{ السـيرة الذاتيـة }

الأستاذ الدكتور/ عبدرب الرسول موسى العمران

* الاسم بالكامل: **د.عبدرب الرسول بن موسى العمران**
* الوظيفة المهنة: **أستاذعلوم التربة والمياه بكلية علوم الأغذية الملك سعود**
* **التخصص الرئيسي: علوم تربة- فيزياء تربة وعلاقات مائية**
  التخصص الفرعي: هندسة زراعية - ري وصرف
* تاريخ الميلاد : **١٣٧٢هـ - ١٩٥٣م الإحساء**
* المؤهلات والشهادات الحاصل عليها :

رقم	المؤهـل	تاريخه	مكان الحصول عليه
١	الثانـــوي	١٣٩١هـ	ثانوية الهفوف - الإحســاء
٢	بكالوريوس علوم زراعية مع مرتبة الشرف الثانية	١٣٩٥هـ	جامعة الملك سعود (الرياض سابقاً) بالرياض
٣	ماجستير "علوم الميـاه"	١٣٩٧هـ	جامعة كاليفورنيا - ديفز- أمريكا
٤	دكتوراه علوم التربــة	١٤٠٤هـ	جامعة ولاية أوريجون-كرفاليس - أمريكا

العنــوان: قسم علوم التربة /كلية علوم الأغذية و الزراعة / جامعة الملك سعود

ص٠ ب : ٢٤٦٠- الرياض: ١١٤٥١

المملكة العربية السعوديــة

ت : ٤٦٧٨٤٤٤

جوال ٠٥٠٥٩٢٧٨٥٥

Email: rasoul@ksu.edu.sa

الجمعيات العلميـة:

* الجمعية السعودية للعلوم الزراعية
* الجمعية الأمريكية للمحاصيل
* الجمعية الأمريكية لعلوم التربة
* الجمعية الامريكية لحماية التربة و المياه

المناصب الإداريـــة:

* مدير مركز البحوث الزراعية بالكلية ١٤٠٨/١/١١هـ - ١٤١٠/١/١٠هـ
* رائد النشاط الرياضي بالكليـــة ١٤٠٥هـ - ١٤٠٧هـ.
* عضو هيئة تحرير المجلة العلمية بجامعة الملك سعود (العلوم الزراعية) منذ الفصل الدراسي الثاني ١٤١٥/١٤١٦هـ وحتى الفصل الثاني ١٤١٩/١٤٢٠ هـ .
- عضو مجلس الكلية للعام الدراسي ١٤٢٠/١٤٢١ هـ.
* عضو لجنة الدراسات العليا بالكلية ١٤٢٠/١٤٢١-١٤٢٢/١٤٢٣ هـ.
- مقرر لجنة الدراسات العلبا بالكلية منذ ١٤٢١/١٤٢٢-١٤٢٢/١٤٢٣ هـ.
- ممثل الكلية في عمادة الدراسات العليا منذ ١٤٢١/١-١٤٢٢/١٤٢٣ ٤٢٢ هـ
- مقرر لجنة المياه بالكلية لعدة سنوات
- رئيس هيئة تحرير المجلة العلمية للجمعية السعودية للعلوم الزراعية منذ ١٤٢٣ هـ و حتى الان
- عضو هيئة التحرير في مجلة Arid Land Research and Management الامريكية(٢٠٠٣- وحتى الان
- عضو في هيئة التحرير في مجلة الامريكية Agricultural Sciences منذ ٢٠١١
- مستشار غير متفرغ بوزارة المياه و الكهرباء ١٤٢٤/٣/١٥ هـ -١٤٢٥/٣/١٤هـ
- عضو لجنة الخطط الدراسية بالكلية منذ ١٤٢٧/١٢/١٧ هـ
- عضو لجنة الخطة الاستراتجية بالكلية منذ ١٤٣٠/١/٢٢ هـ
- عضو لجنة التعليم التعاوني بالكلية منذ ١٤٣٠/١/٢٢ هـ

المقررات الدراسية:

٣٦٣ عتر علاقات التربة و النبات بالماء

٥٢٧ عتر صلاحية المياه للري

٥٢٤ عمب تلوث المياه

الاهتمامات البحثية:

