

JWAN IBBINI

Assistant Professor
Department of Land Management
Faculty of Natural Resources and Environment
Hashemite University
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EDUCATION

Kansas State University – Manhattan, KS
Ph.D. in Biochemistry, September 2008

Jordan University of Science and Technology – Irbid, Jordan
M.S. in Applied Biology, April 2002

B.S. in Applied Biology, June 1998

WORK EXPERIENCE

Sultan Qaboos University (January 22 – May 14 / 2017)
Department of Soil Water and Agricultural Engineering
Visiting consultant

Hashemite University

Head of Land Management and Environment Department (September 2013 – September 2014)

Assistant Dean for student affairs (October 2010 – September 2011)

Assistant Professor (October 2008 – Until now)

- Fulfill teaching duties and supervise laboratory exercises.
- Perform research related to environmental remediation
- Conduct community services through workshops and seminars in reducing waste volume and sustainable development.

Kansas State University

Graduate Research Assistant (August 2005 - September 2008)

- Performed microcosm study for biostimulating and bioaugmenting bacterial culture for degrading tetrachloroethene (PCE).
- Designed, implemented, and monitored a pilot study for PCE degradation in the field.
- Participated in research team project to study phytoremediation of 1,4-dioxane Conducted chemical analysis using gas chromatography.

Graduate Teaching Assistant (August 2003 – July 2005)

- Instructed class help sessions for General Biochemistry (BIOCH 521).
- Taught and assisted teaching the following laboratories: General Biochemistry (BIOCH 522), Recombinant DNA Lab I & II (BIOCH 766 & 767), and Biochemistry in Society (BIOCH 111).

Hashemite University**Teaching Assistant (May 2002 - June 2003)**

- Prepared laboratory manuals for soil microbiology and water microbiology courses.
- Coordinated and directed laboratory exercises for students in soil and water microbiology labs.

Jordan University of Science and Technology**Teaching and Research Assistant (August 1998 - August 2000)**

- Instructed General Biology Lab (BIO 107).
- Conducted laboratory research for master degree.

ORAL PRESENTATIONS AND POSTERS

- **J. Ibbini**, M Qinna, K Mashal, J abu Dhail, K Zoubi and M Masaadeh. **2018**, Antimicrobial properties of natural clay minerals: facts or foe?. Poster at the Regional Conference to Promote safe and Secure Science in the Middle East/ North Africa and South/ Southeast Asia.5-9 February, Malaysia.
- Kholoud Mashal, Mohammed Al Qinna, **Jwan Ibbini**, **2010**. Phosphorous-sorption characteristics of calcareous soils in Arid and Semiarid Regions. International Conference on Energy, Water and Environment. ICEWE. Amman- Jordan
- **J. Ibbini**, S. Santharam, L.C. Davis, L.E., Erickson, **2009**. *Laboratory and field scale bioremediation of tetrachloroethene (PCE) contaminated groundwater*. International conference on green energy and sustainability for arid regions and mediterranean countries. ICEGES. Amman, Jordan.
- H. Xie, **J. Ibbini**, A. J. Dickenson, L.C. Davis, L.E. Erickson. **2008**. *Phytoremediation of azo-based textile dyes*. 5th International conference on phytotechnologies. Nanjing China.
- **J. Ibbini**, L.C. Davis, L.E., Erickson, **2007**. *Introducing Phytoremediation in Education: Textile Dyes in the teaching lab*. Poster. 4th International Conference on Phytotechnologies. Denver, CO.
- Bhandari, A., L. Christianson, L.E. Erickson, S. Hutchinson and **J. Ibbini**, **2007**. *Teaching Phytoremediation in a Geoenvironmental Engineering Design Course*. Poster. 4th International Conference on Phytotechnologies. Denver, CO.
- **J. Ibbini**, L.C. Davis and L.E. Erickson, **2007**. *Nutrient biostimulation and bioaugmentation for tetrachloroethene (PCE) degradation in natural water*. Oral presentation. American Ecological Engineering Society. Kansas State University. Manhattan, KS.
- **J. Ibbini**, L.C. Davis and L.E. Erickson, **2007**. *Evaluation of tetrachloroethene (PCE) degradation in contaminated ground water*. Oral presentation. Proceedings of 36th Biochemical Engineering Symposium. Kansas State University. Manhattan, KS.
- **J. Ibbini**, L.C. Davis and L.E. Erickson, **2007**. *Nutrient utilization and microbial degradation of tetrachloroethene (PCE) contaminated ground water*. Poster presentation. 12th Annual Graduate Research Forum. Kansas State University. Manhattan, KS.
- **J. Ibbini**, L.C. Davis and L.E. Erickson, **2006**. *Effect of cheese whey on anaerobic dechlorination of tetrachloroethene (PCE)*. Oral presentation. Proceedings of Biochemical Engineering Symposium. South Dakota School of Mines and Technology. Rapid City, SD.
- S. Santharum, **J. Ibbini**, L.C. Davis and L.E. Erickson, **2006**. *Field demonstration of Bioremediation for tetrachloroethylene contaminated site*. Proceedings of Biochemical Engineering Symposium. South Dakota School of Mines and Technology. Rapid City, SD.
- **J. Ibbini**, L.C. Davis and L.E. Erickson, **2006**. *Microcosm study of tetrachloroethene (PCE) degradation with cheese whey*. Poster. 61st Annual Kansas Water Environmental Association Conference. Topeka, KS.

