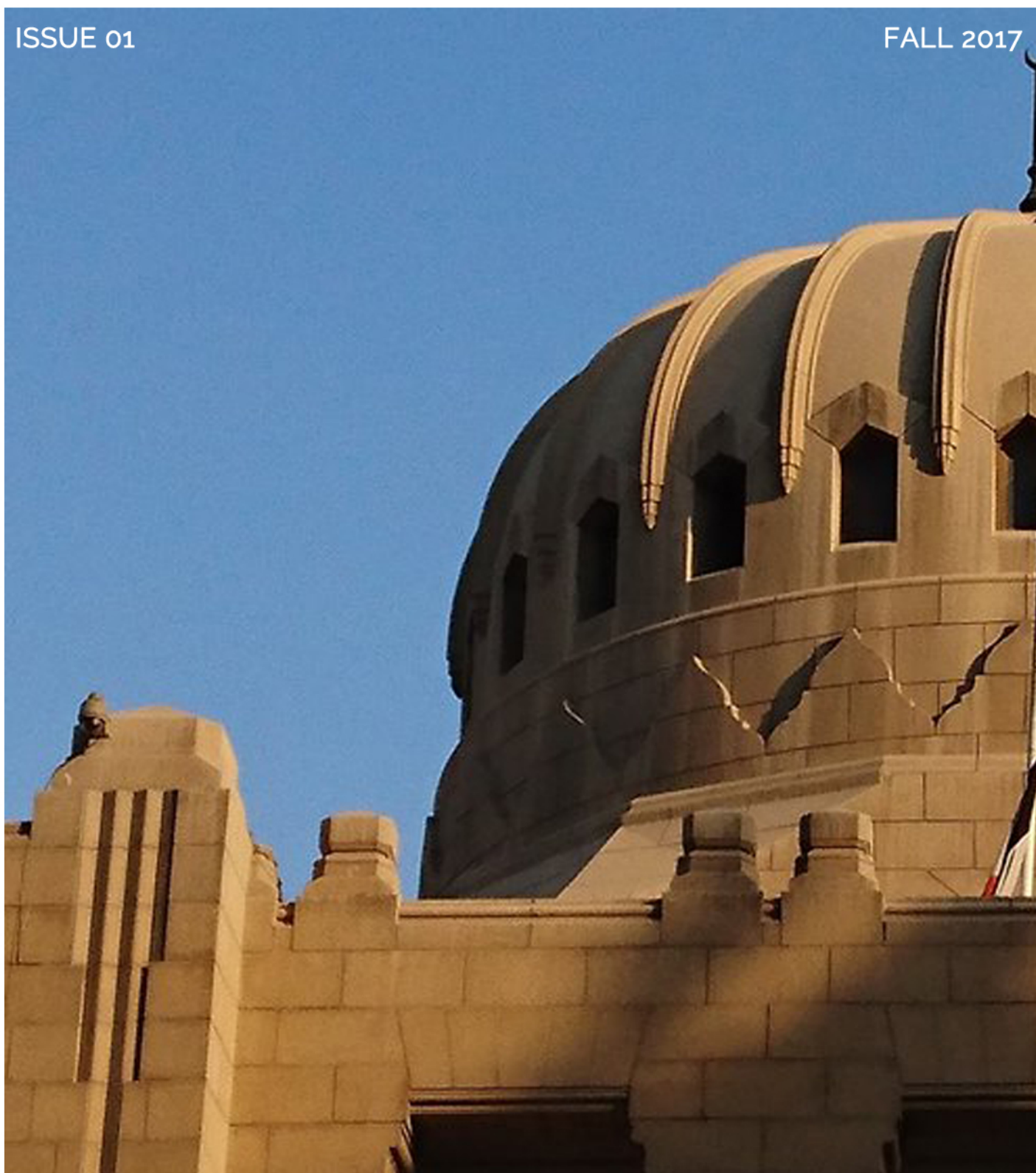


ASU-ENG

Newsletter

ISSUE 01

FALL 2017





Prof. Mohamed Ayman Ashour

Dean of Faculty of Engineering, Ain Shams University

Globalization, knowledge exchange and social as well as cultural interchange represent the inner circle and core of success of any academic institution. In synchrony with these believes, we operate, act and harmonize at our Faculty of Engineering, Ain Shams University. Our organizational terms, as well as academic staff calibers gave space to our institution to lead and be partner to a multitude and diversity of internationally funded projects, whether on research level or institutional linkage.