- ترشيد المياه
- نوعية المياه
- المحافظة على التربة

التسلسل الوظيفـــي:

** أستاذ ١٤١٣/١١/١٢هـ حتى الان*
** أستاذ مشارك ١٤٠٩/٧/٢٢هـ - ١٤١٣/١١/١١هـ*
** أستاذ مساعد ١٤٠٤/١٢/١٧هـ - ١٤٠٩/٧/٢١هـ*

أنشطـة علميـــة :

**١٤١٠هـ - ١٤١١هـ سنة تفرغ علمي بجامعة كاليفورنيـــا -ديفز بأمريكا مع الدكتور/ نليسون في مجال التغيرات المكانية لبعض الخواص الطبيعية للتربة.*

- *حضور العديـــد من المؤتمرات والندوات العلمية في مجالات المياه والتصحر خارج وداخل المملكة .*
- *أحد اعضاء الفريق البحثي للدارسة المعنونة " المياه و الزراعة – الواقع و المستقبل" ١٤١٥هـ*
- *الباحث الرئيس في مشروع بعنوان" ترشيد مياه الري باستخدام محسنات التربة الطبيعية و الصناعية في المملكة العربية السعودية" تمويل مدينة الملك عبدالعزيز للعلوم و التقنية. (١٤٢٢/٨/١ - ١٤٢٥/٧/٣٠ هـ).*
- *باحث مشارك في مشروع بعنوان" تطوير نموذج لتقدير الاحتياجات المائية لترشيد مياه الري في المملكة العربية السعودية" تمويل مدينة الملك عبدالعزيز للعلوم و التقنية (١٤٢١/١١/٢٣-١٤٢٣/١١/٢٢ هـ).*
- *الباحث الرئيس في مشروع بعنوان "ترشيد مياه الري ونظم ادارة التربة بالزراعة المكثفة في المملكة العربية السعودية" تمويل مدينة الملك عبدالعزيز للعلوم والتقنية(٢٠٠٥-٢٠٠٧م)*
- *باحث مشارك في مشروع بعنوان " المياه الرمادية و استعمالتها في المملكة"١٤٢٧هـ.*

الكتب:

- *تاليف كتاب بعنوان " الاحتياجات المائية للري والترشيد"٢٠٠٨م ادارة النشر- جامعة الملك سعود.*

- *تأليف كتاب بعنوان جودة مياه الري وطرق تحليلها"١١ ٢٠١١م ادارة النشر بجامعة الملك سعود .*
- *فصل بكتاب عن محسنات التربة باللغة الانجليزية.*
- *فصل بكتاب عن الاحتياجات المائية للنخيل باللغة الانجليزية.*
- *ترجمة كتاب عن نوعية مياه الري المستخدمة في المسطحات الخضراء. ٢٠١٢م.*

الإشـــراف علـى الرســـائـــــل:

** المساعدة في الإشراف على رسالة ماجستير بعنوان :*

" التغيرات المكانية لبعض الخواص الطبيعية للأراضي الجيرية في المملكة "

حيث إستكملت ١٤٠٩هـ

** المساعدة في الإشراف على رسالة ماجستير بعنوان:*

" تأثير محسن جيلاتيني على كفاءة إستخدام المياه ونمو النبات في الترب الرملية ١٤١٥ هـ.

** الاشراف على رسالة ماجستير بعنوان:*

تأثير حمأة الصرف الصحي على الخواص الفيزيائية وحركة بعض العناصر الثقيلة في الترب الجيرية"

١٤١٤ – ١٤١٥هـ .

- *الاشراف على رسالة الماجستير بعنوان :*
- *تقويم نوعية مياه الري و أثرها على معدل التسرب المائي للتربة في منطقة الرياض (١٤٢٣ هـ).*
- *الاشراف على رسالة الماجستير بعنوان :*
- *تأثير مستويات الري و عمق المنقطات على توزيع الرطوبة و الملوحة في التربة وكفاءة استخدام المياه لنبات الطماطم (١٤٢٦هـ)*
- *ألاشراف على العديد من مشاريع التخرج لطلبة ماجستير علوم البيئة في مجال تلوث المياه و التربة.*

* تم تحكيم عدد من الرسائل من الجامعة وخارجها(باكستان و عمان)

الأبحـــاث العلميـــة:

- أنظر البيان المرفق طيــه لاكثر من ٧٠ بحثا.

