



جامعة محمد الشريف مساعديّة - سوق أهراس
Mohammed-Cherif Messaadia University - Souk-Ahras
Fculty of science & Technology
Dept. Of Civil Engineering



Curriculum Vitae
Dr. Lotfi ZEGHADNIA
February 2019

1. Full name and date

- Name: Lotfi Zeghadnia
- Gender : Male
- date of writing the CV: 02/2019

2. Date and place of birth, nationality, current residence

- Date and place of birth: 13/04/1979, Souk Ahras, Algeria
- Citizenship: Algerian
- Current residence (Home address):03 street of Victor Hugo, Souk Ahras, 41000, Algeria.

3. Education and degrees awarded

- H.D.R (Habilitation à Diriger des Recherches): June 2016.
- Ph. D. Thesis (October 2014): from the Dept. of hydraulic, Faculty of science and technology, University of Badji Mokhtar, Annaba , Algeria.

Title: “*Contribution to the computation of sewer network for two cases of flow: steady and unsteady*”.

Jury :

- ✓ Pr. Djimili Lakhdar, University of Badji Mokhtar, Annaba City, Algeria,Advisor,
 - ✓ Pr. Ouerdachi Lahbassi, University of Badji Mokhtar, Annaba, Algeria, president
 - ✓ Pr. Djabbar Yassine, University of Souk Ahras, Algeria, referee,
 - ✓ Pr. Abderrahmen Boudoukha, University of Batna, Algeria, referee,
 - ✓ Pr. Amarchi Hocin, University of Annaba, Algeria referee,
 - ✓ Dr. Salim Heddami, University of Skikda, Algeria referee,
 - ✓ Pr. Houichi Larbi, University of Batna, Algeria, Invited member.
- Magister Thesis (2007):from the Dept. of hydraulic, Faculty of science and technology, University of Badji Mokhtar, Annaba, Algeria.

Advisor: Pr. Bachir Achour, University of Biskra, Algeria,

Title: “*Computation of pressurized turbulent flow in full pipe- New approach*”

- Engineer in urban water (2003): from the Dept. of hydraulic, Faculty of science and technology, University of Badji Mokhtar, Annaba, Algeria.

Advisor: Mr. Rezgui Nourdin, University of Souk Ahras, Algeria

Title:” *Water supply of Souk Ahras City*”.

4. Other education and training

- Training of senior technician in computer science (programming).
- NLP Training (Methods of Communications).
- Electronic program in Balanced life (From Gulf innovation Academy for e-training)

5. Linguistic skills

- mother tongue: Arabic
- Other languages: Arabic, French, English.

6. Current position

- Member of university scientific council: 2018/2021
- Vice Dean of the faculty of science and technology (Post-graduate studies) 04/2017-10/2017
- Senior Lecturer, University of Souk Ahras, Algeria, 2016/ Current day
- Lecturer, University of Souk Ahras, Algeria, 2014 - 2016,
- Assistant professor, University of Souk Ahras, Algeria, 2008-2014,
- Member dept. scientific committee,
- Member Faculty scientific council 05/2013 – 05/2016,
- Head of the Civil engineering Dept 2009 - 2010 and 2014 - 2015
- Head of the urban water training : 2011 - 2013
- Head of research team: laboratory of Sciences and techniques in water and environment.

7. Previous work experience

- Assistant professor (part-time), University of Souk Ahras, Algeria, 2007 - 2008.
- Engineer of studies in the national office of sewerage , 2006 - 2008
- Engineer of hydraulic in the directorate of water resources on Souk Ahras region, 2005 - 2006
- Engineer of studies in Architecture bureau, 2004 - 2005

8. Merits in teaching and pedagogical competence

- University of Souk Ahras 2007-2008
Urban water, Informatics Technology (Tutorial)
- University of Souk Ahras 2008- Until nowadays
Sewer network, Fluid mechanics, Informatics Technology (tutorial), Water supply, Irrigation, water resources management, pressurised flow, free surface flow

9. Academic merits

- **Permanent reviewer in the following journals:**
 1. Hydrology journal (edited by jacob's journal)
Link: <http://www.jacobspublishers.com/index.php/journal-of-hydrology-editorial-board>
 2. Civil engineering journal (edited by jacob's journal)
Link: <http://www.jacobspublishers.com/index.php/journal-of-civil-engineering-editorial-board>
- **Reviewing service:**
 1. Civil engineering (edited by KSCE, Springer),
 2. Urban Water (edited by Taylor & Francis),
 3. Journal of environment engineering research of Korean society of environment engineering (KSCE),
 4. International conference on Water Resource and Environment, China (WRE 2016),
 5. Journal of Pipeline Systems - Engineering and Practice, ASCE (American Society of Civil Engineers),
 6. Arabian Journal for Science and Engineering (Springer),
 7. Journal of water and climate change,

