CURRICULUM VITAE

Dr. Adel Mohamed Ghoneim

Associate Professor of Environmental Soil Chemistry

PERSONAL DATA

Name: Adel Mohamed Ghoneim
Date of Birth: 25/4/1967
Nationality: Egypt
Current Address: Department of Soil Sciences, College of Food and Agricultural Sciences, King Saud University, P.O. Box 2460, Riyadh 11451, Saudi Arabia
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ACADEMIC/PROFESSIONAL PARTICULARS

Field of Specialization: Environmental Soil Chemistry and Fertility

Academic Qualifications

- Visiting Research Fellowship, Japan International Research Center for Agricultural Sciences (JIRCAS), (Tsukuba-Okinawa), Japan, Oct., 2008-Oct., 2009.
- Research Associate at Department of Life Environment Conservation Science, Ehime University, Japan from April, 2006-March, 2007.
- Postdoctoral, Soil Fertility and Plant Nutrition Lab., Ehime University, Japan, 2003-2005.
- Ph.D. in Environmental Soil Chemistry, Sep., (2002), Ehime University, Japan.

Thesis entitled: "Reaction of nano-ball allophone with zinc and copper and its mechanism by molecular orbital method".

- M.Sc. in Soil Fertility and Plant Nutrition, February (1996), Tanta University, Egypt.

Thesis entitled: "Effect of submergence on some physical, chemical and biological changes of some north delta soils as well as yield and yield components of rice plants".

- Diploma in Soil Fertility and Plant Nutrition, November, (1996), Japan International

Cooperation Agency (JICA), Japan.

- B.Sc. in Soils and Water Sciences, June (1989), Alexandria University, Egypt. "Very good".

Academic Honors and Awards

- Awarded distinguished national science certificate, Alexandria University, Egypt, 1989.
- Awarded full fellowship sponsored by Japan International Cooperation Agency (JICA), Japan, 1996.
- Awarded full scholarship (MONBUSHO) by the Japan government for the Doctoral Program, Ehime University, Japan, 1999-2002.
- Norman E. Borlaug International Agricultural Science and Technology Fellowship, USA, 2011.
- Joint research grant funded by Science and Technology Development Fund (STDF) in cooperation with Oregon State University, USA, 2011.

Membership of Professional

1) Japanese Soil Sciences and Plant Nutrition.
2) Crops Sciences of Japan.
3) Journal of the Saudi Society of Agricultural Sciences.
4) Saudi Journal of Biological Sciences.
5) Egyptian Syndicate of Agricultural Professions, member, (1990 – till now).
6) Member of Egyptian Society of Soil Science
7) Member of Environment Development journal
8) Japanese Crop Science Society, Shikoku branch, Japan
9) Member of the International Zeolite Association

CAREER DETAILS

Academic Positions Held

- Assistant Professor, Department of Soil Sciences, College of Food and Agricultural Sciences, King Saud University, 11451, Saudi Arabia; Sep., 10, 2011 to August, 31, 2014.
- Associate Professor; Department of Soil Sciences, College of Food and Agricultural Sciences, King Saud University, 11451, Saudi Arabia; August, 31 till now.
- Associate Professor, Agricultural Research Center, Egypt; June, 2010 till now
- Assistant Professor, Agricultural Research Center, Egypt, December, 1996 to June 2010.
- Demonstrator, Agricultural Research Center, Egypt, June, 1993 to June 1996.
- Demonstrator, Tanta University, Kafr El-Sheikh Branch, June 1990 to June 1993.

POSTDOCTORAL AND VISITING PROFESSOR

- Postdoctoral; Japan International Research center for Agricultural Sciences (JIRCAS) Japan; Sep., 2008-Oct., 2009.
- Assistant Professor; Department of Life Environment Conservation Science, Ehime University, Japan from April, 2006-March, 2007.
- Assistant Professor; Department of Department of Bio-resource Production Science Management, Ehime University, Japan, 2003-2005.
- Visiting Professor; Joint research grant funded by Science and Technology Development Fund (STDF) and in cooperation with Oregon State University, USA, 2011 for 6 months.
- Visiting Scholar; Norman E. Borlaug International Agricultural Science and Technology Fellowship hosted by Washington State University, USA, 2011.

Teaching (King Saud University)

Summary of Courses Taught

- SOSC 201: Fundamental of Soil Science.
- SOSC 331: Soil Fertility and Fertilization.
- SOSC 532: Plant Nutrition
- SOSC 222: Soil, Water and Plant Analyses
- SOSC 421: Soil Chemistry
- SOSC 141: Fundamental of Environment
- SOSC 531: Advance Soil Chemistry
- ENVSC 523: Soil Pollution
- SOSC 623: Chemistry of Soil Colloids

Participation in Academic Accreditation

- Membership of "Committees for Characterization of Academic Programs and Courses and awareness, Department of Soil Sciences, College of Food and Agricultural Sciences, King Saud University from Sep., 2011 till now.
- Arbitrator in committee for Undergraduate Student's Research Support Program, Deanship of Scientific Research, King Saud University.
- Arbitrator in committee of reviewers for Research Proposals, Books, Deanship of Scientific Research at King Saud University.

RESEARCH

Research Interests

- Soil Plant Interaction.
- Nutrients dynamics in agro ecosystems by using stable isotopes.

- Nitrogen mineralization kinetics and nutrient availability in soil amended with of by-products materials.
- Phosphorus solubility in soil amended with organic and inorganic P sources.
- Sustainable Agriculture
- Heavy metal contamination in terrestrial ecosystem.
- Zeolite synthesis, characterization and application.
- Rehabilitees of contaminated soils.