- S. Santharum, **J. Ibbini**, L.C. Davis and L.E. Erickson, **2005**. *Laboratory and field demonstration of bioaugmentation for remediation of tetrachloroethene (PCE)*. Oral presentation. Proceedings at the AIChE Annual Meeting. Cincinnati, OH.
- **J. Ibbini**, L.C. Davis and L.E. Erickson, **2005**. *Microcosm investigation of the dechlorination of tetrachloroethene (PCE)*. Poster. Proceedings of the 34th Annual Biochemical Engineering Symposium. University of Oklahoma. Norman, OK.
- **J. Ibbini**, L.C. Davis and L.E. Erickson, **2004**. *Tetrachloroethene (PCE) degradation in contaminated soil and groundwater*. Poster. Proceedings of the 39th Midwest Regional Meeting of the American Chemical Society. Manhattan, KS.
- Santharum, S., **J. Ibbini**, L.C. Davis and L.E. Erickson, **2004**. *Biodegradation of tetrachloroethene (PCE) in soil and groundwater*. Poster. Proceedings of the 33rd Annual Biochemical Engineering Symposium. University of Nebraska. Lincoln, NB.

PUBLICATIONS

- 1- **J. Ibbini**, Xie, H., Davis, L.C. and Erickson, L.E. 2009. Phytoremediation in Education: Textile Dye Teaching Experiment, International Journal of Phytoremediation. Volume 11 Issue 5, 451.
- 2- **J. Ibbini**, S. Santharam, L. C. Davis and L. E. Erickson. 2010. Laboratory and field scale bioremediation of Tetrachloroethene (PCE) contaminated groundwater. JJMIE. Vol.4.issue 1, 35 – 44.
- 3- Kholoud Mashal, Mohammed Al Qinna, **Jwan Ibbini**, 2010. Phosphorous-sorption characteristics of calcareous soils in Arid and Semiarid Regions. International Journal of sustainable water and Environmental Systems. Vol 3, Issue 1. 53-58.
- 4- S. Santharam, **J. Ibbini**, L. C. Davis and L. E. Erickson. 2011. Field study of biostimulation and bioaugmentation for remediation of tetrachloroethene in groundwater. Remediation Journal. Volume 21, Issue 2, 51-68.
- 5- Salahuddin M. Jaber, **Jwan H. Ibbini**, Nawal S. Hijjawi, Nafn M. Amdar, Mohammed J. Huwail, Khalid Al-Aboud, 2013. Exploring recent spatial patterns of cutaneous leishmaniasis and their associations with climate in some countries of the Middle East using geographical information systems. Geospatial Health. Vol 8, No. 1, 143-158.
- 6- Book chapter by: Kelly Hudek, Lawrence C. Davis, **Jwan Ibbini** & Larry Erickson. 2014. Chapter 11: Commercial Products from Algae. In Algal Biorefineries. Volume 1; Cultivation of Cells and Products, Springer, pp. 275-295.
- 7- Salahuddin M. Jaber, **Jwan H. Ibbini**, Nawal S. Hijjawi, Nafn M. Amdar. 2014. An Exploratory Comparative Study of Recent Spatial and Temporal Characteristics of Cutaneous Leishmaniasis in the Hashemite Kingdom of Jordan and Syrian Arab Republic pre-Arab Spring and Their Health Policy Implications. Applied Spatial Analysis and Policy. Vol.7, Issue 4, 337-360.
- 8- Book chapter by **Jwan Ibbini**. 2015. Chapter 15: Recognizing Biosecurity in Jordan In Preventing Biological Threats: What You Can Do: A Guide to Biological Security Issues and How to Address Them. Bradford University Press, pp. 296-314.
- 9- Ahmed A. Al-Hammouri, **Jwan Ibbini**, Emad Ebsoul and Soum Sanogo. 2017. Effect of salinity on recovery of *Rhizoctonia solani* from infected tomato (*Solanum lycopersicon* mill). Bulgarian Journal of Agricultural Science, 23 (No 5), 757–761 Agricultural Academy.

