

2017

Year of Giving

سلسلة

الجامعة

Newsletter issued by  
the Media and Communications Department  
Issue 35, January 2017

Your readership is appreciated

UAEU:  
Welcomes 19 New  
Faculty Members for  
the 2<sup>nd</sup> Semester 2017..



The United Arab Emirates University (UAEU) recently welcomed 19 new distinguished faculty members from different prestigious international academic organizations as part of the New Faculty Members Orientation Program at the start of the 2<sup>nd</sup> semester of the 2016-2017 academic year, in the presence of His Excellency Professor Mohamed Albaili, Vice Chancellor of the UAEU, and a number of academic and administrative personnel.

Professor Albaili opened by saying, "First, I would like to convey the regards of His Excellency Dr. Ali Al Noaimi, Chancellor of the UAEU, and his wishes to you for a successful journey at the UAEU through your contributions which will foster the research and educational skills in developing the students' capabilities, which will positively contribute to the outcome of our education system."

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UAEU :  
**Launches Comprehensive Electronic Program for Academic Advising..**

UAEU Vice Chancellor Professor Mohamed Albaili launched a program for academic advising called Degree Works in the presence of deputies of the Vice Chancellor, deans of colleges and a number of faculty members and students. The program works as an interactive instrument to enable students and academic advisors to track the student academic journey as well as planning and tracking the student's study plan. Professor Albaili said that the program will develop the academic advising process, facilitate the auditing process, and offer academic advice to students, which will help them and save them time and effort, as well as raise awareness among students of the importance of registering for the correct courses according to the student's academic needs and level.

To read more...

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## Editorial

The year of giving has just arrived, carrying goodness and achievements. It is a great opportunity for all of us to have our own achievement. I wish that everyone in UAEU share with us in conveying the events and achievements of giving. Our university is rich with giving examples that serve UAE society.

In this context, I would like to inform our new students in this semester that the door is open to share Media and Communications Department with pictures, news, events of giving in the National university in order to be an effective part in achieving the vision and mission of the university.

Ghalia Al Ahabbi  
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## UAEU : Holds Welcome Celebration for New Students for the 2<sup>nd</sup> Semester 2016-2017..

The division of the Deputy Vice Chancellor for Student Affairs and Enrollment at the United Arab Emirates University (UAEU) organized a celebration to welcome new students in the auditorium of the Crescent Building, with an accompanying exhibition, as part of the New Students' Orientation Program.

The event was held in the presence of His Excellency Professor Mohamed Albaili, Vice Chancellor of the UAEU, Dr. Ali Al Kaabi, Deputy Vice Chancellor for Student Affairs and Enrollment, and other academic and administrative senior officials at the university.



Professor Mohamed Albaili stated in his speech, "I welcome the new students who are joining the university community and I'm pleased to convey the regards of His Excellency Dr. Ali Al Noaimi, the Chancellor of the UAEU, and his wishes for a successful academic journey. I would like also to thank you for choosing the UAEU as the place to pursue your academic and professional life. The national university has strived since its establishment to equip the country with human resources capable of innovation, creativity and leadership in all fields to contribute to the development of UAE".

[To read more..](#)

## College of Science : Honors Distinctive Faculty Members and Researchers for 2016-2017 as Part of the Happy College Program ..

The College of Science (COS) at the United Arab Emirates University (UAEU) honored the distinctive researchers in the college as part of the Happy College Program. The event was held in the presence of Professor Ahmed Murad, Dean of COS, and other members of the college. Professor Murad stated, "This honoring is part of the



Happy College Program to express appreciation for the effort of faculty members and researchers in developing scientific research in order to foster the comprehensive development of the UAE, and to achieve the strategy of the university and of the college to develop the capabilities of the research and innovation in fields of national priority.

[To read more..](#)

## CETL : Organizes Orientation for New UAEU Faculty Members in 2nd Semester 2017..

The Center for Excellence in Teaching and Learning (CETL) at the United Arab Emirates University (UAEU) organized an orientation of services and programs available to new faculty members, at the College of Information Technology Building in January in the presence of number of faculty members and center administrators.

CETL director Professor Hassan Selim, said that the orientation aimed to show how CETL's services and



programs help prepare faculty members of UAEU colleges to develop their teaching and learning methods, and to facilitate modern uses of smart learning through training courses offered by the center. He added that these courses foster the professional development of faculty members and provide them with an effective and comprehensive educational environment for their students so that they have the best chance of becoming leaders in their communities in the future.