Submitted and Accepted Projects

- **Principal Investigator** of the project (Production of activated carbon from date palm biomass by microwave heating for wastewater treatment). Funded by The National Plan for Sciences & Technology (NPST), King Abdulaziz University, Saudi Arabia (NPST). **13-ENV1102-02**.
- **Principal Investigator** of the project (Zeolite-combining agricultural by-products as adsorbents for heavy metal removal from polluted soils and water remediation). Submitted to KACST.
- **Co-Investigator** of the research project (Improving Phosphorus Use Efficiency with Polymer Coated Fertilizer, Foliar Fertilization Organic Soil Amendments). Submitted to KACST.
- **Co-Investigator** of the research project (Impact of Arbuscular Mycorrhizal Fungi and Slow-Release Fertilizers on Seedling and Growth of Tomato, Cucumber and Pepper Plants Irrigated with Saline Water). Submitted to KACST.
- **Co-Investigator** of the research project (Remediation and Rehabilitation of polluted soils at Industrial communities in Saudi Arabia). Funded by The National Plan for Sciences & Technology (NPST), King ABdulaziz University, Saudi Arabia (NPST).
- Research Project, **Co-Investigator** (Co-I), (Characteristics and Composition of the Falling Dust and Particulate matter and its Health Hazards in Riyadh City, Saudi Arabia). Funded by NPST. **08ENV319-02**.
- **Co-Investigator** of the research project (Effectiveness of chemical compounds released from grasses and crops that inhibit ammonia oxidation in soil). Funded by Ministry of Agriculture, Forestry and Fisheries, Japan 2006-2010.
- **Co-Investigator** of the research project (Intensive Fertilizer Applications to crops and its negative consequences on the environment) funded by KACST.
- **Co-Investigator** of the research project (Characterization and Exploitation of Biological Nitrification Inhibition), Ministry of Agriculture, Forestry and Fisheries, Japan.
- **Co-Investigator** of the research project (New Technology for Improving Phosphorus Use Efficiency Using Polymer Coated Fertilizer) funded by Research Center, Faculty of Science, Princess Nourah Bint Abdulrahman University.
- **Co-Investigator** of the research project (Monitoring and Assessing the Environmental impacts of off-road driving on natural recreational areas in central Saudi Arabia by using remote sensing) funded by National Science, Technology and Innovation Plan, Saudi Arabia.

Current & Running Projects

- Research Project, Co-Investigator (Effect of Organic Fertilizers on Phosphorus Dynamics in Calcareous Soils) submitted to Research Center Faculty of Science, Princess Nourah Bint Abdulrahman University.

Research Students Supervised

1) Student name: Mohamed Sakaf Al-Sakaf

Thesis title: "Effect of Manure Types and Period of Incubation on Phosphorus forms in Calcareous Soils".

Degree: M.Sc. December 2014 (Master degree in Soil Sciences).

Address: Department of Soil Sciences, College of Food and Agricultural Sciences, King Saud University: Prof. Dr. Abdullah Modaihsh and Dr. Adel Mohamed Ghoneim (Co-I).

2) Student name: Khalid Al Rohily

Thesis title: "Synthesis, characterization and assessment of Phosphorus Coated Fertilizers with Superabsorbent Polymers".

Degree: PhD. January 2016 (Ph.D. degree in Soil Sciences).

Address: Department of Soil Sciences, College of Food and Agricultural Sciences, King Saud University: Prof. Dr. Abdullah Modaihsh, Dr. Adel Mohamed Ghoneim (Co-I) and Dr. Hany Abdel-Monem El-Hamshary.

3) Student name: Khalid Al Rohily

Thesis title: "Effect of Organic Fertilizers Addition on Phosphorus Availability in Calcareous Soils".

Degree: M.Sc. 2007 (Master degree in Soil Sciences).

Address: Department of Soil Sciences, College of Food and Agricultural Sciences, King Saud University: Prof. Dr. Abdullah Modaihsh.

4) Student name: Saif Al-Harbi

Thesis title: Effect of foliar application phosphorus on wheat and corn grain yield phosphorus uptake and use efficiency in Calcareous soil".

Degree: M.Sc. December 2010 (Master degree in Soil Sciences).

Address: Department of Soil Sciences, College of Food and Agricultural Sciences, King Saud University: Prof. Dr. Abdullah Modaihsh.

5) Student name: Suliman Al-Mutairi

Thesis title: Production of Compost from Municipal Solid Waste in Riyadh City.

Degree: M.Sc. 2009 (Master degree in Soil Sciences).

Address: Department of Soil Sciences, College of Food and Agricultural Sciences, King Saud University: Prof. Dr. Abdullah Modaihsh and Dr. Reda Abd Aaziz.

6) Student name:

Thesis title: Evaluation of Chlorophyll Meter and Leaf Color Chart for Nitrogen Management on Wheat in Saudi Arabia.

Degree: M.Sc. 2011 (Master degree in Soil Sciences).

Address: Department of Soil Sciences, College of Food and Agricultural Sciences, King Saud University: Prof. Dr. Abdullah Modaihsh.

Participation in Thesis and Oral Examination Committees

1) Student name: Kamal Hassan Suliman Elmakki

Thesis title: "Interaction between N- fixer and Mycorrhizal Fungi on Acacias under Salinity and Drought Stress Conditions".

Degree: Ph.D 2016, degree in Soil Sciences.

Address: Department of Soil Sciences, College of Food and Agricultural Sciences, King Saud University: Prof. Dr. Fahad N. Al Barakah.

2) Student name: Hasan Al-Makarmi

Thesis title: "Simulation of soil loss, runoff, and the transport of NPS pollutants in Najran basin using watershed models and GIS".

Degree: Ph.D 2016, degree in Soil Sciences.

Address: Department of Soil Sciences, College of Food and Agricultural Sciences, King Saud University: Prof. Dr. Aly Al-Turkey.

3) Student name: Omar Al-Bassir

Thesis title: "Production of Compost from Olive Wastes enriched with Phosphate rock".

Degree: Ph.D. degree in Soil Sciences, 2012.

Committee Members: Prof. Dr. Abdullah Modaihsh, Prof., Dr. Fahad Al Barakh, and Dr. Mohamed Alwabel.

Address: Department of Soil Sciences, College of Food and Agricultural Sciences, King Saud University

4) Student name: Mansour Alhawas

Thesis title: "Treatment of Industrial Wastewater Polluted with Heavy Metals Using Natural Clay Deposits"

Degree: M.Sc. 5 January 2011 (Master degree in Soil Sciences).

Address: Department of Soil Sciences, College of Food and Agricultural Sciences, King Saud University. Committee Members: Dr. Mohamed Alwabel and Dr. Mohamed Al-Sewailem.

