

## Jad WAKIM

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Nationality: Lebanese  
Age : 28 years  
Social Status : Single

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### **Doctor of Philosophy Degree (PhD)** in Geotechnical and Civil Engineering

#### **EDUCATIONAL PROFILE**

- 2002-2005** PhD in Geotechnical Engineering, *Ecole des Mines de Paris, France*. Defended in December 2005 (Mention very honourable)  
« Influence of water and aqueous solutions on the mechanical behaviour of shale »
- Jury members:** Jack-Pierre PIGUET (ANDRA), Isam SHAHROUR (EUDIL), Alain MILLARD (CEA), Amel REJEB (IRSN), Michel TIJANI (ENSMP), Laurent DE WINDT (ENSMP), Faouzi HADJ-HASSEN (ENSMP)
- 2001-2002** Master's Degree (MS) in Soils and Rock Mechanics, *Ecole Centrale de Paris, France* (Mention good)
- 1995-2000** Bachelor of Science (BS) in Civil Engineering, Lebanese University, Faculty of Engineering (Mention very good)

#### **PROFESSIONAL EXPERIENCE**

- 2005** **Research Engineer**, *Ecole des Mines de Paris, France, Centre de Géotechnique et d'Exploitation du Sous-sol (CGES)*  
« Laboratory and in situ experiments of rock and modelling the stability of underground structures with Finite Element Code. Application to Mine, Borehole and Tunnel »
- 2001-2002** **Master's training**, *Ecole Nationale des Ponts et Chaussées, France, Centre d'Enseignement et de Recherche en Mécanique des Sols (CERMES)*.  
« Experimental and theoretical studies of suspension injection in a granular medium. Application to cement grouts »
- Jury members:** Jean-Louis FAVRE (ECP), Jean CANOU (ENPC), Jean-Claude DUPLA (ENPC), Zied SAADA (ENPC)
- 2000-2001** **Consultant engineer**, *GETEC Consulting, Lebanon*.  
Consultant in the design and analysis of reinforced concrete and precast/prestressed concrete *for the international highway between Lebanon and Syria*
- Summer 1999** **Training course**, *BAUER Entreprise*.  
Field supervision for Lugeon test and grouting for Berdawni River Project (Lebanon)
- Summer 1998** **Training course**, *Jean Hadathi Entreprise*.  
Field supervision of Hydraulic project for Zahle City (Lebanon)

## SOCIETIES

Member of French Doctor's Association (ANDÈS)  
Member of order of Engineers of Beirut

## ACADEMIC EXPERIENCE

### Talks in congress and seminars:

- Geotechnical International Symposium (Lebanon)
- Geotechnical Seminar (Austria)
- Underground Structure Seminar (Belgium)
- Post Mining 2005 (France)

### Scientific papers:

- « Study of the clayey rock behaviour under the action of water »
- « Stability of ground by grouting »
- « Effect of water on the mechanical behaviour of shales »

### Internal Reports (Ecole des Mines de Paris) :

- « Experimental and theoretical studies of the swelling of shale »
- « Influence of stress on the rock swelling »
- « Irreversibility of free deformations induced by swelling/shrinkage phenomenon of clay »
- « Estimation of diffusion coefficient. Application for the chemical change with HYTEC »
- « Hydro-mechanical coupling. Application for mine »

## LANGUAGES

**Arabic** : Native language

**French** : Fluent

**English** : Very good

## COMPUTER SKILLS

**Operating systems** : Ms Dos, Windows, Unix

**Civil engineering softwares** : Robot 2000, Talren, Foxta, Winrdm, Pca, Autocad

**Hydrological softwares** : Hydref, Hytec

**Finite element software** : Viplef-ENSMP

**Programming languages** : Fortran 77, C<sup>++</sup>, Visual Basic, Matlab

## HOBBIES

**Sports** : tennis, basket-ball, swimming

**Help Associations** : AFAAL-AUXILIA for Lebanese orphans

## REFERENCES

<http://jadwakim.free.fr/>

[http://c.f.m.r.free.fr/site\\_cfmr/Theses.html](http://c.f.m.r.free.fr/site_cfmr/Theses.html)

<http://pastel.paristech.org/archive/00001639/>

<http://www.cges.ensmp.fr/cgesdoc/tees/listepdf.html>

<http://www.enpc.fr/cermes/rappor2002.pdf>

[http://gisos.ensg.inpl-nancy.fr/UserFiles/File/PM05\\_Abstr.pdf](http://gisos.ensg.inpl-nancy.fr/UserFiles/File/PM05_Abstr.pdf)