The International Collaboration Office ICO will allow these diversities to unify, enhancing experience interchange and database management to these structures. The office extends its services to support international students, who trust study tracks at Ain Shams University, to make the most out of their study experience. I'm delighted to introduce our first ICO Newsletter, in which launching of our ICO is revealed.



Flashback Fall 2017



Launching The ICO

ASU ENG International Collaboration Office ICO

Ain Shams University (ASU) is a learning and innovation center that seeks to enable dynamic exchange between people from different countries. The International Collaboration Office at the Faculty of Engineering (ENG) coordinates structured mobility programs for students, staff and scientists at ASU ENG and supports international students from all over the world who spend one or several semesters at ASU ENG every year. The office is dedicated to the expansion of the academic network with reliable partners around the globe. The Faculty of Engineering has opened the ICO office in order to be closer to international opportunities and to develop relationships with strategically important regions of the world. This shall contribute to an ongoing cultural and scientific dialogue with our partners and the growing network of international alumni.



Prof. Mostafa Refat

Director of International Collaboration Office
Vice Director-for Coordination and Academic Advising
Unit Head Environmental Architecture and Urbanism Programme
Professor of Architecture, Ain Shams University



Dr. Ghada Bassioni

Vice-Director of International Collaboration Office for Research and Outreach
Assoc. Prof. Head of Chemistry Division
Coordinator of the ASU-TUM collaboration, Faculty of Engineering, Ain Shams University



Dr. Ayman Farid

Vice-Director of International Collaboration Office for International Students and Training
Assistant Professor of Architecture, Ain Shams University

Inside This Issue ...

Launching The ICO	01
Momermundum of Understanding	03
Ezbet International Exhibition in Cairo	04
ICO Seminar about "Systemic Education Reform to Face the Global Challenges"	05
WOC 2017	05
Prof. Gerhard Ziegmann Lecture on 23rd of November	06
"The discovery of the void in the great pyramid"	07
Calls for Scholarships	08



ICO Supporting Team



Eng. Hussein Farid
Assistant Lecturer,
Ain Shams University



Eng. Fatma Fathy
Assistant Lecturer,
Ain Shams University



Eng. Hebatallah Soliman
Assistant Lecturer,
Ain Shams University



Eng. Omar Yousri
Teaching Assistant,
Ain Shams University

Ways to travel abroad

The ASU ENG stands for globalization and international scientific exchange. The International Collaboration Office offers a wide range of opportunities for worldwide cooperation and networking, as well as helping students, scientists and employees of the ASU ENG to gain international experience.



In addition to the programs for students, ASU ENG ICO offers a wide range of opportunities for scientists, academics and lecturers in connection with an international stay at various stages of a scientific activity.



Internationalization is

more than just a succession of accomplishments. Our commitment is to encourage a world-wide attitude that is reflected in all ASU ENG activities. We promote diversity and believe in the potential of science and technology as a common language between different cultures.

The International Collaboration Office is a central point of contact for information at the Faculty of Engineering that will open up a world of possibilities without borders. Some of the international activities offered at the ASU ENG will help you get introduced you to ASU from its cosmopolitan side.



Partnerships

In order to cope with today's scientific national challenges ASU ENG ICO is working closely with partner universities all over the world and is actively participating in international networks. A new quality of cooperation is realized with selected international partners through strategic associations.



Memorandum of Understanding



**Foshan University, School of Materials Science and Energy Engineering
Guangdong University of Technology, School of Chemical Engineering and Light Industry**

Ain Shams University, Faculty of Engineering, and Foshan University, School of Materials Science and Energy Engineering as well as Guangdong University of Technology, School of Chemical Engineering and Light Industry wishing to promote co-operation between the two institutions in education and in academic research, have signed memoranda of understanding

Both MoUS agreed to explore:

- a. co-operation on academic programmes;
- b. the development of joint research activities;
- c. and facilitate, university staff exchanges or mutual visits to both institutions;
- d. doctoral student training and development;
- e. student exchange and/or visiting programmes;
- f. the exchange of information, including the results of teaching and research collaboration;
- g. any other activities viewed to be mutually beneficial.