5) Student name: Azza Ebid

Thesis title: "Plant uptake of nitrogen, carbon and other nutrients in paddy rice and some vegetable growing soils amended with by-product composts".

Degree: M.Sc. Sep., 2005 (Master degree in Soil Fertility and Plant Nutrition).

Address: Department of Agrobilogical Sciences, Ehime University, Japan. Committee Members: Prof. Ueno Hietoto (Ehime University, Japan).

6) Student name: Saad al-Harbi

Thesis title: "Assessment of Zeolite Minerals on Purification of Wastewater".

Degree: M.Sc. 2010 (Master degree in Soil Science).

Address: Department of Soil Sciences, College of Food and Agricultural Sciences, King Saud University. Committee Members: Dr. S a u d A l - O u d .

7) Student name: Azza Ebid

Thesis title: "Nutrients uptake by crops grown in the soil amended with organic waste materials".

Degree: PhD. Sep., 2008 (PhD in Soil Fertility and Plant Nutrition).

Address: Department of Agrobilogical Sciences, Ehime University, Japan. Committee Members: Prof. Ueno Hietoto (Ehime University, Japan).

8) Student name: Adel Al-Tabas

Thesis title (Survey and Assessment of Polycyclic Aromatic Hydrocarbon (PAHs) in Aljubail city soil).

Degree: M.Sc 2013(Master degree in Soil Science).

Address: Department of Soil Sciences, College of Food and Agricultural Sciences, King Saud University. Committee Members: Dr.M o h a m e d A l - S e w a i l e m .

9) S t u d e n t n a m e : Alaa Ibrahim Abdel Rahman

Thesis title (Impact of Biochar and Compost on Hydro-physical Properties of Sandy Soil and Water Use Efficiency of Bell Pepper (capsicum annuum L.)

Degree: PhD 2016(PhD degree in Soil Science).

Address: Department of Soil Sciences, College of Food and Agricultural Sciences, King Saud University. Committee Members: Prof. Abdulrasoul Mosa Al-Omran.

Technical Presentations

- **Adel Ghoneim**, Abdullah Al-Farraj, Sallem E. El-Maghraby and Soud Al-Zahrani (2015). Heavy metals accumulation in *Cenchrus ciliaris* and *Fagonia indica* native plants. Case study: Al- Riyadh city, Saudi Arabia. ^{30}th Meeting of the Saudi Biological Society Proceedings, Tabuk University, Saudi Arabia, April, 7-9/2015.
- Modaihsh, A.S., Mahjoub, M.O., Sallam, A. Sh. and **Adel M. Ghoneim** (2015). Assessing soil degradation in Al-Kharj Center, Saudi Arabia. IICBE 2015, International Conference on Chemical, Environmental and Biological Sciences, March 18-19, 2015 Dubai (UAE).pp: 232.ISBN 978-93-84422-11-0.
- Abdulla S. Modaihsh, Adel **M. Ghoneim**, Abdelazeem Sh. Sallam and Mohamed O. Mahjoub (2014). Soil Salinity, Sand Encroachment and Erosion as indicators of Land Degradation in Harad Center, Saudi Arabia.The 3rd International Geosciences and Geomatics Conference, **Istanbul** 27-29 October 2014.

- EL-Refaee, I.S.; **A.M. Ghoneim**; and W.H. El-Kallawy. Rice grain yield and water productivity as influenced by N-fertilizer and compost under flooded and non-flooded conditions. The Fifth Field Crops Conference, Field Crops Research Institute, Agricultural Research Center, Giza, **Egypt**, 18-20 November, 2014, Extend Abstract.

- Abdullah Saad Modaihsh, **Adel Mohamed Ghoneim**, Mohamed Osman Mahjoub & Mahmoud Elsayed Ali Nadim (2014). Seasonal and Spatial variations of the Particulate Matter in Riyadh City, Saudi Arabia. 22nd International Conference on Modelling, Monitoring and Management of Air Pollution. 7 - 9 July, 2014. Opatija, **Croatia**.
- S. O. Mutairi, **A. M. Ghoneim**, A.S. Modaihsh, M.O. Mahjoub & R. A. Abdel- Aziz (2014). Characterization and Composting of Municipal Solid Waste of Riyadh City, Saudi Arabia. 7th International Conference on Waste Management and the Environment, 12-14 May, 2014. Ancona, **Italy**.
- **Adel Mohamed Ghoneim**. Production of Compost from Municipal Solid Waste of Riyadh city, Saudi Arabia. 29th Meeting of the Saudi Biological Society Proceedings, Dammam University, Saudi Arabia, 25-27 Feb., (2014), pp 29.
- Abdullah Saad Modaihsh, **Adel Mohamed Ghoneim** and Mohamed Osman Mahjoub (2013). Spatiotemporal Variation of dust fallout in Riyadh City, Saudi Arabia. International Conference on Environment & Energy 2013, 16-17 December, Colombo, Sri Lanka.

Participation in Regional & International Conferences

- International Remote Sensing Conference, King Faisal Conference Hall, Riyadh Intercontinental hotel, Saudi Arabia, January 17-20, 2016.
- The 6th annual Saudi Technology Incubation Conference 2015. King Abdulaziz City for Science and Technology, 20-21 January, 2015.
- 6th international Conference on Water Resources Arid& Environments (ICWRAE6), Riyadh, Saudi Arabia, 16-17 December 2014.
- Partnership for innovation: The experience of Saudi Arabian and Japan. Colleague of Computer and Information Sciences, King Saud University, 17 December 2014.
- The 3nd Saudi International Nanotechnology Conference 2014. King Abdulaziz City for Science and Technology, Riyadh, Saudi Arabia, 1-3 December, 2014.
- 6th International Conference on Water Resources and Arid Environments. 16-17 December 2014 King Saud University, Riyadh, Kingdom of Saudi Arabia.
- The 2nd Saudi International Environmental Technology Conference 2014. KACST Headquarters, Building 36, Riyadh, Saudi Arabia.
- Asia-Pacific Association of Agricultural Research Institutions (APAARI) and Japan International Research Center for Agricultural Sciences (JIRCAS) international symposium, October 21-22, 2008, Tsukuba International Congress Center, Tsukuba, Japan.
- Egypt-Japan International Symposium on Science and Technology (EJISST2008), Waseda University, Tokyo, Japan, 2008.
- Symposium on Global Climate Change: Imperatives for Agricultural Research in Asia-Pacific, Tsukuba International Congress Center (Tsukuba University, Ibaraki), 2008.
- International Symposium on Organic Matter Dynamics in Agro-Ecosystems, University of Poitiers, France, July 16-19, 2007.
- Annual meeting, Japanese Society of Soil Science and Plant Nutrition, Kochi, Japan, 2005.
- Annual meeting, Shikoku Crop Science, Kochi University, 2004, Japan.
- Annual meeting, Japanese Soc. Soil Sci. Plant Nutrition, Kyoto University, 2004, Japan.
- International conference on advanced rice research, 2003, Egypt.
- Annual meeting, Japanese Society of Soil Science and Plant Nutrition, Nagoua University,

