

## **Dr. Faten Mustafa Al-Slaty**

**Work Position:** Assistant Prof.

**Work Address:** The Hashemite University, Faculty of Prince Al-Hasan Bin Talal  
for natural resources and environment- Office 203

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**Nationality:** Jordanian

**Date and place of Birth:** 1981- Jordan

**Marital Status:** Married

### **Education:**

- **Ph.D.** in Geology (Very good), University of Jordan- Amman, 2010

Concentrations: Geopolymers and geomaterials science

Dissertation Title: Durability of geopolymers product from Jordanian Hiswa clay

- **M.Sc.** in Applied Geology (Excellent), Hashemite University- Zarqa, 2006

Concentrations: Geochemistry and Environmental science

Dissertation Title: Environmental Aspects of Phosphate Beneficiation Processes in Al-Abeid Mine-Central Jordan: Migration and Dispersion of Heavy Metals in the Sediment, Soil and Water Systems

- **B.Sc.** in Geology and Environmental Sciences (Very good), Hashemite University- Zarqa, 2003.

**Taught courses** Mineralogy  
Industrial minerals and rocks  
Economic Geology  
General Geology  
Optical mineralogy

**Field of Interest** Applied geology, Environmental Issues, Industrial minerals and rocks, Geopolymers production, and materials science.



### Experiences and Employment History:

- ✓ Head of the Department of Earth and Environmental Sciences, September 2018 to September 2020.
- ✓ Assistant Prof. (B) 2018 till now Hashemite University- Faculty of natural resources and environment, Department of Earth and Environmental Sciences. Zarqa, Jordan
- ✓ **Lecturer (Full time)**, September 2015- 2018. Hashemite University- Faculty of natural resources and environment, Department Earth and Environmental Sciences. Zarqa, Jordan
- ✓ **Lecturer (Part time)**, September 2014- January 2015. Hashemite University- Faculty of natural resources and environment, Department of Earth and Environmental Sciences. Zarqa, Jordan
- ✓ **Assistant Professor**, November 2011- December 2013. Biology Department-Faculty of Science, Hail University, KSA
- ✓ **Research assistant**, Project of “Chemical stabilization of natural geomaterials for construction purposes”, November 2007- June 2010. Materials Lab-Geology Department, University of Jordan
- ✓ **Lab assistant**, Practical part of Hydrology, rocks and mineralogy courses. February 2007- January 2008. Geology Department-University of Jordan
- ✓ **Curricula Developer**, June 2006- February 2007. Canada Company for E-learning, Amman
- ✓ **Lab assistant**, Practical part of Hydrology, rocks and mineralogy, general geology, paleontology, remote sensing and GIS courses. December 2003-June 2005. Geology Department, Hashemite University.

### Funded Projects Grants & Fellowships/ Awards & Honors:

- ✓ Development of geosorbent materials for handling wastes in contaminated water. (2017-2021), Funded project form Deanship of Scientific research, The Hashemite University
- ✓ **Ph.D. Fellowship**, 11/2007-6/2010, VLIR (Flemish Vlaamse Interunivesitaire Raad), Brussle University, Belgium
- ✓ **M.Sc. Grant**, 10/2003-6/2005, Post-Graduated grants from Hashemite University
- ✓ **B.Sc. Fellowship**, 7/2000-6/2003, Zarqa Industry Chamber, Jordan
- ✓ **Academic excellence Honor**, Hashemite University, 2002

### Training:

- ✓ **Shaping the way we teaching workshop**, 15/3/2015, Language center- Hashemite University
- ✓ **Concepts and terminology of Quality**, 9/10/2012, Faculty of science- Hail University
- ✓ **SPSS**, 17-18/11/2012, Faculty of science- Hail University
- ✓ **TOEFL**, 1- 20/6/2008, Languages Center- University of Jordan
- ✓ **Geologists training program**, 17/10/2004-17/10/2005, NRA, Amman
- ✓ **Public safety**, 7- 11/8/2005, Water and Irrigation Ministry, Amman. Zarqa
- ✓ **Microsoft office**, 10/8- 10/10/2003, International Center for Recent Sciences, Zarqa
- ✓ **Success skills**, 1/11- 30/12/2003, Injaz program-Hashemite University
- ✓ **Speaking English**, 16- 27/6/2002, Languages Center- Hashemite University
- ✓ **Computer skills**, 27/1- 11/2/2002, Computer Department- Hashemite University

### Memberships:

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- ✓ Jordanian Geologists Association, since 2003
- ✓ National Olympiad for scientific creativity (member of judgment), KSA (2011-2013)
- ✓ Quality and development agency, Hail university, KSA (2011-2013)

### **References:**

- ✓ Prof. Huda manjood, Hail University, drhoda\_123@hotmail.com
- ✓ Dr. Mazen Al-Shaaer, University of Jordan, mazen72@yahoo.com
- ✓ Prof. Mohamad Al-Hawiti, Al-Hussein University, mohhwaiti@yahoo.com

