

نموذج
سيرة حياة عضو هيئة التدريس

CURRICULUM VIT



السيرة الذاتية

الاسم الرباعي: عبد الرؤوف محمد جديع (العلي) الديري

Name: ABDUL RAOUF M. (El-ALI) AL-DAIRY



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معلومات شخصية :
مكان الولادة: **المزار-اربد Mazar-Irbid** Place of Birth :
Nationality :**Jordanian** أردني الجنسية:
تاريخ الولادة : 1953/1/9 Birth Date:
الحالة الاجتماعية: **متزوج** Marital Status :**Married**

المؤهلات العلمية : (مرتبة حسب تسلسل الحصول عليها)				
Education (Chronological order)				
الدرجة (Degree)	التخصص (Field)	الجامعة (University)	البلد (Country)	سنة التخرج (Grad. Yr.)
البكالوريوس (Bachelor)	Physics	Yarmouk Univ.	Jordan	1980
الماجستير (Master)	Physics	Michigan State Univ.	USA	1984
الدكتوراه (Ph. D.)	Physics Experimental, Solid State Physics	Univ. of Arkansas	USA	1989

Master Thesis Title :	عنوان رسالة الماجستير :
None Thesis	بدون رسالة

Ph.D. Dissertation Title:	عنوان أطروحة الدكتوراه :
Ultrasonic Attenuation, Sound Velocity Measurements, and Structural Studies on High Temperature Superconductors.	

التاريخ الوظيفي (مرتبة من الأحدث إلى الأقدم)			
الوظيفة/الرتبة (Job/Rank)	مكان العمل (Place of job)	البلدة (Country)	السنين (من- إلى) (Years (from-to))
Vice Dean	College of Science Yarmouk University	Jordan	2010- Now
Associate Prof.	Physics Dept., Yarmouk Univ.	Jordan	2007 - 2010
Associate Prof.	Coll. Appl. Sci., German-Jordan Univ.	Jordan	2006-2007
Associate Prof.	Physics Dept., Yarmouk Univ.	Jordan	2004 -2006
Assistant Prof.	Physics Dept., Yarmouk Univ.	Jordan	2003 - 2004
Chairman.	Physics Dept., Yarmouk Univ.	Jordan	2001 - 2003
Assistant Prof.	Physics Dept. Yarmouk Univ.	Jordan	1998 - 2001
Assistant Prof.	Sur College	Sultanate of Oman	1996 – 1998
Assistant Prof.	Physics Dept., Yarmouk Univ.	Jordan,	1989 – 1996

Teaching Experience: **الخبرة التعليمية:** (المساقات التي درسها أو يدرسها)

Undergraduate Level: مستوى البكالوريوس:

Most of Undergraduate courses

Graduate Level: مستوى الدراسات العليا:

Classical Mechanics, Physics 611

Statistical Mechanics, Physics 661

Special Topics in Superconductivity

Research Interests: **الاهتمامات البحثية :**

- High Temperature Superconductors, Preparation and Characterization techniques.
- Magnetic Properties of magnetic materials.
- Elastic Properties of materials.

Scholarships, Honors, Awards and Patents **المنح التعليمية، ألقاب شرف وجوائز، وبراءات اختراع**

- His Majesty King Hussein prize for being 1st in B.Sc. degree (1981)
 - Yarmouk Univ. Scholarship for Ph.D degree (1982)
-

Graduate Student Supervision **الإشراف على طلبة الدراسات العليا : (مشرفاً رئيساً)**

عام التخرج Gr. Year	الدرجة Degree	عنوان الأطروحة Thesis Title	اسم الطالب Student Name
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2002	M.Sc.	“ Magnetization of Rare-Earth based High Temperature Superconductors”.	عبدالله مفلح جراح
		Student: A. M. Jarrah	
2004	M.Sc	“Scaling of I-V Characteristics in High temperature Superconductors”.	باسل سعد
		Student : Basil A. Sa`d	