CURRICULUM VITAE OF
A. RASOUL MOSA AL-OMRAN

TITLE Professor
Office Address Department of Soil Science
College of Food Agricultural Sciences
King Saud University
P.O. Box 2460
Riyadh, 11451
Saudi Arabia
Mobile 0505927855
Office Telephone 4678444
Home Telephone 4683462
Fax 4678440
E-mail Rasoul@KSU. Edu.SA

Degrees B.S. College of Agriculture, K.S.U. 1975. Saudi Arabia
M.Sc. University of California at Davis, 1979, in Water Science (Irrigation) U.S.A.
Ph.D Oregon State University, Corvallis, 1984, Soil Science, U.S.A.

Major Field Soil Science (soil physics)
Minor Field Agricultural Engineering (Irrigation)

Professional Societies American Society of Agronomy
Soil Science Society of America
Saudi Society for Agricultural Sciences

Administrative Positions Director of Agricultural Research Center at the College of Agric. 1988-1990.

Editor in-chief of the Journal of the Saudi Society of Agricultural Sciences (2002- present)

Member of the Editorial Board of the Arid Land Research and Management, USA (2003-

1993- present Professor of Soil Science
1989-1993 Associate Professor
1984-1989 Assistance Professor
1990-1991 Sabbatical leave at University of California at Davis working with Prof. D.R. Nielsen in Geostatistical analysis of soil properties.

Publications

1- Over 75 published articles in national and international journal and a chapter in Soil Conditioner Handbook.

Current Research:

1- The use of clay deposits in irrigation water conservation
2- Surface and subsurface drip irrigation and water conservation
3- Evaluation of water quality and its effect on soil infiltration in Riyadh region
4- Infiltration in a calcareous sandy soil as affected by natural clay deposits
5- Crop water requirements

Funded Research

1- Co-investigator in project funded by KACST entitled " Development of Irrigation water requirements model for water conservation in the kingdom of Saudi Arabia (2001-2003)
2- Principal investigator in project funded by KACST entitled " Conservation of irrigation water in Saudi Arabia using natural and synthetic soil conditioners (2002-2004)
3- Principal investigator in project funded by Research center entitled spatial variability of some soil physical properties. (2002-2003)

4- Principal investigator in project funded by KACST entitled "Irrigation water conservation and soil management systems in intensive agriculture in Saudi Arabia .(2005-2007)

Publications

ARTICLES

1- **Al-Omran, A.M**. 1986. Temperature and water stress effects on the growth of corn seedling (Zea mays l.). J. Coll. Agric. K.S.U. 8:449-456.

2- **Al-Omran, A.M**. 1987. Evaluation of some irrigation water in central region of Saudi Arabia. J. Coll. Agric. K.S.U. 9:363-369.

3- **Al-Omran, A.M**., M.A. Mustafa and A.A. Shalaby. 1987. Intermittent evaporation from soil columns as affected by gel-forming conditioners. Soil Sci. Soc. Am. J. 51:1593-1599.

4- **Al-Omran, A.M**., M.A. Mustafa and M.Mursi. 1988. The influence of gel-forming conditioner on water retention and crust strength of some calcareous soil. J. Coll. Agric. K.S.U. 10:199-207.

5- Mustafa, M.A., **A.M. Al-Omran**, A. A. Shalaby and A.M. Al-Darby. 1988. Horizontal infiltration of water in soil columns as affected by gel-forming conditioner. Soil Science 145:330-336.

6- Mustafa, M.A., A.M. Al-Darby, **A.M. Al-Omran** and M.Mursi. 1989. Impact of gel conditioner and water quality upon soil infiltration. Irrigation Science 10: 169-176.

7- Al-Mustafa, W.A., and **A.M. Al-Omran**. 1989. Effect of soil moisture on growth and phosphorus uptake by wheat. Arab Gulf J. Bio. Agri. 57(1): 43-51.