2002, Japan.

- Annual meeting, Japanese Society of Clay Sciences, Saitama University, 2001, Japan.
- Annual meeting, Japanese Society of Clay Sciences, Hokkaido University, 2000, Japan
- International conference on the Change on Global Climatic, Yamaguishi University, Japan, 1999.

Participation in Workshops

- Regional Outreach event on the International Panel on Climate Change (IPCC) Activities and Find 19-20- Sep., 2017.
- Workshop on (Global trends of contaminated urban soils: causes, impacts, assessment).
- Workshop on (Overview on research projects in the fields of soil protection and soil clean-up).
- Workshop on (Challenges to environment protection: Remediation of contaminated urban soils).
- Certificate of Attendance Personal Response Systems (Clickers), Center for Excellence in Learning & Teaching, King Saud University, January, 17, 2016.
- Certificate of Attendance "Fundamentals of Remote Sensing", 2016 Remote Sensing Conference, Riyadh Intercontinental Hotel, Saudi Arabia, 15th January, 2016.
- Certificate of Attendance "Remote Sensing & Image Processing with ERADS IMAGINE" 2016 Remote Sensing Conference, Riyadh Intercontinental Hotel, Saudi Arabia, 16th January, 2016.
- Workshop on "Research Workshop on Nanotechnology & Its Applications" April 16, 2015 organized by Deanship of Scientific Research, King Saud University, Riyadh, Saudi Arabia.
- Workshop on "Wetland monitoring in the Kingdom of Saudi Arabia: an assessment tool of global changes". King Saudi University, 21/12/2015.
- Learning Management System – Deanship of E-learning and distance learning – King Saud University.
- Certificate of Participation on (DEGRUYTER Training Course) Deanship of Scientific Research, King Saud University in cooperation with Saudi digital Library, Riyadh, 15 November, 2015.
- The 2nd Saudi International Conference on Scientific Publishing 2015, KSU, 11-13, October 2015.
- Certificate of Participation in activating the partnership between universities and the private sector in scientific research. Deanship of Scientific Research, King Saud University, Riyadh, 28-29 October, 2015.
- The 30th Meeting of Saudi Biological Society: Economic of the Red Sea and their development 7-9 April, 2015, Hosted by University of Tabuk, Tabuk.
- The 29th Meeting of Saudi Biological Society: Environment and Development in the Gulf Region 25-27 February, 2014, Hosted by University of Dammam, Dammam.
- Certificate of Participation (Eleventh International Geological Conference), Saudi Society for Geosciences, King Saud University, Riyadh, 12-14 May, 2015.
- Certificate of Participation (The 2nd Saudi International Conference on Scientific Publishing. King Saud University, Riyadh, 11-13 October, 2015.
- The 3rd Saudi International Conference on Advanced Materials Technology 2015. King Abdulaziz City for Science and Technology (KACST), Riyadh, may18-19, 2015.

- 3rd International Symposium on Chemical and Biological Safety workshop certificate offered by The United States Environmental Protection Agency, Washington, DC, USA and King Saud University, Riyadh, Saudi Arabia, May 12-14, 2015.
- Certificate of Participation "3rd Series of Lectures in Sustainable Energy". Sustainable Energy Technologies Center, King Saud University, Riyadh, Saudi Arabia, April – May, 2015.
- Use and Application of Risk Assessment for Air and Soil Chemical Contamination. Training workshop offered by United States Environmental Protection Agency (USEPA), May 13, 2015.
- Chemical and Microbial Risk Assessment of Water and Food Contamination. Training workshop offered by United States Environmental Protection Agency (USEPA), May 14, 2015.
- The 3ed Saudi International Petrochemical Technologies Conference 2015. King Abdulaziz City for Science and Technology (KACST). Riyadh, Saudi Arabia 5-6 May, 2015.
- Chemical Safety Assessment Applied to Hazardous Air Pollutants: Data, Approach and Communication. Training workshop offered by United States Environmental Protection Agency (USEPA), May 12, 2015.
- Chemical and Biological Risk Assessment of Skin Care Products-OECD approved Reconstructed Human Epidemics Models. Training workshop offered by United States Environmental Protection Agency (USEPA), May 12, 2015.
- Advances in Risk Assessment relative to Food and water. United States Environmental Protection Agency (USEPA), May 12, 2015.
- Guidelines on Chemical Safety. Training workshop offered by United States Environmental Protection Agency (USEPA), May 12, 2015.
- Workshop on Principles of translation in academia. King Saudi University, 9/12/2014.
- Workshop on "Towards Distinguished Outcomes for the National Plan Projects" March 2, 2013, organized by King Saud University in collaboration with King Abdulaziz City for Science and Technology (KACST), Riyadh, Saudi Arabia.