2004	M.Sc	“Magneto-Resistance Study on Bulk YBa ₂ Cu ₃ O _{7-x} High Temperature Superconducting System”.	Student: Jehan M. Al-Bataineh	جيهان محمد البطاينة
2005	M.Sc	“Effect of Iron Addition on I-V Characteristic Curves in High Temperature Superconductors”	Student: Salsabeel Al-Omari	سلسبيل العمري
Currently: M. Sc. Thesis: " Calculations of Critical Currents, Internal Magnetic Fields, and Pinning Forces Using Critical State Approach"				
Student: Muna Bani-Yaseen				
Co-Advisor: 2 students		Member of M.Sc. Examination Committee: 12 students.		

Research Grants:			المنح البحثية:
قيمة الدعم Amount	المصدر Source	فترة المنحة Grant Years	عنوان البحث Research Title
As a principal investigator:			
1- Characterization setup for transport and magnetic measurements on irradiated high T _c Superconductors.			
6/2000 – 6/2002			
Yarmouk University, Deanship of Research and Graduate Studies			
Amount: 9580 JD			
2- Study of the effect of Bi replacement by Tl in Bi _{1-x} Tl _x Ba ₂ Cu ₃ O _{10+δ} .			
7/2006 – 6/2007			
Yarmouk University, Deanship of Research and Graduate Studies			
Amount: 800JD.			
Co-investigator: (3 projects with colleagues in Physics at Yarmouk).			

Membership of Professional Societies:	عضوية جمعيات متخصصة :
	None

Committees:**عضوية اللجان :**

- 1 – Department of Physics Council
- 2 – Faculty of Science Council
- 3 – Curriculum Committee, Dept., of Physics
- 4 – Graduate Affairs Committee, Dept. of Physics
- 5 – Laboratory Committee, Dept. of Physics
- 6 – Computer and Library Committee, Dept., of Physics

Conference Participation:**المؤتمرات:**

(Reverse Chronological Order)

(من الأحدث إلى الأقدم)

التاريخ (الشهر / السنة) Date: M/Y	مكان المؤتمر Place	عنوان المؤتمر Conference Title
		-The Third Regional conference on Magnetic and Superconducting Materials (MSM03), Monastir, Tunisia, Sept. 1-4, 2003.
		-Contributions of Arabs and Muslims in Science and Technology (Chairman), Yarmouk University, Irbid, Jordan, Sept. 2002.
		-The Second Regional conference on Magnetic and Superconducting Materials (MSM01), Irbid – Jordan, Sept. 9-13, 2001.
		-CTAPS 4 th Symposium on Magnetism, Irbid - Jordan (2000).
		-CTAPS 3 rd Symposium on Magnetism, Irbid - Jordan (1998) • The 6th Petra School of Physics, Irbid - Jordan (1998).
		-CTAPS 2 nd Symposium on Magnetism, Irbid - Jordan (1996).
		-CTAPS 1 st Symposium on Magnetism, Irbid - Jordan (1993).

**Training Courses,
Workshops****الدورات التدريبية وورش العمل:**

Date: M/Y	مكان انعقادها Place	عنوان الدورة/الورشة تاريخها/الشهر/السنة Title
9/2000	Ankara, Turkey	Ankara Workshop on Materials Science Research at SESAMT
June-August 1995	Birmingham / U.K	Research visit to University of Birmingham, sponsored by the E.C.
3/1990	Trieste, Italy,	Experimental Workshop on High T _c Superconductors.

كتب علمية / فصل كتاب متخصص جامعي: Textbooks/ Book Chapters (Univ. level)

Books:

(يكتب حسب التسلسل الآتي: المؤلف/المؤلفون، العنوان، الناشر، عدد الصفحات، سنة النشر).