10- Ahmed A. Al-Hammouri, Salman D. Al-Kofahi, **Jwan Ibbini**, Shereen A. Bbusmier, and Soum Sanogo. 2018. Effect of biofumigation by *Calligonum polygonoides*, dry olive leaves, and ash of olive leaves on chilli pepper growth and recovery of *Rhizoctonia solani*. Acta agriculturse Slovenica, 111-1, 41 – 49. doi:10.14720/aas.2018.111.1.05

11- **Jwan H. Ibbini**, Mohammed I. Al-Qinna, Kholoud Y. Mashal, Jamila Abuidhail, Karem H. Alzoubi, Majed M. Masadeh. 2018. Clay minerals from Jordanian soils: Can they be Antibacterial?, Jordan Journal of Earth and Environmental Sciences. JJEES-2018-19

AWARDS AND SCHOLARSHIPS

- Winning poster award at the Regional Conference to Promote safe and Secure Science in the Middle East/ North Africa and South/ Southeast Asia.5-9 February, 2018. Malaysia.
- 3rd place award for poster presentation competition at the 4th International Phytotechnologies Conference in Denver, CO (September **2007**).
- Manhattan Rotary Club Award in Manhattan, KS (April **2006**).
- 2nd place award for poster competition at the 61st Annual KWEA Conference in Topeka, KS (April **2006**).
- Graduate Teaching Assistant in Biochemistry Award (Fall **2004**).
- Kansas State University PhD Scholarship (June **2003 – Present**).
- Hashemite University Scholarship for Master Study (**2000 – 2002**).
- Jordan University of Science and Technology Honors Student Scholarship for Master Study (**1998 – 2000**).

ACTIVITIES

- **EDAMA** group since January 2009.
- Jordan Environmental Society (**JRES**) 2011.
- Jordanian Renewable Energy Society (**JRES**) since January 2009.
- American Ecological Engineering Society (**AEES**) since May 2007.
- Kansas Water Environmental Association (**KWEA**) since April 2006.
- Women in Engineering and science program (**WESP**) since August 2004.
 - Participated in many activities with Girls Researching Our World (**GROW**) program.
 - Conducted and organized hands on activities for middle school girls to help them build interest in science and engineering majors.

SKILLS & TRAINING COURCES TAKEN

30 hours training in Learning Management System, Virtual Class Room Capturing Tools, Authoring Tools. E-learning Center, Hashemite University, **February 2009.**

40 hours Hazwoper Training, Division of Public Safety, KSU, **August 2005**

30 hours training, Jordan University of Science and Technology, Department of Vet. Med. Use of DNA analysis in biomedical sciences, **November 2001**

8 weeks training: Jordan University of Science and Technology health center, **July 1997**

Languages: Fluent in English and Arabic (written and verbal)

Application Software: Microsoft Office Applications.

COMMITTEES

- Scientific Committee for the Second Zarqa Engineering Conference. Organized by Jordan Engineering Society and Zarqa University. November, 2010. Zarqa- Jordan.

- Scientific Committee of the Global Green Techies Forum and Exhibition. GTFEX. Organized by Jordan Renewable Energy Society and Ministry of public work and housing. September 2010. Amman- Jordan.
- National Committee of Green Building Incentives. Ministry of public work and housing. December 2009 – until now.
- Member in the scientific community to organize an international conference for renewable energy.
- Member in the green building council committee at the Ministry of Public Works and Housing to set up green building incentives in Jordan.
- Member in agriculture and environment committee at the Jordan Society for Scientific Research (JSSR).

COURSES TAUGHT

- Special Topics in Climate Change and Biodiversity
- Environmental Awareness
- Biochemistry
- Environmental Science
- Soil Microbiology
- Water Microbiology
- Water Resources
- Remediation Technologies
- Special Topics in Environmental Microbiology and Biochemistry (Graduate Level)
- Biology lab
- Ecosystem Management (Graduate Level)

Funding:

- Primary investigator in the following research projects:

1- Screening, isolation and characterization of actinomycetes from Jordan Soils.

Source: Deanship of Scientific Research/ Hashemite University

Value: 41000 JOD

Date: Dec. 29, 2014

Duration: 24 months

2- Evaluation of medicinal use of clay minerals isolated from Jordan's soil.

Source: Funded by Scientific Research Support Fund

Value: 52598 JOD

Date: February 10, 2014

Duration: 30 months

3- Investigating the potential effect of biochar application in some Jordanian farm on soil microbiota

Source: Deanship of Scientific Research/ Hashemite University

Value: 2000 JOD

Date: April 6, 2016

Duration: 12 months

- Research member in the following EU funded projects:

- 1- **MAPEC**: Master Program of Environmental Engineering and Climate Change
- 2- **CLIMASP**: Climate Change and Sustainability Policy

Committee member for the following Master students:

Student Name	Position	Thesis Title	Year
Esra'a Ahmed Al-Turk	Major advisor	Water disinfection by solar energy	2016
Yousef Hamdi A- Awawdeh	Major advisor	Assessment of environmental awareness in Zarqa City	2016
Kamal Jihad Hijawi	Co-Advisor	The Impact of Syrian Immigration on the Prevalence of Cutaneous leishmaniasis in Jordan	2016
Mai Tarabsheh	External Examiner	Impact of Intensive agricultural practices in Jordan Valley on selected soil biological characteristics	2015
Jumana Mallahi	External Examiner	Carbon sequestration evaluation in soil under different management practices using microbial indicators	2010
Bayan Al- Rjoub	External Examiner	Phytoremediation of cadmium and zinc contaminated soil using <i>Thlaspi Caerulescens</i>	2008