8-Al-Darby, A.M., M.A. Mustafa **A.M. Al-Omran** and M.O. Mahjooub. 1989. Effect of wheat residue and evaporative demand on intermittent evaporation. Soil Tillage Research 15:105-116.

9- **Al-Omran, A.M**., M.A. Mustafa and A.A. Shalaby. 1990. Response of wheat to irrigation regimes and a gel conditioner. J. King Saud Univ. Agri Sci. 2(1): 139-145.

10- Al-Darby, A.M., M.A. Mustafa, **A.M. Al-Omran** and M.O. Mahjooub. 1990. Effect of three commercial conditioners on available water conserved and strength of a loamy sand soil. J. King Saud Univ. Agric. Sci. 2(2): 307-320.

11- Al-Mustafa, W.A., and **A.M. Al-Omran**. 1990. Reliability of 1:1, 1:2, and 1:5 weight extracts for expressing salinity in light textured soils of Saudi Arabia. J. King Saud Univ. Agri Sci. 2(2): 321-329.

12- **Al-Omran, A.M**., A.A. Shalaby, M.A. Mustafa, and A.M. Al-Darby. 1990. Impact of water quality on crust strength of a gel conditioned calcareous sandy soil. Soil Technology 3: 57-62

13- Al-Darby, A.M., M.A. Mustafa and **A.M. Al-Omran**. 1990. Effect of water quality on infiltration of loamy sand soil treated with three gel conditioners. Soil Technology. 3: 83-90.

14- **Al-Omran, A.M**. 1990. The effect of water regimes on corn and wheat production. Emir. J. Agric. Sci. 2: 80-96.

15- **Al-Omran, A.M**., A.M. Al-Darby, M.A. Mustafa and A.A. Shalaby. 1991. Impact of gel conditioners and water salinity on intermittent evaporation. Egyptian J. Soil Science 31: 575-588.

16- **Al-Omran, A.M**. 1991. Effect of deficit irrigation on potatoes production. J. King Saud Univ. Agri Sci. 3(1): 139-147.

17- **Al-Omran, A.M**., M.A. Mustafa, A.M. Al-Darby, and A.A. Shalaby. 1991. Gel-conditioned barriers for water management of sandy soil. Irrigation Science 12: 273-286.

18- **Al-Omran, A.M**., and A.A. Shalaby. 1992. Calculation of water requirements for some crops in the eastern and central regions of Saudi Arabia. J. King Saud Univ. Agri Sci. 4(1): 97-114. In Arabic.

19- **Al-Omran, A.M.**, and A.A. Shalaby. 1992. Effect of water quality and gel-conditioner rate on intermittent evaporation. J. King Saud Univ. Agri Sci. 4(2): 273-286.

20- Wendroth, O., **A.M. Al-Omran**, C. Kirda, K. Reichardt and D.R. Nielsen. 1992. State space approach to spatial variability of crop yield. Soil Sci. Soc. Am. J. 56: 801-807.

21- El-Shafei, Y.Z., **A.M. Al-Omran**, A.M. Al-Darby and A.A. Shalaby. 1992. Influence of upper layer treatment of gel-forming conditioner on water movement in sandy soils under sprinkler infiltration. Arid Soil Res. Rehab. 6: 217-231.

22- Al-Darby, A.M., **A.M. Al-Omran**, and A.A. Shalaby. 1993. Influence of water quality on water absorption capacity of soil gel-conditioners. J. King Saud Univ. Agric. Sci. 5(1): 111-117.

23- **Al-Omran, A.M**. and O. Elbassir. 1993. State space analysis of the spatial variability field-measured infiltration. Arab gulf J. Sci. Res. 11(1): 69-82.

24- **Al-Omran, A.M.** 1993. State space analysis of soil water content and textural fractions J. King Saud Univ. Agric. Sci. 5(2): 277-287.

25- El-Shafei, Y.Z., **A.M. Al-Omran**, and A.M. Al-Darby. 1993. Impact of kinetic energy of falling drops upon soil infiltrability. ICID Bulletin CIID. 42(2): 57-71.

26- El-Shafei, Y.Z., A.M. Al-Darby, A.A. Shalaby, and **A.M. Al-Omran**. 1994. Impact of a highly swelling gel-forming conditioner (Acryhope) upon water movement in uniform sandy soils. Arid Soil Res. Rehab. 8: 33-50.