- 1 – Ghaith, A., **El- Ali, A.**, Ismail, A., Hamam, Y. and Said, R., Manual of experiments (Mechanics 105) 1995.
- 2 – Ghaith, A., **El- Ali, A.**, Ismail, A., Hamam, Y. and Said, R., Manual of experiments (Electricity and Magnetism 106) 1995.
- 3 - Khataibeh, A., **El-Ali, A.**, Sawalheh M. and Bataineh, B., Natural Sciences, 1st edition, Dar almassira 2002.

بحوث منشورة في مجلات محكمة: Research Papers:

(تكتب حسب التسلسل الآتي: المؤلف/المؤلفون، العنوان، المجلة، العدد، الصفحات، سنة النشر).

- 1- Y. A. Hamam, A. El Ali (Al-Dairy), K. D. Alazawi and S. M. Mamand, (2009), Effect of Sintering and Annealing Temperatures on the Critical Temperature and Electrical Resistivity of $\text{Bi}_2\text{Ba}_2\text{Ca}_2\text{Cu}_3\text{O}_{10+\delta}$. **Jordan Journal of Physics**. Vol.2 No.3: 165-170.
- 2- Al-Khateeb, A., Abu-AlJarayesh, I., El-Ali (Al-Dairy), A., Hasse, R.W., Khasawneh, K. (2008), Spectra of Electromagnetic Surface Waves in an Infinite Superlattice of Two Alternating Metallic Layers. **Jordan Journal of Physics**. Vol.1 No.2: 103-111.
- 3- El-Ali (Al Dairy) and Khasawinah, Kh., (2008), Critical Current Enhancement by Iron Doping in $\text{Y}_1\text{Ba}_2\text{Cu}_3\text{O}_{7-\delta}$ Superconducting System. **Abhath Al-Yarmouk**. **17 2**: 467-476
- 4- Khasawinah, Kh., Hamam , Y., El-Ali (Al Dairy), A., Rousan, A. (2008), Magnetic Properties of Barium Titanate – Barium Ferrite Composites. **Jordan Journal of Physics** . Vol.1 No.2: 97-102.
- 5- El-Ali (Al Dairy), A., Hamam , Y., Alazawi, A. D., Khasawinah, Kh., (2008). Partial Substitution Effects on the Structure and Electrical properties of the High Temperature Superconducting System $\text{Bi}_{2-x}\text{Tl}_x\text{Ba}_{2-y}\text{Sr}_y\text{Ca}_2\text{Cu}_3\text{O}_{10+\delta}$.**Jordan Journal of Physics**. Vol.1 No.1 ; 43-52
- 6- Khasawinah, Kh., El-Ali (Al Dairy), A., Ayoub , N. (2008). Magnetization Measurements on Fe-Doped Y-based Superconductors. **Abhath Al-Yarmouk**. **17 1B**: 203-212 .
- 7- Khasawinah, Kh., El-Ali (Al Dairy), A., Hamam , Y. (2008). Effect of iron Addition on the Magnetization Measurements on the Normal State Y123 Superconducting System. **Abhath Al-Yarmouk**. **17 1A**: 43-50.
- 8- El-Ali, A., Ershaidat, N., Al-Sharif, A., Al-Khateeb, A., and Mahmood, S. (2005). Effects of Screening on the Plasmon Bands in Metallic Superlattices. **The Arabian Journal for Science and Engineering**. Vol 30, Num 2A : 229-236.
- 9- El-Ali, A., Albiss, B. A. and Khasawinah, Kh. (2004). Effects of Gamma Irradiation on the Superconducting Properties of $\text{TlBa}_2\text{Ca}_2\text{Cu}_3\text{O}_x$ Tapes. **Phys. Stat. Sol. C** , Vol 1 No 7: 1928-1934 .