Representers of Foshan University, Guangdong University of Technology and the International Collaboration Office Director and Vice-directors



London South Bank University (LSBU)

Ain Shams University and London South Bank University (LSBU) have decided to enter into a co-operative relationship for the specific purpose of exploring the potential of University Innovation and Entrepreneurship.

The two parties shall promote opportunities for co-operation
Such activities will be limited to:

- Contrasting and Comparing the work of iHUB at Ain Shams University and the Clarence Centre at London South Bank University.
- Jointly exploring the wider opportunities for developing Innovation and Entrepreneurship across Egyptian Universities.

The administration of this MoU will be the responsibility of the International Collaboration Office at the Ain Shams University, Faculty of Engineering and the International collaboration Office at the corresponding University.





<https://eng.asu.edu.eg/Newsletter>

Issue 01 Fall 2017

Newsletter

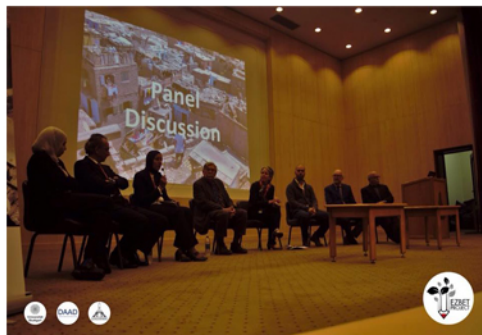
EIE/Ezbet International Exhibition in Cairo (from 3rd to 7th of December 2017)

Announcing the first Ezbet International Exhibition (EIE) at the Faculty of Engineering, Ain Shams University.

Announcing the first Ezbet International Exhibition (EIE) at the Faculty of Engineering, Ain Shams University. from 3rd to 7th December 2017 at the Faculty of Engineering, Ain Shams University; sponsored by the DAAD, Universität Stuttgart and the Faculty of Engineering, Ain Shams University. The exhibition was the first event in Cairo, which adds for the consolidation of the project successful work that has been achieved in the last three years of community development based on research and academic work.



EIE Preparations



Panel Discussion - Open Ceremony



Ezbet Open Exhibition



Ezbet Open Exhibition Tour



Ezbet Info Desk



Ezbet Team

Ezbet International Exhibition -EIE- was the first big event that Ezbet project created; where key persons from the local as well as the international levels gave a speech at the opening ceremony. Three workshops and different interactive activities were conducted in parallel. The exhibition was an out-door exhibition about the topics of "Participation" and "Bottom-Up approach" in the community development: Case Study: Ezbet Abu Qarn in Cairo.

ICO Seminar about; "Systemic Education Reform to Face the Global Challenges"

The International Collaboration Office has adopted systemic culture and thinking in education in order to overcome global challenges. The first seminar was titled: "Systemic Education Reform to Face the Global Challenges". The seminar was held on 4th December in the CHEP building.

Prof. Dr. Ameen Farouk Fahmy (Former director of center for the development of science teaching and professor emeritus, faculty of science) presented different points in this seminar: Defining the role of the systemic approach in raising the efficiency of the education processes and learning to achieve the benefits of total quality in education, raising awareness of the importance of systemic thinking for the students to exclaim their ability to reflect the future of the overall topic, mastering the ability to use systemic thinking when dealing with any problem to develop creative solutions, having the ability to analyze and compose the access to creativity, which is one of the most important outputs of any educational system successful in the era of globalization, and finally; increasing the effectiveness of the graduate performance to qualify them to work in different positions entities and organization.



Prof. Dr. Ameen Farouk Fahmy

WOC 2017 "Workshop in Oil field chemistry".

Ain Shams University, Faculty of Engineering, Chemistry Division launching the 6th WOC "Workshop in Oil field chemistry".



A commemorative photo of the workshop attendees

The 6th WOC "Workshop in Oil field chemistry" was held on Sunday, 22/10/2017. Under the auspices of Prof. Dr. Abdelwahab Ezzat, President of Ain Shams University, and Prof. Dr. Mohamed Ayman Ashour, Dean of the Faculty of Engineering; the Chemistry division, Faculty of Engineering, Ain Shams University, organized this event under the supervision of Assoc. Prof. Ghada Bassioni, head of the division.

Dr. Ghada Bassioni explained that for the sixth year in a row, the division holds the workshop in the field of oil field chemistry. It is mainly targeting the development of scientific and technological skills of the audience, with the use of modern technological applications in various fields of petroleum chemistry.