8. Journal of Materials and Environmental Science.
9. Synthese Revue, Annaba university-Algeria

3. Scientific Research

- 1) Lotfi ZEGHADNIA, Achour BACHIR and Jean-Loup ROBERT (2019) Discussion of “Accurate and Efficient Explicit Approximations of the Colebrook Flow Friction Equation Based on the Wright ω -Function” by Dejan Brkić; and Pavel Praks, Mathematics 2019, 7, 34; doi:10.3390/math7010034. Mathematics, 07(03), MDPI.
- 2) Lotfi ZEGHADNIA, Jean Loup ROBERT and Bachir ACHOUR (2019) Explicit Solutions For Turbulent Flow Friction Factor: A Review, Assessment And Approaches Classification. Ain Shams Engineering Journal , Elsevier, 10(01), 243-252.
- 3) Imed Boukhari, Lotfi ZEGHADNIA and Lakhdar Djimili (2018) New Formula For The Computation of the Water Surface Angle in Partially Filled Pipe: Case of Pipes Arranged in Parallel. Eau–Environnement–Climat’2018 , Hammamet le 22, 23 et 24 Octobre.
- 4) Noureddine ZENATI, Nabiha BELAHCENE, Asma REZAK, Lotfi ZEGHADNIA, Djelloul MESSADI and Ouahid BELKADI (2018) origine de la dégradation de la qualité des eaux d’oued Medjerda en aval. Région de Souk Ahras/Algérie. International Journal Of Environment & water, 7(2), 62-72, The Euro-Arab Organisation for the Environment, Water, and Desert Research.
- 5) Lotfi ZEGHADNIA, (2018) La réutilisation des eaux usées : une solution alternative pour limiter la pénurie de l’eau. Séminaire National Sur la Réutilisation des Eaux Dans le Développement Industriel. 25 Avril 2018, Annaba Hôtel Mimoza Palace.
- 6) Mohamed Amine Bensoltane, Lotfi ZEGHADNIA, Abdalhak Ghied, Yassine Djebbar (2018). Enhancement of the Residual Chlorine Concentration at the Ends of the Water Supply Network: Case Study Souk Ahras City-Algeria. Journal of Water and Land Development. DEGRUYTER, 38(01).
- 7) Abdelkrim GUEBAIL, Lotfi ZEGHADNIA and Yassine Djebbar (2017) How Does the Rainwater Harvesting Protect the Urban Areas against Flooding? Conference: Recent Advances in Environmental Science from the Euro-Mediterranean and Surrounding Regions. Springer, Sham, P: 883-884, Tunisia.
- 8) Abdelkrim GUEBAIL, Lotfi ZEGHADNIA and Yassine Djebbar (2017) Récupération des eaux de pluie, quel type de cuve appropriée pour le stockage des eaux récoltées ? 3ème colloque international Francophone en Environnement et Santé : 23, 24 et 25 octobre , Dunkerque, France

- 9) Abdelkarim Guebail, Toufik bouzian, Lotfi ZEGHADNIA, Yassine Djebbar, Saliha Bouranen. 2017. Rainwater harvesting in Algeria: utilization and assessment of the physico-chemical quality Case study of Souk-Ahras region. *Revue Courier de Savoir*. Vol 23, Univ - Biskra.
- 10) Lotfi ZEGHADNIA and Jean-Loup Rober (2017) New Approach for the computation of The water surface angle in partially filled Pipe: Case of Pipes Arranged in Parallel. *Journal of Pipeline Systems - Engineering and Practice*. 08(04). ASCE (American Society of Civil Engineers)
- 11) Abdelkarim Guebail, Toufik bouzian, Sofien Boukhari and Lotfi ZEGHADNIA (2016) An Overview On The Quality Stored Water Harvesting From The Houses Roofs. The 2nd ICIEM 2016, International Conference on Integrated Environmental Management for Sustainable , Tunisie
- 12) Lotfi ZEGHADNIA, Sabri Dairi, Karim Guebail, Nouredin rezgui, Yacin Djebar. (2016) Method for high efficiency of the flow in the circular pipes. 13th IWA Specialized Conference on Small Water and Wastewater Systems & 5th IWA Specialized Conference on Resources-Oriented Sanitation. *Athens, Greece* 14-16 September 2016.
- 13) Lotfi ZEGHADNIA, lakhdar djemili, Larbi houichi and Nouredine REZGUI (2015) Efficiency Of The Flow In The Circular Pipe. *Journal of Environmental Science and Technology* , 08(02), , Science Alert.
- 14) Lotfi ZEGHADNIA (2015) Que sais- je sur l'eau et le développement durable?. *Journée mondiale de l'eau-22 Mars*, Direction des ressources en eau, Souk Ahras
- 15) Lotfi ZEGHADNIA, Djemili Lakhdar, Larbi Houichi and Rezgui nouredin (2014) New equation for the computation of flow velocity in partially filled pipes arranged in parallel. *Water science and technology* , 70(01), 160-166, The International Water Association.
- 16) Lotfi ZEGHADNIA, Lakhdar Djemili and Larbi Houichi (2014) Analytical Solution for the Flow Velocity and Water Surface Angle in drainage and Sewer networks: Case of Pipes arranged in series. *International Journal of Hydrology Science and Technology*. , 04(01), 58-67, Inderscience.
- 17) Lotfi ZEGHADNIA, Djemili Lakhdar and Rezgui nouredine (2013) new approach for the computation of flow velocity in partially filled pipes arranged in parallel. *Seventeenth International Water Technology Conference 2013* , November 5-7, Istanbul, Turkey.
- 18) Lotfi ZEGHADNIA, Achour Bachir, Djimili Lakhder and Rezgui Nourdine (2011) calcul de l'écoulement turbulent en charge dans les systemes hydrauliques. *Séminaire National d'Hydraulique* , Chlef, Algerie.