- 10- Albiss, B. A., El-Ali, A. and Azez, K. A. (2004). Power Law Behavior of $Tl_1Ba_2Ca_2Cu_3O_9$ Superconducting Tapes, **Phys. Stat. Sol. C** , Vol 1 No 7: 1899-1903 .
- 11- El-Ali, Abdel-Raof, Khasawinah, Khitam., Shobaki, Jaser and Albiss, Borhan. A. (2002) . Dissipative Behavior in the Mixed State of Tl-2223 Superconductor. **Abhath Al-Yarmouk. 11 2B**: 877-883 .
- 12- El-Ali, A., Azez, K. A., Al-Omari, I.A., Shobaki, J., Hasan, M. K.(Qaseer), Albiss, B. A., Khasawinah, Kh, Ziq, Kh. A. and Salem, A. F. (2002) . The Paramagnetic Contribution in the Magnetization Behavior of $Y_{1-x}Gd_xBa_2Cu_3O_7$. **Physica B. 321**: 320-323.
- 13- Albiss, B. A., El-Ali, A. , Khasawinah, Kh., Hasan, M. K.(Qaseer), Al-Omari, I., Azez, K. A. and Shobaki, J. (2002). Effect of γ -irradiation on polycrystalline $Tl_1Ba_2Ca_2Cu_3O_y$ superconductor. **Physica B. 321** : 324-327.
- 14- Albiss, Borhan. A., and El-Ali, Abdul Raouf. (2002). , Effect of γ -Irradiation on Silver-Sheathed $Bi_{1.6}Pb_{0.4}Ba_2Ca_2Cu_3O_{10}$ Tapes. **IEEE Transactions on Applied Superconductivity. Vol 12 No. 1**: 1121-1123.
- 15- El-Ali, A. , Al-Kofahi, M., Mahmood, S. H. and Abu-Aljarayesh, I.(1996). Phonon Dispersion Curves of the Fe(Al,Co) System, **Al-Manarah** . Vol.1 No 3 : 27-35.
- 16- Mahmood, S., Al-Sugheir, M., El-Ali, A., Lehlooh, A. and Mahmoud, S. (1995). Mossbauer Spectroscopic Study of the Alloy System $Fe_{1-x}Co_x$. **Abhath Al-Yarmouk. 4 1B** : 9-24.
- 17- Dababneh, M., Odeh, I., El-Ali, A. and Ayoub, N. Y.(1992). Comparison Between Magnetization Obtained From Faraday Balance and VSM or Squid. **IEEE Transactions on Magnetism Vol. 28 No. 5** :2453-2455.
- 18- Marsh, D., Aramash, F., Bennett, J., Deck, R., El-Ali, A., Weeks, D. and Hermann, A. M., Effects of Ag addition to the Tl-Ba-Ca-Cu-O superconducting system. (1990). **Applied Physics Comm. 9(4)**: 245-265.
- 19- Pederson, D. O., El-Ali, A. , Sheng, Z. Z. and Hermann, A. M. (1989). Ultrasonic attenuation measurements on thallium-based high-temperature superconductors, **Phys. Rev. B 40**: 7313-7315.
- 20- Hermann, A. M., Sheng, Z. Z., Kiehl, W., Marsh, D., El-Ali, A., Hamburger, P. D., Almasan, C., Estrada, J. and Datta, T. (1988). Transport critical current and magnetization measurements on melt-processed $Yba_2Cu_3O_{7-x}$. **J. Appl. Phys. 64** : 5050-5055.

- 21- Hermann, A. M., Sheng, Z. Z., El-Ali, A., Mooney, G. D., Nelson, A. J., Goral, J. and Kazmerski, J. (1988). Structural and elemental analysis of melt-processible high-temperature superconductors by surface science and x-ray diffraction measurements. **J. Appl. Phys. 64** : 5056-5060.
- 22- Sheng, Z. Z., Kiehl, W., El-Ali, A., Marsh, D., Mooney, G. D., Aramash, F., Viar, D. and Hermann, A. M. (1988). New 120K Tl-Ca-Ba-Cu-O superconductor. **Appl. Phys. Lett. 52** 1738.