Participation in Training Courses

- Certificate of "Provision of Quality Management System (KSU-QMS)". Deanship of Skills Development, King Saudi University, 26-27/04/2015.
- Professional Writing in Higher Education: Submitting, Publishing, Editing and Reviewing. Deanship of Skills Development, King Saudi University, 15-4/2015.
- The Scholarship of Education Leadership in Higher Education Certificate. Deanship of Skills Development, King Saudi University, Riyadh, Saudi Arabia, February, 2, 2015 for a total 5 training hours.
- Thinking and Teaching Certificate. Deanship of Skills Development, King Saudi University, Riyadh, Saudi Arabia, December 17, 2014 for a total 10 training hours.
- The role of precision farming applications in sustainable crop production. King Saudi University, Riyadh, Saudi Arabia, 3, December, 2014.
- Monitoring of POPs in Environmental samples. Colleague of Food and Agricultural Sciences, King Saudi University, December, 3, 2014.
- Securing research leadership through Open Access publishing, The vice Rectorate for Graduate Studies and Scientific Research, King Saudi University, Riyadh, Saudi Arabia,

26-27 November, 2014.

- References Citation and Writing Software Training Certificate. Deanship of Skills Development, King Saudi University, 23-24 April, 2014.
- Smart Classrooms Training Certificate. Deanship of Skills Development, King Saudi University, 30 March, 2014.
- Research Projects and Grants Proposals Writing Certificate. Deanship of Skills Development, King Saudi University, 19-20 Feb., 2014.
- Searching Skills in Electronic Information Resources. Translation Center in cooperation with the Deanship of Library Affairs, King Saudi University, 19-20 Sep., 2014.
- International Rice Cultivation Technology course for International Researchers. Organized by Japan International Cooperation Agency (**JICA),** from January 11- November 8, 1996.
- Rice Breeding and Seed Production Training Course at Field Crops Institute, Agricultural Research Center, Egypt.
- FAO Rice Conference and the International Rice Commission (IRC), which works within the framework of FAO, USAID (United States Agency for International Development), which funded the Rice Research and Training Project.
- Research Staff member provide regional training programs for African subject matter specialists. This program supported by JICA, Japan.

Scientific Societies and Councils

- Member of the Department of Soil Science (2011- present).
- Member of the Scientific Committee of the Conference on the 29th Meeting of Saudi Biological Society: Environment and Development in the Gulf Region, 2014, Hosted by University of Dammam, Dammam.
- Member of the Scientific Committee of the Conference of environmental technologies (2014), Riyadh, King Abdul-Aziz City for Science and Technology.
- A member of the 3rd International Symposium on Chemical and Biological Safety workshop offered by The United States Environmental Protection Agency, Washington, DC, USA and King Saud University, Riyadh, Saudi Arabia, 2015.
- Member of the Chemical and Biological Risk Assessment of Skin Care Products-OECD approved Reconstructed Human Epidemics Models. Training workshop offered by United States Environmental Protection Agency (USEPA), 2015.
- Member of the advances in risk assessment relative to Food and water workshop. United States Environmental Protection Agency (USEPA), 2015.
- Member of academic research team of the soil research Unit, Agricultural research Center
- Chairman of soil fertility and plant nutrition laboratory, rice research and training center.

Service as Reviewer

Journals

1. Journal of the Saudi Society of Agricultural Sciences, ISSN: 1658-077X, Elsevier B.V.
2. Journal of Agricultural Science and Technology (JAST), ISSN (Print: 1680-7073, Online: 2345-3737.
3. Agrochimica Journal, ISSN: 0002-1857.

4. Tight collaborator with the Deanship of Scientific Research, King Saudi University in arbitration books and scientific research (2011- present).

University Service

1) Participation in establishment of Soil Fertility and Plant nutrition laboratories (under Supervision of Prof. Abdullah Modahish, Department of Soil, College of Food and Agricultural Sciences, King Saud University, Riyadh 11451, Saudi Arabia (2011 – till now).
1) Membership of "Master of Soil Sciences Committee; Department of Soil, College of Food and Agricultural Sciences, King Saud University, Riyadh 11451, Saudi Arabia (2011 – till now).

International Collaboration

Dr. Adel Ghoneim coordinates the international collaboration with some international universities via joint projects, publications, and presenting lectures such as:
1) Ehime university, Matsuyama, Japan.
2) University Sains Malaysia.
3) Japan International Research Center for Agricultural Sciences (JIRCAS), Japan.

References

- Professor Dr. HENMI Teruo, Department of Applied Chemistry for Industrial Applications, Ehime University, 3-5-7 Tarumi, Matsuyama, 790-8566, JAPAN, Email: henmi@agr.ehime-u.ac.jp
- Professor Dr. Takashi WATANABE, Japan International Research Center for agricultural Sciences (JIRCAS), Tsukuba 305-8686, JAPAN.
- Professor Hideto UENO, Soil Fertility, Ehime University, Japan, Email: uenoh@agr.ehime-u.ac.jp

List of Publications

- **M.Sc**.: Effect of submergence on some physical, chemical and biological changes of some north delta soils as well as yield and yield components of rice plants. Tanta University, Egypt, 1996.
- **Ph.D**.: Reaction of nano-ball allophone with zinc and copper and its mechanism by molecular orbital method. United Graduate School of Agricultural Sciences, Ehime University, 2002. **Japan**.
- **A. M. Ghoneim,** O.I. Elbassir, A.S. Modahish & M.O. Mahjoub (2017). Compost production from olive tree pruning wastes enriched with phosphate rock. Compost Science & Utilization, 25:1, 13-21. http://dx.doi.org/10.1080/1065657X.2016.1171737.
- A. S. Modaihsh, **A. M. Ghoneim**, M.O. Mahjoub, M. E. Nadeem, F. N. Al-Barakah (2017). Characterizations of deposited dust fallout in Riyadh city, Saudi Arabia. Polish J. of

Environmental Studies, 26(4):1599-1605.
http://www.pjoes.com/pdf/26.4/Pol.J.Environ.Stud.Vol.26.No.4.1599-1605.pdf

