



University of Science  
and Technology



Research  
Institutes



Valley of Science  
and Technology

## | General News

### Zewail City Commemorates the Loss of its Founder with a Higher University Rank and Preparations to Inaugurate the New Administrative Building



Dr. Mahmoud Abdrabou, Acting Executive President of Zewail City, paid tribute to the City founder and the Nobel laureate Dr. Ahmed Zewail in commemoration of Dr. Zewail's passing on the second of August 2016. During his career, Dr. Zewail had major contributions to scientific research and discoveries in the chemistry field.

Dr. Zewail was always keen on helping his home country. He established Zewail City as a scientific complex and a national project that supports Egypt's progress in scientific research.

The commemoration of the death of the great Egyptian scientist comes as the City achieves prominence with scientific accomplishments and advanced facilities. Just recently, the Times Higher Education announced in its ranking of Arab universities that Zewail City is ranked first on the national level and tenth in the Arab region. As to infrastructure, preparations are ongoing for the inauguration of the administrative and cultural complex at the City's headquarters in October Gardens. The complex has been equipped and furnished according to the highest standards.

[Check the full article here](#)

## | Events

### Reunion of Zewail City's UST Alumni



Alumni of Zewail City's University of Science and Technology (UST) came back to campus for a reunion organized by UST last July. Dr. Mahmoud Abd Rabbo, Acting Executive President of Zewail City, met with the alumni and delivered a speech during the reunion. As a nice gesture, the UST alumni invited the family of the late fellow alumnus Omar Daghar - who passed away earlier this year in an accident in Uganda. A speech was delivered in Omar's honor to highlight his services to the university and his colleagues.

## Zewail City's Student Organizations Council Launches "The Great Talk Series"



The Student Organizations Council (SOC) at Zewail City's University of Science and Technology launched one of its core summer programs this July, the "Great Talk Series". This program invites Zewail City students and alumni to attend bi-weekly panel discussions facilitated by Egyptian role models and top-notch keynote panelists from diverse backgrounds. SOC hosted the first panel discussion of "The Great Talk Series" in which the honored guest Dr. Elham Fadaly joined more than 140 Zewail City students and alumni in a two-hour virtual panel titled "Your Roadmap for an Exceptional Student Life Experience". The "Great Talk Series" is intended to engage all Zewail City students and alumni with role models to get the students to know more about how to start their journey towards a successful future, how to get the best out of their undergraduate studies, how to target and prepare for different top-notch careers and market opportunities, and finally how to give back to the community.

## Zewail City's Students Attend Awareness Sessions on Social Responsibility and Entrepreneurship



The Suez Canal Bank organized awareness sessions for Zewail City's students about entrepreneurship, financial inclusion, and the importance of digital technology. The sessions were offered as part of the bank's corporate social responsibility programs to serve the community in the area of youth financial education. Offering of these sessions is also inline with the bank's continuous support for Zewail City in recognition of the City's efforts to create a new generation capable of innovation and to advance national scientific research.

In the awareness sessions, Nour ELZeny, the Head of Corporate Communication and Social Responsibility at the Suez Canal Bank, talked to the students about the bank's efforts to support social responsibility and achieve sustainable development goals in Egypt's vision 2030. The talk also highlighted the bank's contribution in sponsoring tuition fees for eligible students for the third year. Mohamed Zidan, Deputy General Manager of the Small and Medium Enterprises Sector, talked about entrepreneurship, how to become a successful entrepreneur, and what are business incubators, business development services (BDS hub), and the NilePreneurs Initiative. Haytham Fathi, Head of Digital Banking and Financial Inclusion at the Bank, elaborated on the importance and objectives of financial inclusion and how to achieve financial inclusion. The Bank also conducted a competition for students on entrepreneurship and how to make a project plan and select innovative ideas. Finally, Reham Abou El-Ainin, CEO of Business Builder, conducted a workshop to help entrepreneurs create an action plan for their project using a Lean planning method which is optimal for developing a successful project.