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- 23- Hazen, R. M., Finger, L. W., Angel, R. J., Perwitt, C. T., Heany, P. J., Velben, D. R., Ross, N. L., Hadidiacos, C. G., Sheng, Z. Z., El-Ali, A. and Hermann, A. M. (1988) Superconducting phases in the Tl-Ca-Ba-Cu-O system. **Phys. Rev. Lett.** **60** :1657.
- 24- Sheng, Z. Z., Kiehl, W., Marsh, D., Mooney, G. D., Aramash, F., El-Ali, A. and Hermann, A. M. (1988). Resistance fluctuations in the Y-Ba-Cu-O-F system. **Appl. Phys. Comm.** **8**: 127- 137.
- 25- Sheng, Z. Z., Hermann, A. M., El-Ali, A., Almasan, C., Estrada, J., Datta, T. and Matson, R. J. (1988). Superconductivity at 90K in the Tl-Ba-Cu-O system. **Phys. Rev. Lett.** **60** : 937.
- 26- Hermann, A. M., Sheng, Z. Z., Kiehl, W., Marsh, D., Aramash, F., El-Ali, A., Mooney, G. D., Sheng, L., Woolam, J. A. and Ahmed, A. (1987). Melt-processible Y-based high temperature superconductor. **Appl. Phys. Comm.** **7** : 275.
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References:

- 1- Prof. S. A. Mahmood, Physics Department, Yarmouk University, Irbid, Jordan.
E-mail: mahmoods@yu.edu.jo.
- 2- Prof. N. Ayoub, Dean, College of Science, Jordan-German University & Prof of Physics, Yarmouk University, Irbid, Jordan. E-mail: nayoub@yu.edu.jo .
- 3- Prof. I. Abu-Al-Jarayesh, Dean, College of Science, Professor of Physics, Yarmouk University, Irbid, Jordan. E-mail: scienc@yu.edu.jo and ijaraysh@yu.edu.jo .

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

جامعة اليرموك

إِنَّمَا نُنَادِيكُم بِالْعِلْمِ وَنَحْنُ نَعْتَمِدُ عَلَى تَنْسِيْبِكُمْ بِالْمَسْئَلَةِ الْعُلُومِيَّةِ وَالْإِلَهِيَّةِ
قَبْلَ رَجْعِكُمْ إِلَى الْعِلْمِ إِنَّ بَيْتَكُمْ

عبدالرووف محمد جديع العلي

درجة البكالوريوس في العلوم

مع ما يلزم هذه الدرجة من حقوق وامتيازات

منحت في اربيد في الثامن عشر من ذك القعدة سنة اربعمائه و الف للهجرة الموافق السابع والعشرين من ايلول سنة ثمانين وتسعمائة و الف الميلاد

رئيس الجامعة

عميد الكلية

رقم الشهادة ٤٤ / ق ٤

الشهادة غير معدة دون اختام التسيين

Michigan State University

Upon the Nomination of the Faculty has conferred upon

Abdul Raouf Moh'D Elali

the Degree of

Master of Science

Given under the Seal of the University at East Lansing in the
State of Michigan on this sixteenth day of March
in the year Nineteen Hundred and Eighty-four.

Garban J. Sawyer
Chancellor, Board of Trustees



Cecil Mackey
President of the University

University of Arkansas



To all to whom these presents may come

Greeting

Be it known that

Abdul Raouf M. El-Ali

having completed the prescribed course of study is by authority of the Board of Trustees of the University of Arkansas admitted to the Degree of

Doctor of Philosophy

and is declared entitled to all rights and privileges which pertain to that degree here or elsewhere. In testimony whereof and as evidence that all requirements for the degree have been fulfilled, this diploma is granted.

Dated at the University in the City of Fayetteville this Twentieth day of December in the year of our Lord nineteen hundred eighty-nine and of the University the one hundred and nineteenth year.



H. Syke Home
BOARD OF TRUSTEES

Ray Thomson
PRESIDENT OF THE UNIVERSITY

Daniel Smith
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