[To read more..](#)

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## Retracing the Steps of the Giving Zayed

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**Author:** Saeed Mohammad  
Saeed

**Publisher:** Abu Dhabi - Ministry of  
Culture Youth and Community  
Development

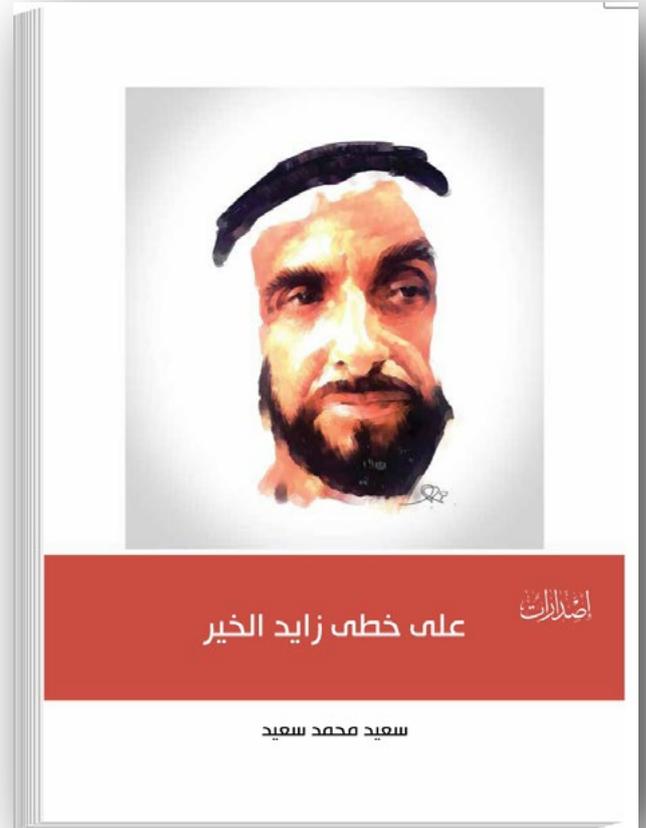
**Publication Year:** 2015

**No. of Pages:** 218

The book of Retracing the Steps of the Giving Zayed is written by Saeed Mohammad, Bahraini author. In his book, the author expresses the opinions of Bahrain people on the Giving Zayed.

The book has 10 chapters. The first chapter is titled (The Giving Zayed in the Heart of Bahrain people) which includes opinions of Bahraini writers. The second chapter is (The Founding Leader) which includes a summary of Zayed's ideology. The third chapter is (Khalifa Continues the Journey), a new era of continuing the giving journey.

The other chapters are (The Emirates Towards the Future), (Security Stability), (Way of Development), (UAE Charter of Development) and (Enlightening Words of the Giving Zayed and the Generous Khalifa).



# Gene Bank For Date Preservation

Specialist date palm research center is creating a gene bank for the humble fruit..



Researchers at the Date Palm Development Research Unit (DPDRU) in the United Arab Emirates are planning to create a gene bank for 150 date varieties. The center, part of the United Arab Emirates University (UAEU), was set up in 1989 to lead and facilitate research related to date palm production in the country through the application of tissue culture techniques – an in vitro technique to mass propagate date palm varieties. The introduction of a gene bank, says Moza Al Shamsi, head of the research and development unit at DPDRU, is the natural next step in the center's overall strategy.

"We are planning to get all the varieties in one area and create a genetic bank here in our lab," says Al Shamsi. "We are planning for 150 varieties, with a view of it being a reference, or a date library. We will focus on the UAE varieties – which range from khlass and khenizi to Fard and LuLu – and will work in collaboration with the Khalifa Center for Genetic Engineering & Biotechnology (KCGEB). The genetic bank will complement the center's existing processes, such as finger printing, whereby the center retrieves the leaves, reads the profile and stores the information for future reference. To date, the DPDRU has produced

and distributed one million date palms of 65 varieties, and grows 60,000 to 80,000 plants per year as a result of plant tissue culture.

Al Shamsi explains the process behind the technique: "We start with the mother plants – in the UAE we have more than 200 varieties. We then gradually take off the outer leaves and roots until we reach the heart of the date plant – we call this the meristematic tissue. We take it to the lab, sterilize it and then the tissue culture technique will begin.

To read more..

## Our sun, our stars and our galaxy start from DM:

The particle physicist and Arab researcher Salah Nasri investigates one of the most outstanding problems in particle physics and cosmology and that is the nature of the so-called Dark Matter (DM) in the universe.