- 19) Lotfi ZEGHADNIA, Djemili Lakhdar, Houichi Larbi and Rezgui nouredine (2010) Calcul de la vitesse dans une Conduite partiellement remplie. *5th Conférence Internationale, WATER RESOURCES IN MEDITERRANEAN BASIN » WATMED 5* , Lille, France.
- 20) Lotfi ZEGHADNIA, Djemili Lakhdar, Larbi Houichi and Rezgui Nouredine (2010) dimensionnement conditionne par degagement rapide du debit dans des conduites partiellements remplies. *1er Colloque international de l'eau 25 – 27 Octobre 2010 à Annaba* , Annaba.
- 21) Lotfi ZEGHADNIA, lakhdar djemili, larbi Houichi and Nouredin Rezgui (2009) Détermination de la Vitesse et la Hauteur Normale dans une Conduite Partiellement Remplie. *European Journal of Scientific Research* , 37(04), 561-566, Scientific Research Platform (SRP).
- 22) Lotfi ZEGHADNIA, Bachir achour, Lakhdar djemili and Rezgui nordine (2009) Calcul explicite du gradient de la perte de charge. *Symposium Méditerranéen de Géo engineering "SEMGE 09" USTBH, 2009*, Alger.
- 23) Lotfi ZEGHADNIA, djemili Lakhdar, Houichi Larbi and Rezgui nordine (2009) Explicitation du coefficient de frottement par la méthode du model rugueux de référence. *Congre International sur l'eau, Déchets & environnement, 2eme édition, Union des pays de la méditerranée*, El jadida, Maroc.

4. Projects:

1. Study of the risk of the dam break: case of the algerian eastern Dams (finish).
2. Optimisation of the energy consumption in the stations of wastewater traitment: case of Souk Ahras station (eastern Algeria)(on going).
3. L'eutrophisation Dans Les Barrages : Causes, Effets Et Solutions/Cas D'étude De Barrage Ain-Dalia Souk Ahras –Algérie (Submitted).

5. Books:

Les Nouvelles approches pour l'étude d'un réseau d'assainissement: Pour un écoulement permanent et uniforme.

Publisher: Presses Académiques Francophones.

ISBN: 978-3841633590.

6. Cours :

1. Hydraulique générale - Définitions et rappels

2. Hydrostatique

3. Hydrodynamique

4. Ecoulement en charge

5. Écoulement à surface libre et hydrologie.

Publisher: Editions Al-Djazair.

7. Areas of research interest

Hydraulic engineering,
Open channel flow,
Pressurised flow,
Water supply systems,
Drainage systems.,
Water quality.

8. Research Students Supervised/Trained

<u>Level</u>	<u>Number of Trainees</u>
PhD Students	02
Master Students	> 06
Undergraduate Students	03

9. Participation in Thesis and Oral Examination Committees

<u>Level</u>	<u>Number of Examinations</u>
H.D.R	02
PhD Students	08
Master Students	>10

10. Short stays for collaborations

2010 : Invitation for one month at “Laboratory of civil engineering and environment (LGCIE) University INSA LYON, France”

Invited by: Bernard Chocat.

Period: 01 months

2011- 2012 : Invitation for one month at “Department of Civil Engineering ,University of science and technology, Irbed, Djordan”

Invited by : Rami Haddad.

Period: 01 months

2013 - 2014: Invitation for one month at “Laboratory Of hydraulics, University of Laval, Quebec, Canada”

Invited by: Jean-Loup Robert.

Period: 01 months

2014 - 2015: Invitation for one month at “Laboratory Of hydraulics, University of Laval, Quebec, Canada”

Invited by: Jean-Loup Robert.

2015 - 2016: Invitation for one month at “Laboratory Of hydraulics, University of Laval, Quebec, Canada”

Invited by: Jean-Loup Robert.

Period: 01 months

11. Personnel website:

<http://www.univ-soukahrass.dz/en/profile/lzeghadnia>

12. Researchgate website:

https://www.researchgate.net/profile/Lotfi_Zeghadnia