### **Thesis Supervision**

#### **Co supervisor MSc**

- Mohammad Almasri, (2020). Characterization and Improvement of Expansive Bentonite-rich Clay in Al-Azraq Area with Different Jordanian Industrial Materials. Al al-Bayt University
- Sultan Alwreikat, 2021. Preparation, Characterization, and Utilization of Geopolymer Composites for Removal of Organic Pollutants from Industrial Wastewater. The Hashemite University

### **Publications:**

#### **A. Articles In Scientific Journals**

- ✓ Characteristics of residual oil fly ash and their utility for construction purposes. (2019), **Faten Slaty**, Islam Al-Dabsheh, Taleb Odeh. Kuwait J. Sci. 46 (3) pp:83-89.
- ✓ Index Properties of alkali activated cement Mortar Affected by The addition of Phosphatic Clay. (2018), **Faten Slaty**. JJEES 9 (1) pp: 63-66.
- ✓ Durability of alkali activated cement produced from kaolinitic clay. (2015), **Faten Slaty**, Hani Khoury, Jan Wastiels, Hubert Rahier. Applied Clay Science, ELSEVIER, Volume104, pp. 229-237
- ✓ Characterization Of Alkali Activated Kaolinitc Clay. (2013), Faten Slaty, Hani Khoury, Jan Wastiels, Hubert Rahier. Applied Clay Science, ELSEVIER, Volume75-76, pp. 120–125.
- ✓ Use of local raw materials for construction purposes. (2010), Rahier Hubert, **Faten Slatyi**, Islam Aldabsheh, Mazen Alshaaer, Hani Khoury, Muayad Esaifan, and Jan Wastiels. Advances in Science and Technology Vol. (69):152-155.
- ✓ Development of Low-Cost Functional Geopolymeric Materials. (2009), Alshaaer Mazen, **Slaty Faten**, Khoury Hani, Rahier Hubert, and Wastiels Jan. Ceramic Transactions, Advances in Materials Science for Environmental and Nuclear Technology, Volume 222, pp. 159–167.

#### **B. Communications at international congresses available as published articles**

- ✓ The Effect of Addition of Pozzolanic Tuff on Geopolymers. (2011), Khoury Hani, Aldabsheh Islam, **Slatyi Faten**, Abu Salha Yousef, Rahier Hubert, Esaifan Muayad, Wastiels Jan. The American Ceramic Society Advanced Ceramics and Composites (ICACC), Developments in Strategic Materials and Computational Design II: Ceramic Engineering and Science Proceedings, Volume.32, n. 10, pp.53 - 69, eds. W. Kriven, A. Gyekenyesi, J. Wang, published by Wiley.

- ✓ Geopolymers from Untreated Kaolinite as a Substitute for Cement. (2011), Khoury, H., **Slaty, F.**, Al Dabsheh, I., Y., Rahier, H., Esaifan, M., and Wastiels, J. GCREEDER Proceeding, pp.1-4, published by Global Conference on Renewable and Energy Efficiency for Desert Regions.
- ✓ Production of Geopolymers from Untreated Kaolinite. (2011), H. Rahier, M. Esaifan, Al Dabsheh, I., **Slaty, F.**, Khoury, H. , and Wastiels, J. The American Ceramic Society Advanced Ceramics and Composites (ICACC) Proceedings, Developments in Strategic Materials and Computational Design II: Ceramic Engineering and Science Proceedings, A. Gyekenyesi, W. M. Kriven, J. Wang, M. Singh (Editors). Wiley. ISBN: 978-1-1180-5995-1. Volume 32, Issue 10, pages 71-82.
- ✓ Geopolymer Products from Jordan for Sustainability of the Environment. (2011), Ceramic Transactions. Khoury, H., Abu Salha, Y., Al Dabsheh, I., **Slaty**, Alshaar, M., F., Rahier, H., Esaifan, M., and Wastiels, J.: Advances in Materials Science for Environmental and Nuclear Technology II The American Ceramic Society: Ceramic Transactions,, S. Sundaram , T. Ohji, K. Fox , E. Hoffman (Editors). Wiley. ISBN: 978-1-1180-6000-1. Volume 227, pp 289-300.
- ✓ Alkali activation of kaolinite for production of bricks and tiles. (2011), Rahier, H., Esaifan, M., Wastiels, J., **Slatyi, F.**, Aldabsheh, I., Khoury H., Non-traditional cement and concrete. IV, pp. 162 – 170, published by Vlastimil Bilek, Zbynek Kersner
- ✓ Geopolymer Products from Jordan for Restoration and Conservation of the Environment. (2010), Khoury Hani, Aldabsheh Islam, **Slatyi Faten**, Rahier Hubert, Esaifan Muayad, Wastiels Jan. Proceedings of the Seventh International Conference on Science and Technology in Archaeology and Conservation & The CIPA Workshop on documentation and Conservation of Stone Detoriation in Heritage Places, pp.195 - 201, eds. Talal S. Akasheh and Mario Santa Quinterro, Petra-Jordan.
- ✓ Use of local raw materials for construction purposes. (2010), Rahier Hubert, **Slatyi Faten**, Aldabsheh Islam, Alshaaer Mazen, Khoury Hani, Esaifan Muayad, Wastiels Jan. Proceedings of CIMTEC 2010, Montecatini Terme (It), issue Symposium CK: Geopolymers and Geocements.