Prof. Dr. Nadia Kandile during her speech

This year the workshop focused on green chemistry challenges related to energy in Africa and the Middle East, as well as modern techniques in green chemistry, health, safety and environment, as well as the role of biomaterials in renewable energy. The Keynote speakers in this event were, **Prof. Dr. Nadia Kandile**, Professor of chemistry and chair of the national committee for pure and applied chemistry, Ministry of scientific research and higher education, **Prof. Dr. Zhihao Yang**, School of materials science and energy engineering, Foshan University, China and **Prof. Dr. Howard Wang**, Department of Materials Science and Engineering, University of Maryland, USA .

This workshop serves different disciplines, such as Production engineers, Petroleum engineers, Chemical and civil engineers, scale and asphaltene specialist, chemists, materials scientists, and energy experts and scientists. The diversity in the group in the workshop lead to constructive communication and brainstorming about the upcoming challenges in the region, and how to use the technology to overcome those challenges.



Prof. Gerhard Ziegmann lecture on 23rd of November



Prof. Gerhard Ziegmann

Ten years of fruitful cooperation between Ain Shams University and Clausthal University of Technology TU Clausthal, Germany has resulted in graduating several students of Ain Shams in the frame of the "Double Degree - Materials Engineering Program".

Prof. Gerhard Ziegmann (Former director of the Institute of Polymer Materials and Plastics Engineering at TU Clausthal) presented in his lecture the latest innovations of composite materials in German automobile and aviation industries. Defining the role of composite materials in nowadays application. The development of Carbon fiber reinforced composite on the aviation industry with respect to metallic materials explaining and demonstrating the process for carbon fiber fabrication and its properties.

The lecture, which was held in CHEP building on 23rd of November, received great attention from both staff members and students.

“ THE DISCOVERY OF THE VOID IN THE GREAT PYRAMID ”

Prof. Dr. Tamer Elnady has made a significant impact through his research discovering the void in the great pyramid. Prof. Elnady's group was responsible for the 3D Laser Scanning of the inner corridors of the pyramid to show its relation to the outside of the pyramid. All skills and competences needed in this work were acquired from the long history of participating in similar projects in the last 10 years.

This research was published on the 21st of December 2017 in one of the world's leading scientific journals, Nature: <https://www.nature.com/articles/nature24647>

Prof Elnady pointed out: "To understand the internal structure of the Great Pyramid, we imaged the pyramid using muons, which are by-products of cosmic rays that are only partially absorbed by stone. The resulting cosmic-ray muon radiography allows us to visualize the known and any unknown voids in the pyramid in a non-invasive way. Here we report the discovery of a large void (with a cross-section similar to that of the Grand Gallery and a minimum length of 30 meters) situated above the Grand Gallery. This constitutes the first major inner structure found in the Great Pyramid since the nineteenth century. These results constitute a breakthrough for the understanding of the internal structure of Khufu's Pyramid.



Ain Shams University team during the 3D Laser Scanning of the Great Pyramid

Although there is currently no information about the intended purpose of this void, these findings show how modern particle physics can shed new light on the world's archaeological heritage. This discovery can make a big change in pharaonic architecture, if we could reach this space somehow in order to fully understand the purpose of this void. We do not know yet the importance of this void nor what's inside it. All what we know is that there is a void with an approximate volume of 600 m². This can be a chamber, or a corridor, or a space used for any other purpose. I believe that Ancient Egyptian History is still full of secrets and surprises that should keep archaeologists (and Engineers) busy for a long time.

The team consisted of several groups from several universities and research institutions from Egypt, Japan and France. There are 37 researchers registered as authors on the paper published in Nature, 4 of them are Egyptians: 3 from Cairo University and 1 from Ain Shams University. However, there are also more people involved in the work. From Ain Shams University, this is a collective effort from the Group of Advanced Research in Dynamic Systems (ASU-GARDS) at the Faculty of Engineering, Ain Shams University. The main credit goes to Prof. Wael Akl, who started Virtual Reality Technologies in our group. Next, comes the third pillar of the group, Prof. Adel Elsabbagh. Then the real Virtual Reality Heroes of the group: Sherif Elnabarawy, Ahmed Yehia, Abanob Fawzy, Ehab Naguib and Mostafa Alaa. Nothing of this could have been achieved without the support of the rest of the group members, either researchers, engineers or admin staff."