- Hafeez Ur Rehman, Shahzad M.A. Basra, Mostafa M. Rady, **Adel M. Ghoneim** and Qian Wang (2017). Moringa leaf extract improves wheat growth and productivity by affecting senescence and source-sink relationship. International Journal of Agriculture & Biology, 19(3): 479–484. DOI: 10.17957/IJAB/15.0316. http://www.fspublishers.org/published_papers/31601_..pdf.
- Adel Mohamed Ghoneim*, Saud AL–Oud (2017). Lead Transport in Soils Amended with Municipal Solid Waste Ash. Polish J. of Environmental Studies (in press).
- Mahmoud, E. K. and **Ghoneim, A. M**. (2016). Effect of polluted water on soil and plant contamination by heavy metals in El-Mahla El-Kobra, Egypt. Solid Earth, 7(2):703-711, doi:10.5194/se-7-703-2016. http://www.solid-earth.net/7/703/2016/.
- Amir Zaman Khan , H. Muhammad, S. K. Khalil, **A. M. Ghoneim**, S.Wahab, Z. Shah, H. Akbar, A. Muhammad. (2016). Field Evaluation of Effective microorganisms (EM) with Organic and In-organic N Sources on Growth, Yield and Nutrient Concentration in Wheat. Journal of Animal and Plant Sciences 26(2):125-132.
- Abdulwahed M Aboukarima, **Adel M Ghoneim** and Mohamed S ElMarazky (2016). Employing of regression analysis for prediction of sodium adsorption ratio of a soil. International Journal of Applied Research, 2(11): 44-48.

- **Adel Mohamed Ghoneim** (2016). Effect of different methods of Zn application on rice growth, yield and nutrients dynamics in plant and soil. Journal of Agriculture and Ecology Research International, 6(2):1-9. DOI : 10.9734/JAERI/2016/22607.
- Roohul, A., Amir Z. Khan, A. Muhammad , S.K.Khail, H.Gul, G.Daraz, H. Akbar, **A.M. Ghoneim (**2016). Influence of Seed Hardening techniques on Vigor, Growth and Yield of wheat under drought conditions. Journal of Agricultural Studies, 4(3):121-132.
- Abdullah S. Modaihsh, Mohamed O. Mahjoub, Mahmoud E. A. Nadeem, **Adel M. Ghoneim**, Fahd N. Al-Barakah. (2016). The air quality, Characterization of polycyclic aromatic hydrocarbon, Organic carbon, and Diurnal Variation of Particulate matter over Riyadh City. Journal of Environmental Protection, 7:1198-1209. http://www.scirp.org/jouRNAl/PaperInformation.aspx?PaperID=70119.
- Abdulwahed M. Aboukarima, Mohamed S. El-Marazky, **Adel M. Ghoneim** and Azza I. Ebid (2016). Modelling of Sodium Adsorption Ratio of the Soil Using Adaptive Neuro Fuzzy Inference system. Journal of Experimental Agriculture International, 14(2): 1-12.

- Abdullah S. Modaihsh, Mohamed O. Mahjoub, Abdelazeem Sh. Sallam, **Adel M. Ghoneim** (2015). Evaluation of Soil Degradation In Al-Kharj Centre, Saudi Arabia Using Remote Sensing. International Journal of Remote Sensing & Geoscience, 4(5): 1-7. http://www.ijrsg.com/Files/244390ff-5d1b-4499-809e-0a66a07d7e66_IJRSG_21_01.pdf.
- EL-Refaee, I.S.; **A.M. Ghoneim**; and W.H. El-Kallawy (2014). Rice grain yield and water productivity as influenced by N-fertilizer and compost under flooded and non-flooded conditions. Egypt J. Agric. Res., 93, 2(B): 567-583.
- AL–Oud, S. S., **Adel. M. Ghoneim**, M. A. Nadeem, and S. Al Harbi (2015). Application

efficiency of Clinoptilolite natural zeolite for Pb^{2+} and Cu^{2+} removal from Wastewater. Wulfenia Journal, 22(2): 317-332. https://www.researchgate.net/publication/309194571_Application_efficiency_of_Clinoptilolite_natural_zeolite_for_Pb2_and_Cu2_removal_from_Wastewater.

- **Adel Mohamed Ghoneim** and Azza Ibrahim Ebid (2015). Combined Effects of Soil Water Regimes and Rice Straw Incorporation into the Soil on ^{15}N, P, K Uptake, Rice Yield and Selected Soil Properties. International Journal of Plant & Soil Science 5(6): 339-349. DOI: 10.9734/IJPSS/2015/15472.
- Abdulwahed M. Aboukarima1, **Adel M. Ghoneim** and Mohamed S. El-Marazky (2016). Predicting Sodium Adsorption Ratio by Regression Analysis Using pH, EC and Soil Texture Index Data. Ninth Conference of the Saudi Society of Agricultural Sciences, KSU, Riyadh, 3-4 January, 2016.
- Abdulla S. Modaihsh, Abdelazeem Sh. Sallam, **Adel M. Ghoneim** and Mohamed O. Mahjoub (2014). Assessing salt-affected degraded soils using remote sensing. Case study: Al-Qassim region, Saudi Arabia. Journal of Food, Agriculture& Environment.Vol. 12 (3&4): 383-388. http://world-food.net/download/journals/2014-issue_3_and_4/2014-issue_3_and_4-environment/e15.pdf.
- **Adel, M. Ghoneim**, Awais Ahmad, Muhammad Afzal and Azza Ebid (2015). Effect of NaCl Induced Stress on Germination and Seedling Growth of various Oryza sativa L. Genotypes. Advances in Research, 5(2):1-8, DOI: 10.9734/AIR/2015/16740.
- Abdulla S. Modaihsh, **Adel M. Ghoneim**, Abdelazeem Sh. Sallam and Mohamed O. Mahjoub (2014). Soil Salinity, sand encroachment and erosion as indicators of land degradation in Harad center, Saudi Arabia. Journal of Remote Sensing and GIS, 2(1): 11-15.Publisher, Manchester, UK.
- **Adel Mohamed Ghoneim** (2014). Nitrogen and carbon uptake by some Rice cultivars from $^{15}NH_4Cl$ and ^{13}C-U-glucose labeling fertilizer. International Journal of Agronomy and Agricultural Research, 4 (4): 20-27.
- **Adel, M. Ghoneim**, Soud, S. Al-Zahrani, Sallem, E. El-Maghraby & Abdullah, S. Al-Farraj (2014). Heavy Metals Accumulation in *Rhazya stricta* L. Plant Growing on Industrial Wastewater of Riyadh city, Saudi Arabia. Journal of Applied Sciences, 14 (17), 2007-2010.
- **Adel M. Ghoneim**, Soud S. Al-Zahrani, Salem E. El-Maghraby and Abdullah S. Al-Farraj (2014). Heavy metal distribution in Fagonia indica and Cenchrus ciliaris native vegetation plant species. Journal of Food, Agriculture & Environment,12 (3&4): 320-324. **(**ISI, impact factor: 0.539).
- Suliman O. Al-Mutairi, **Adel M. Ghoneim**, AbdullaS. Al-Modaihsh, and Mohammed O. Mahjoub and Y.A. Reda (2014). Characterization and Composting of Municipal Solid Waste of Riyadh City, Saudi Arabia. **Book Chapter** In: Waste Management and Environment VII. WIT Transactions on Ecology and the Environment Editor(s) C.A. Brebbia, Wessex Institute of Technology, UK; pp: 283-292, WIT Press, Ashurst Lodge, Ashurst, Southmpton, UK.
- **Adel Mohamed Ghoneim** and Azza Ibrahim Ebid (2014). Impact of rice-straw biochar on some selected soil properties and rice (*ORYZA SATIVA* L) grain yield. International Journal of Agronomy and Agricultural Research, 3(4): 14-22.
- Mansour Alhawas, Mohamed Alwabel, **Adel Ghoneim**, Abdullah Alfarraj, Abdelazeem Sallam (2013). Removal of nickel from aqueous solution by low-cost clay adsorbents. Proceedings of the International Academy of Ecology and Environmental Sciences, 3(2): 160-169.
- **Adel Ghoneim**, Abdulla Al-Modaihsh, Saied Naeem, Tamer Metwally, Elsaied Gewailly, Azza Ebid (2014). Examination of nitrification inhibition by sorghum (*Sorghum bicolor*) in soil