### C. Communications at international congresses, available as abstracts

- ✓ Durability of the geopolymers produced from Hiswa clay, Jordan. (3-5 April, 2011), **Faten Slaty**, Hani Khoury, Hubert Rahier and Jan Wastiels. The 10<sup>th</sup> International Conference of Jordanian Geologists Association Under The Topic Of New Technologies And Geological Applications, Amman.
- ✓ Geopolymers: New Products for Sustainability of the Environment. (4-11 March, 2011), Khoury, H., Aldabsheh ,I., **Slatyi F.**, Rahier, H., Esaifan M., Wastiels J., and Hourani, M. First United Arab Emirates Conference on Pure and Applied Chemistry (ECPAC11), Sharjah, (AUS).
- ✓ The Effect of Addition of Pozzolan Tuff on Geopolymers. (27 January, 2011), Khoury Hani, **Slaty Faten**, Aldabsheh Islam, Alshaaer, Rahier Hubert, Esaifan Muayad, Wastiels Jan. Abstract. 35th International Conference and Exposition on Advanced Ceramics and Composites (ICACC), Florida.
- ✓ Production of geopolymers from unreacted kaolinite. (27 January, 2011), Hubert Rahier, Muayad Esaifan, Jan Wastiels, **Faten Slaty**, Islam aldabsheh, Hani Khoury. 35th International Conference and Exposition on Advanced Ceramics and Composites (ICACC), Florida.

- ✓ Geopolymers: new products for sustainability of the environment , (2010), Khoury Hani, Wastiels Jan, Rahier Hubert, Hourani Mohammed Khair, Esaifan Muayad, Aldabsheh Islam, **Slatyi Faten**, Workshop on Materials in Amman, Jordan.
- ✓ Characterization and durability of Geopolymer Products from Jordanian Hiswa Kaolinite. (29-30 November, 2010), **Faten Slaty**, Hani Khoury, Hubert Rahier and Jan Wastiels. The third conference for these researches, University of Jordan, Amman.
- ✓ Geopolymer Products from Jordan for Sustainability of the Environment. (17-21 October, 2010), Hani Nicola Khoury, Islam aldabsheh, **Faten Slaty**, Muayad Esaifan, Hubert Rahier, Jan Wastiels. Materials Science & Technology 2010 Conference & Exhibition, Texas.
- ✓ Use of local raw materials for construction purposes. (21- 27 August, 2010), Rahier Hubert, **Slatyi Faten**, Aldabsheh Islam, Alshaaer Mazen, Khoury Hani, Esaifan Muayad, Wastiels Jan. 12th International (MECC2010) General Meeting in Budapest, Italy.
- ✓ Kaolinite/NaoH Geopolymer for Construction Purposes. (6-18 June, 2010), H. Rahier, M. Esaifan, I. Aldabsheh, **F. Slatyi** , H. Khoury, B. Van Mele, J. Wastiels. CIMTEC 2010 - 12th International Conference on Modern Materials and Technologies. Tuscany, Italy.
- ✓ Characterization of the geopolymers produced from Hiswa clay, Jordan. (10-11April, 2010), **Slatyi Faten**, Khoury Hani, Rahier Hubert, Wastiels Jan. Workshop on Materials in University of Jordan.
- ✓ 25 years of geo- (mineral) polymers. (10-11 April, 2010), Wastiels Jan, Khoury Hani, Rahier Hubert, Hourani Mohammed Khair, Esaifan Muayad, Aldabsheh Islam, **Slatyi Faten**. Workshop on Materials in University of Jordan.
- ✓ Development of low-cost functional geopolymeric materials. (25-29 October, 2009), Alshaaer Mazen, **Slatyi Faten**, Khoury Hani, Rahier Hubert, Wastiels Jan. Materials Science & Technology Conference, Pittsburgh USA.
- ✓ Molecular and physico-chemical characterisation of low-temperature setting inorganic materials. (4 - 6 March, 2009), Rahier Hubert, Esaifan Muayad, **Slatyi Faten**, Aldabsheh Islam, Alshaaer Mazen, Khoury Hani, Wastiels Jan. The International Conference on Materials in Jordan , Amman.
- ✓ Environmental Impact Assessment of Phosphate Benefication Processes in Al- Abeid Mine, Central Jordan: Migration and Dispersion of Heavy Metals in Sediment, Soil and Water. (13-14 May 2009), **Al-Slaity, F.**, Al-Malabeh, A. and the Al-Hwaiti, M. Fifth Jordanian Environmental Conference, Amman .
- ✓ Environmental Impact Assessment of Phosphate Benefication Processes in Al- Abeid Mine, Central Jordan: Migration and Dispersion of Heavy Metals in the Sediment, Soil and Water. (10 April 2007), **Al-Slaity, F.**, Al-Malabeh, A. and Al- Hwaiti, M. Sixth International Symposium on Eastern Mediterranean Geology and the Ninth international Conference of Jordan Geologists Association, Amman.