Currently, Prof. Elnady's group is involved in other projects using Virtual Reality and Cultural Heritage; for example, they are working on developing the first Virtual Museum in Egypt with the Ministry of Antiquities, and are working on a project to present the underwater heritage in Virtual Reality.

Calls for Scholarships

Best Grants, Scholarships & Financial Aid for College & University Students

Recent Calls



Special Research Fund - Doctoral Scholarships for Candidates from Developing Countries

<https://www.ugent.be/en/research/funding/bof/dos>

Deadline 6 March 2018



DAAD GERLS Call for the academic year 2018/2019

https://www.daad.de/en/scholarship-database/?type-a&origin=2&q=GERLS&status=4&subjectgroup&onlydaad=0&language=en&pg=1&detail_to_show=50026812

Deadline 15 January 2018.



GERSS new call for application as of 15th of January 2018

<https://www.daad.de/en/2017/12/14/gerss-new-call-for-application-as-of-15th-of-january-2018/>

Deadline the next call for application is expected on 15th of January 2018.



RWTH International Academy Engineering Scholarship for Women in Germany, 2018

https://www.academy.rwth-aachen.de/files/rwth/downloads/ENS-Dateien/Master%20Degree%20Programs/_Uebergreifende%20Dokumente%20Master/Scholarships/Women%20in%20Engineering%20Scholarship%20Regulations%20JG%2018.pdf

Deadline March 1 each year



Postgraduate Research Global Excellence Studentship for International Students in UK, 2018

<http://www.cvg.ynu.ac.jp/G0/english/apply-e.htm>

Deadline January 31, 2018



100 FEBE International Undergraduate Scholarships at University of Newcastle in Australia, 2018

https://www.newcastle.edu.au/scholarships/ENGB_012

Deadline Open



Newcastle University Overseas Research Scholarship in UK, 2018

<http://www.ncl.ac.uk/postgraduate/funding/sources/internationalnoneustudents/nuors.html>

Deadline April 27, 2018



Engineering International Scholarship at University of Sheffield in UK, 2018

<https://www.sheffield.ac.uk/international/enquiry/money/ugengineering>

Deadline open for the year 2018



SLTS Scholarship at Saxion University of Applied Sciences in Netherlands, 2018

<https://www.saxion.edu/site/studying-at-saxion/international/getting-started/scholarships/saxion-scholarships/living-technology-scholarship/>

Deadline September intake the deadline to apply for a scholarship is 15 April, for the February intake the deadline is 1 December.



Never Miss an Online Scholarship Deadline



Aberdeen Curtin Alliance Fully Funded PhD Scholarships for International Students, 2018

<http://aberdeencurtinalliance.org/2017/11/15/collaborative-phd-scholarships-2018/>

Deadline January 10, 2018



Fully Funded Leverhulme PhD Scholarship at Queen's University Belfast in UK, 2018/2019

<http://www.qub.ac.uk/Study/PostgraduateStudy/FundingandScholarships/PHDStudentshipAwards/>

Deadline January 15, 2018



University of Toronto Scholars Programme for International Applicants in Canada, 2018

<http://discover.engineering.utoronto.ca/money/scholarships/>

Deadline February 1, 2018



CMU Portugal Dual Degree PhD Scholarships for International Students, 2018

<http://www.cmuportugal.org/tiercontent.aspx?id=7006>

Deadline For Engineering until January 1, 2018



Portsmouth Global PhD Scholarships for International Students in UK, 2018

<http://www.port.ac.uk/postgraduate-research/funding/international-scholarships/>

Deadline February 11, 2018



International Scholarships for Master of Science in Computational Mechanics, 2018

<http://www.cimne.com/cm>

Deadline January 15, 2018



100 FEBE International Undergraduate Scholarships at University of Newcastle in Australia, 2018

<https://research.google.com/research-outreach.html?#/research-outreach/africa/graduate-fellowships>

Deadline January 19, 2018



International Ambassador Scholarships at University of Kentucky in USA, 2018

<http://international.uky.edu/Apply/Scholarships>

Deadline February 15, 2018



Masters Scholarships for International Students at Örebro University in Sweden, 2018-2019

<https://www.oru.se/english/study/master-students/scholarships/orebro-university-scholarship/>

Deadline open for the year 2018



UK-Egypt Newton-Mosharafa Program:

<http://www.stdf.org.eg/index.php/currently-opened-grants>

Deadline December 30, 2017

For More Info:

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