## Two Teams from Zewail City Win First Place in the Egyptian Junior Researcher Competition





Two student teams from Zewail City's University of Science and Technology won first place in the Junior Egyptian Researcher Competition. The competition was organized by Nile University in collaboration with Zewail City's TICO. In the competition, university and high school students submitted research projects to win financial prizes and support opportunities to transform their projects into startups. The AQUA team, which consists of 4 students from the Environmental Engineering program, won first place in the biotechnology track of the competition with their project idea to solve the problem of water hyacinth. Another team from the Renewable Energy Engineering program won first place in the engineering and applied sciences track of the competition with their project idea to fabricate wind turbine blades.

## | Faculty News

### Ms. Toka Ahmed Participated in Imaging Africa Workshop Featured in Nature Methods



Earlier this year, Zewail City Researcher Toka A. Ahmed, research assistant and Ph.D. student at Zewail City's Center of Excellence for Stem Cells and Regenerative Medicine (CESC), attended the Imaging Africa Workshop and Symposium held at the University of Cape Town, South Africa. Ms. Toqa was selected for attending this academic workshop along with a few fellow researchers out of a pool of 700 applicants from 31 countries. She was awarded a travel scholarship which has covered the full costs of air travel, accommodation, meals, and all workshop-related expenses. As a novel experience for African scientists, the workshop has been featured in "Nature Methods" with Toqa's photo during hands-on experiments.

## | Research News

### Zewail City Researchers Publish a New Study in PLOS One Journal



Through collaboration between the Microbial genomics research group led by Dr. Mohamed Elhadidy, Professor in Zewail City's Biomedical Sciences Program, and Zewail City's Center for Genomics, a new study was published in the PLOS ONE journal. In this study, microbial comparative genomics was performed to identify genomic antimicrobial resistance determinants and genetic relationships between different lineages of *Campylobacter* (*Campylobacter jejuni* and *Campylobacter coli*). *Campylobacter* is considered to be the most common bacterial cause of human gastroenteritis worldwide. The most common clinical symptoms of *Campylobacter*-mediated infections include diarrhea, abdominal pain, fever, headache, nausea, and/or vomiting. Our findings contribute to the identification of transmission dynamics of antimicrobial resistance genes and their distribution by source. This study reveals the potential of next generation sequencing technologies for the *in silico* prediction of novel antimicrobial resistance mechanisms in *Campylobacter*. Therefore, this study reflects the importance of implementing next generation sequencing to set prevention strategies and strict antibiotic stewardship in Egypt, to combat the increasing threat of antimicrobial resistance.

## Monthly Highlights

## | University of Science & Technology (UST)

UST has 9 undergraduate academic programs: 5 engineering majors and 4 science majors, along with 13 graduate programs: 7 M.Sc. and 6 Ph.Ds. This month we highlight the Communications and Information Engineering (CIE) Program.

The CIE program puts special emphasis on topics essential for technical knowledge in the leading communications systems, services, networks, and computer systems in addition to soft skills. Students in this program do not only learn about the subject areas but also receive interdisciplinary training to help them cope with the progressively competitive and dynamic professional environment.

## | Research Institutes (RI)

The Research Institutes at Zewail City produce research that touches the daily lives of Egyptians through solving inherent and prevailing problems in several areas, such as health, technology, energy, and water. This will ultimately create sustainable development through industries built on the outputs of scientific research. This month we highlight the Center for Imaging and Microscopy (CIM).

CIM is equipped to enable imaging of nano-objects with atomic-scale-level of accuracy, as well as the ability to track movements of molecules and particles on the time scale of a millionth of a billionth of a second, the femtosecond. This center will play a pivotal role in research at Zewail City by working closely with its other research centers and by interacting with other research centers and universities in Egypt.

## | Valley of Science and Technology

The mission of VST is to ensure that Zewail City research outcomes are being protected and utilized into industrial products and services needed by society and the local market in the first place and then the foreign markets. The VST is a multiple-unit component and program of Zewail City. This month's highlight is the E-Club.

The E-Club is part of the VST programs co-funded by Egypt's Academy of Scientific Research and Technology (ASRT). Its vision aims to provide a dynamic and stimulating environment that brings students, faculty, researchers, and investors together. In order to spread the culture of entrepreneurship and also build a generation of entrepreneurs capable of facing the challenges and requirements of the Egyptian and regional market with pioneering ideas and projects that are socially, economically, and environmentally feasible.

## Get in touch



**Zewail City of Science, Technology and  
Innovation**

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