around its roots. Proceedings of the International Academy of Ecology and Environmental Sciences, 2014, 4(1): 30-38.

- Muhammad Afzal, Awais Ahmad, Ali Abdullah Alderfasi, **Adel Ghoneim**, Mohammad Saqib (2014). Physiological tolerance and cation accumulation of different genotypes of *Capsicum annum* under varying salinity stress. Proceedings of the International Academy of Ecology and Environmental Sciences, 2014, 4(1): 39-49.
- Al-Rohily, Khalid, M., **A. M. Ghoneim**, A. S. Modaihsh and M. O. Mahjoub, (2013). Phosphorus Availability in Calcareous Soil Amend with Chemical P Fertilizer, Cattle Manure Compost and Sludge Manure. International Journal of Soil Science, 8 (1): 17-24.
- S. F. Al Harbi, **A. M. Ghoneim**, A. S. Modaihsh and M. O. Mahjoub, (2013). Effect of Foliar and soil Application of Phosphorus on Phosphorus Uptake, use Efficiency and Wheat Grain Yield in Calcareous Soil. Journal of Applied Sciences, 13(1): 188-192.
- **Adel Mohamed Ghoneim**, Hideto Ueno, Naomi Asagi and Takeshi Watanabe, (2012). Indirect ^{15}N Isotope Techniques for Estimating N Dynamics and N Uptake by Rice from Poultry Manure and Sewage Sludge. Asian Journal of Earth Sciences, 5 (2): 63-69. DOI: 10.3923/ajes.2012.63.69.
- **Ghoneim, A**. (2008). Impact of ^{15}N-labeled rice straw and rice straw compost application on N mineralization and N uptake by rice. International Journal of Plant Production, 2 (4): 289-296.
- **Ghoneim, A**. (2008) Nitrogen dynamics and fertilizer use efficiency in rice using the nitrogen-^{15} isotope techniques. World Applied Sciences Journal, 3 (6): 869-874.
- A. Ebid, H. Ueno, **A. Ghoneim** and N. Asagi (2008). Recovery of ^{15}N derived from rice residues and inorganic fertilizers incorporated in soil cultivated with Japanese and Egyptian rice cultivars. Journal of Applied Sciences, 8 (18): 3261- 3266.
- Azza Ebid, Hideto Ueno, Adel Ghoneim & Naomi Asagi. (2008) .Nitrogen Uptake by Radish, Spinach and "Chingensai" from Composted Tea Leaves, Coffee Waste and Kitchen Garbage. Compost Science & Utilization, 16:3, 152-158. DOI: 10.1080/1065657X.2008.10702373.

http://dx.doi.org/10.1080/1065657X.2008.10702373.

- Azza Ebid, Hideto Ueno, **Ghoneim, A**. and Naomi Asagi (2008). Uptake of carbon and nitrogen derived from carbon-13 and nitrogen-15 dual-labeled maize residue compost applied to radish, komatsuna, and chingensai for three consecutive croppings. Plant Soil, 304: 241−248. http://www.jstor.org/stable/42951823.
- **Ghoneim, A**. (2007). Effect of nitrogen supplied from poultry manure and sewage sludge on the growth, yield and nitrogen uptake of rice. Bull. Exp. Farm Fac. Agr., Ehime Univ. 29: 11−16 (with abstract in Japanese translation).
- Ebid, A., Ueno, H., **Ghoneim, A**. and Asagi, N. (2007). Effect of maize residue compost application on growth, yield, and some soil properties. Bull. Exp. Farm Fac. Agr., Ehime Univ. 29: 1−10 (with abstract in Japanese translation).
- Azza Ebid, Hideto Ueno, and **Ghoneim, A**. (2007). Nitrogen mineralization kinetics and nutrient availability in soil amended with composted tea leaves, coffee waste, and kitchen garbage. International Journal of Soil Science, 2 (2): 96−106. Academic Journals, USA.
- Azza Ebid, Hideto Ueno and Ghoneim, A. (2007). Impact of rice residues application on rice growth, yield and some paddy soil properties. International Journal of Agricultural Research, 2 (12): 1030−1036.
- **Ghoneim, A**., Matsue, N., Ebid, A., and Henmi, T. (2007). Charge characteristics of nano-ball allophane as affected by zinc adsorption. Journal of Applied Sciences, 7 (1): 103−108.