27- Al-Harbi, A.R., **A.M. Al-Omran**, H. Wahdan, and A.A. Shalaby. 1994. Impact of irrigation regime and conditioner rate on tomato seedling growth. Arid Soil Res. Rehab. 8: 285-290.

28- Falatah, A.M., and **A.M. Al-Omran**. 1995. Impact of a soil conditioner on some selected chemical properties of calcareous soil. Arid Soil Res. Rehab. 9: 91-96.

29- Choudhary, M.I., A.A. Shalaby, and **A.M. Al-Omran**. 1995. Water holding capacity and evaporation of calcareous soils as affected by four synthetic polymers. Commun. Soil Sci. Plant Anal. 26(13&14): 2205-2215.

30- **Al-Omran, A.M.**, W.A. Al-Mustafa and M.M. Mursi. 1996. Spatial variability of some soil physical properties I. Autocorrelation, Variogram, Cross-correlation and Cross-variograms. J. King Saud Univ. Agric. Sci**.** 8(1):95-108 (In Arabic).

31- **Al-Omran, A.M**., W.A. Al-Mustafa and M.M. Mursi. 1996. Spatial variability of some soil physical properties II. Kriging and Cokriging. J. King Saud Univ. Agric. Sci. 8(2):229-243. (In Arabic).

32- Al-Harbi, A.R., **A.M. Al-Omran**, M.I. Chodhary, H. Wahdan, and M.M. Mursi. 1996. Influence of soil conditioner rate on seed germination and growth of cucumber plants (Cucumis sativus L.). Arab Gulf J. Sci. Res. 14: (1) 129-142.

33- Falatah, A.M., M.I. Choudhary, and **A.M. Al-Omran**. 1996. Changes in some chemical properties of arid soils as affected by synthetic polymers. Arid Soil Res. Rehab. 10:277-285.

34- Al-Darby, A.M., **A.M. Al-Omran**, Y.Z. El-Shafei, and A.A. Shalaby. 1996. Influence of highly swelling gel-forming conditioner (Acrhope) on hydrophysical properties of layered sandy soils. J. King Saud Univ. Agric. Sci. 8(1): 160-173.

35- Al-Harbi, A.R., **A.M.Al-Omran,** A.A. Shalaby, and M.I. Choudhary. 1996. Growth of cucumber to hydrophilic polymer application under soil moisture levels. J. of Vegetable Crop Production 2(2):57-64.

36- Al-Wabel, M.I., A.A. Shalaby and **A.M. Al-Omran**.1997. Intermittent evaporation from calcareous sandy soils as affected by sewage sludge. Arid Soil Res. Rehab. 11:85-93.

37- Falatah, A.A., M.I. Choudhary, A.A. Shalaby and **A.M. Al-Omran**. 1997. Spatial variability of some soil physical characteristics of Al-Khotkhot experimental station. J. King Saud Univ. Agric. Sci. 9(2):303-318.

38- **Al-Omran, A.M.,**A.A. Shalaby and M.I. Al-Wabel. 1997. Impact of sewage sludge on water movement in calcareous sandy soils. Sultan Qaboos Univ. J. Scient. Res. Agric. Sci. 2:59-67.

39- Choudhary, M.I., **A.M. Al-Omran,** A.A. Shalaby. 1998. Physical properties of sandy soil as affected by a soil conditioner under wetting and drying cycles. Sultan Qaboos Univ. J. Scient.Res.Agric.Sci. 3(2):69-74.

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47- **Al-Omran, A.M**., A.M. Falatah, A.A. Shalaby, M.M. Mursi, M. Nadeem, and M.I. Choudhary. 2002. Impact of the natural deposits of Saudi Arabia on selected physical properties of calcareous sandy soil. Drasat. Vol.29(3): 285-294.

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51- **Al-Omran, A.M**., F.S. Mohammad, H.M. Alghobari, and A.A. Alazba. 2004. Determination of evapotranspiration of tomato and squash using lysimeters in central Saudi Arabia. International Agricultural Engineering Journal, 13(1&2):27-36.

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