less credits in chemistry than in other sciences

1.2 Upper secondary school teachers

▶ **Current organisation**

- Focussed on scientific content
- Master didactic orientation (5 years)
- Other master (or equivalent) + 30 credits (6 years)

Université
de Liège



UCL

Université catholique de Louvain

1.2 Upper secondary school teachers

▶ **Curriculum**

- Bachelor's degree in chemical sciences (3 years)
 - General chemistry, various disciplines of chemistry (physical chemistry, organic chemistry, environmental chemistry...), biology, mathematics...
- Master with a didactic orientation (2 years)
 - Disciplines of chemistry, chemistry didactics (+ biology)
 - Common courses: pedagogy, sociology, interdisciplinarity, professional ethics...
- Practical activities
 - Creating interdisciplinary lesson sequences, seminars, conferences, observation periods, internships
- Final dissertation

1.3 Education reform

Scheduled for 2014

One structure (Academy of research and Education)

Five poles (Brussels, Liège, Louvain, Mons, Namur)


Harmonisation of teacher training

Stricter continuing training




2. Continuing training

2.1 Networks

- ▶ Community
 - ▶ Provinces and municipalities
 - ▶ Catholic education
 - ▶ Private education
- 

2.2 Possibilities

- ▶ Training: 3 compulsory days
 - ▶ Support from educational advisors
 - ▶ Working groups
 - ▶ Coaching sessions
 - ▶ Advanced Technologies Centres
 - ▶ Internet
- 

2.3 Initiatives for science teachers

- ▶ **Two-day training session:** optimising the supervision future teachers' practicum
- ▶ **Yearly conference** for (future and current) science teachers on various themes
- ▶ **Website** of "Groupe Transition" for basic chemistry

<http://www.grptrans.ulg.ac.be/>



Acknowledgements

- ▶ Divna Brajkovic (HELMo)
 - ▶ Myriam De Kesel (UCL)
 - ▶ Bernard Leyh (ULg)
 - ▶ Nathalie Matthys (ENCBW-Vinci)
 - ▶ Jean-Luc Pieczynski (SeGEC)
 - ▶ Bernard Tinant (UCL)

 - ▶ Zlata Selak (INFOREF)
- 

Thank you for your attention!