Dr. Salah is a faculty member at the United Arab Emirates University won several international awards and published more than 65 research papers in the most prestigious and famous scientific research journals in the world. In addition, he is the winner of the National Graduate Studies and Scientific Research Award given by the University. He was given this award as a merit for his published research works, which are classified among the top 1% scientific journals according to the SCOPUS international database and the Web Of Science (WOS). Most of his research projects are trying to examine and determine the nature of Dark Matter (DM) and prove the existence of this substance that had occupied the minds of physicists around the globe. He has succeeded in providing a way to test its existence via its interaction with elementary particles at the early universe.

In 2007, Dr. Salah joined the department of Physics at the UAE University. He earned a master degree in physics in 2000 and in 2006 he got his PhD degree from Syracuse University, USA. Later on he worked as a researcher at Maryland Center for Theoretical Physics at the university of Maryland, USA. Then, he got a research associate position at the Fundamental Theory Institute at the University of Florida, USA.

Since 1998, his research is in the interplay between elementary particle physics and the physics of the early universe, with a focus on two of the most outstanding problems in this field: 1) the nature of DM 2) the mechanism that generates tiny non-zero mass for an elementary neutral particle called the neutrino. The evidence for the smallness of the neutrinos mass was provided in 1998 by the Super-Kamiokande neutrino oscillation experiment in Japan.

In this report, we discussed with him about several things, which deal about the mysteries of the universe and the galaxy as well as the Dark Matter, Dark Energy. Also we talked about the expansion of the universe and his research experience at CERN laboratory in Geneva (Switzerland) where he supervised students from the United Arab Emirates University to conduct research works on the running experiments at the Large Hadron Collider. Another additional topic which was enriched our interview was about the subject of a mysterious cosmic matter known as "WIMPS" that consists of huge particles that interact weakly with ordinary matter. The text of the interview is as follows:



### At the beginning, we would like to know what is particle physics?

Particle physics is a branch of physics, which studies elementary particles, which are the building blocks of matter and radiation, as well as the mutual interactions among them. This is also called High Energy Physics (HEP). The reason behind the latter naming is due to the fact that many elementary particles do not appear under natural conditions, but they can be detected by colliding beams of known particles such as protons or electrons with very high speed, and hence high energy. This is what is done at particle accelerators, such as the Large Hadron Collider, which collides two very heavy beams, each moving at 0.9999 the speed of light.

For further clarifications, we asked him about what is the Dark Matter and how its detection mechanism can be understood, and he said that there are overwhelming astronomical observations which indicate that about 90% of the matter in the universe is made of neutral stable particles that have extremely weak interaction that we can not detect it directly. He also noted that the current theoretical research in this field is focused on building particle physics models that can explain the observed relic abundance of the dark matter in the universe and the possibility to produce them at collider experiments such as the LHC at CERN. He also pointed out that had there been no DM in the universe, galaxies would not exist; without galaxies there would be no stars; without stars (such our sun) there will be no life.

### The Physics and The Impossible

Along our discussion, we talked about his experience at CERN, in Geneva, and the research that he conducted there, and he said: "CERN is the world largest high energy physics laboratory and hosts the particle "Large Hadrons Collider LHC". At the LHC, which search for new particles and interactions by colliding two beams of protons at very high energy. we have worked on some research topics related to Dark Matter and Dark Energy and also provided research training to two of UAEU

students in the summer of 2012 and getting involved in the data analysis within one of the two collaborations that discovered the Higgs particle on July 4th, 2012. After this training our students gained practical and theoretical experience, which enabled them to enhance their research skills in physics and nuclear energy.

### On his research award this year, published in the most prestigious physics research journals, he said:

I presented a research paper in which I proposed a class of 3-loop neutrino mass models that generalize the so-called "Krauss-Nasri-Trodden model" that has a DM candidate and can naturally explain the smallness of neutrino masses. We have shown that mechanism for generating neutrino mass and the nature of the DM can be understood within a unified framework. I also investigated the implication of the model at the Large Hadron Collider and other future planned colliders. The results were published in the top journals of Physics and received many citations, which reflects the importance of our research work. Asking him about his research aspirations and plans in the next coming period, he said:

During the current academic year 2016/2017, I am working on neutrino search, which plays a very important role in the universe, and the origin of the ultra high-energy cosmic rays, which primarily composed of protons. I hope this year I'll arrive to important scientific results in this area and be able to publish them in top journals.

### A final word that you would like to say for the students and researchers:

I would like to say that doing research is a valuable and enlightening experience for students. I strongly encourage student to get involved in a research project with faculty members here at UAEU who are striving for excellence in scientific research and dedicated to high quality education. With the knowledge, and the research skill that the students gain at UAEU, will prepare them to play a leading role in the development of the country.

# The most prominent posts on our social networking sites in January 2017:

# رسالت الجامعة