- **Ghoneim, A**., Naoto Matsue, Azza Ebid, and Henmi, T. (2007) Change in surface acidity on nano-ball allophane upon zinc adsorption and its mechanisms. Research Journal of Environmental Sciences, 1 (2): 64−70.
- Azza Ebid, Hideto Ueno, **Ghoneim, A**. and Naomi Asagi (2007). Uptake of carbon and nitrogen through rice root from ^{13}C and ^{15}N dual-labeled maize residue compost. International Journal of Biological Chemistry, 1 (2): 75−83.
- **Ghoneim, A**., Matsue, N., and Henmi, T. (2006). Effect of copper adsorption on some charge characteristics of nano-ball allophone. International Journal of Soil Science, 1 (3): 243−250, Academic Journals, USA.
- **Ghoneim, A**., Matsue, N., and Henmi, T. (2002). Adsorption mechanisms of copper and zinc on nano-ball allophane. Clay Science, 11 (6): 615−624, Clay Science Society of Japan.
- **Ghoneim, A**., Matsue, N., and Henmi, T. (2001). Zinc adsorption on nano-ball allophanes with different Si/Al ratios. Clay Science, 11 (4): 337−348, Clay Science Society of Japan.
- Alhawas, M., A. Sh.Sallam; **A. M. Ghoneim**; S. Al Mgharby and M. I. Al-Wabel (2012). Application of Saudi Arabian Natural Clay Deposits for Nickel Removal. The 27 Meeting of the Saudi Biological Society proceedings. Jazan University, Saudi Arabia.
- Abdullah Saad Modaihsh and **Adel Mohamed Ghoneim** (2013). Examination of Nitrification Inhibition by Sorghum (*Sorghum Bicolor*) in Soil around its Roots. The ^{28}th Meeting of the Saudi Biological Society proceedings. Hail University, Saudi Arabia.
- **Adel Ghoneim**, Watanabe, T., Ishikawu, T. and Ito, O., (2009). Biological nitrification inhibition in soil cultivated with sorghum. Japanese Society of Soil Science and Plant Nutrition, Kyoto, Japan, P.69.
- Ebid, A., Ueno, H., and **Ghoneim, A**. (2008). Dynamics of carbon and nitrogen derived from ^{13}C and ^{15}N dual-labeled compost in continuously application in a vegetables soil. Egypt-Japan International Symposium on Science and Technology (EJISST 2008), Waseda University, Tokyo, Japan.
- Ghoneim, A. (2008). Indirect ^{15}N isotope techniques for estimating rice N uptake from poultry manure and sewage sludge. International Symposium on Science and Technology, Tokyo, Japan, 2008.
- Ebid, A., Ueno, H., **Ghoneim, A**. and Asagi, N. (2007). Organic carbon and nitrogen uptake by roots of rice and vegetables, grown in soils applied with ^{13}C and ^{15}N dual-labeled maize residue compost. International Symposium on Organic Matter Dynamics in Agro-Ecosystems, University of Poitiers, France, p.368.
- Ebid, A., Ueno, H., and **Ghoneim, A**. (2005). Fate of carbon and nitrogen in rice paddy soil applied with ^{13}C and ^{15}N dual-labeled corn compost. Abstracts of the annual meeting, Japanese Society of Soil Science and Plant Nutrition. Vol. 51, p. 116.
- Ebid, A., Ueno, H., and **Ghoneim, A.** (2004). Carbon and nitrogen uptake by rice plant grown in a paddy soil amended with ^{13}C and ^{15}N dual-labeled corn compost. Shikoku Journal of Crop Science, Vol. 41, p. 38−39.
- Ebid, A., Ueno, H., and **Ghoneim, A.** (2004). Nitrogen dynamics in vegetables growing soils applied with tea leaf, coffee and kitchen composts by ^{15}N isotope dilution method. Kyoto, December, Kansai Branch Meeting, Japanese Soc. Soil Sci. Plant Nutr. Abstract, pp 30. Abstracts of the annual meeting, Japanese Society of Soil Science and Plant Nutrition. Vol. 51, p. 293.
- **Ghoneim, A**., Ueno, H., and Ebid, A. (2004). Nutrients dynamics in Komatsuna growing soil fertilized with biogas slurry by ^{15}N dilution method. Japanese Society Soil Sci. Plant Nutr. December, Kansai Branch Meeting, Abstract, pp 31. Abstracts of the annual meeting, Japanese

Society of Soil Science and Plant Nutrition. Vol. 51, p. 293.

- **Ghoneim, A**., Ueno, H., and Ebid, A. (2004). Effects of biogas slurry on growth and yield of paddy rice and nitrogen dynamics in soil. Nangoku, November, Shikoku Journal of Crop Science, 41, p. 36−37. Extended Abstract.
- Ghoneim, A., Matsue, N., and Henmi, T. (2002). Effect of zinc adsorption on some surface charge characteristics of nano-ball allophone. Abstracts of the annual meeting, Japanese Society of Soil Science and Plant Nutrition. Vol. 48, Nagoua, Japan, (Abstract: 18).
- **Ghoneim, A**., Matsue, N., and Henmi, T. (2001). Adsorption of some heavy metals on nano-ball allophone. Japanese Society of Clay Science, Vol. 45, p. 102−103, Saitama, Japan, (Extended Abstract).
- **Ghoneim, A**., Matsue, N., and Henmi, T. (2001). Adsorption of copper on nano-ball allophone. Abstracts of the annual meeting, Japanese Society of Soil Science and Plant Nutrition. Kochi, Japan, Vol. 47, p. 25. Ghoneim, A., Matsue, N., and Henmi, T. (2000). Adsorption of zinc on nano-ball allophone. Japanese Society of Clay Science, Hokkaido, Japan, (Extended Abstract).
- Ghanem, S.A., Ali, R.A., Rezk, M.M. and **Ghoneim, A**., (1998). Influence of seasonal flooding period and the application of zinc, iron and manganese on the availability of applied phosphorus, growth and yield of rice. Egypt Journal of Agricultural Research 175−190.
- **Ghoneim, A. M. A**. (1996). Effect of phosphorus and zinc application on yield and yield components of paddy rice. Bulletin of Tsukuba International Centre, JICA, Japan, 13−27.