

**SDG9**



# Industry and Innovation

**2022-2023**



## Alexandria University Council Meeting endorses partnerships with universities, national authorities, schools and industrial sector

Alexandria university meeting endorsed partnerships with universities, national authorities, schools and industrial sector. These partnerships are with:

### In the field of Cultural partnerships

- The Council approved the proposed agreement to establish and operate the King Sejong Institute between Alexandria University and the Korean Cultural Center in Egypt.

### Partnerships with universities

- Renewing the memorandum of understanding between Alexandria University and Moi University in Kenya.
- The student exchange agreement between Alexandria University and Shanghai University of International Studies in China,
- The general agreement for cultural and scientific cooperation between Alexandria University and Spenza University of Rome in Italy,
- The cultural and scientific cooperation agreement between Alexandria University and the International Telematic University "UNINETTUNO" in Italy,
- And the memorandum of understanding between Alexandria University (Faculty of Fine Arts) and the Academy dei Romani - Institute of Fine Arts, Rome, Italy.
- A memorandum of understanding between Alexandria University (Faculty of Fine Arts) and the Academy of Fine Arts in Rome, Italy - Rome Institute of Fine Arts,
- The cooperation protocol between Alexandria University and Borg El Arab Technological University.



### Partnership with national authorities

- The cooperation protocol between Alexandria University and the General Authority of Alexandria Port,
- The protocol of understanding between Alexandria University (Higher Institute of Public Health) and the Alexandria Manpower Directorate,
- A memorandum of understanding between Alexandria University (Higher Institute of Public Health) and the Directorate of Health Affairs in Alexandria.

### Partnership with industrial companies

- The cooperation agreement between Alexandria University (Higher Institute of Public Health) and the Egyptian Petrochemical Company,

### Partnership with industrial schools

- The cooperation protocol between Alexandria University (Faculty of Education) and Hilalia Language Schools.



## The sustainable blue economy in the Mediterranean countries,” a workshop at Alexandria University January 2023

In light of the recommendations of the COP 27 climate conference, which Egypt hosted last November in Sharm El-Sheikh, Dr. Abdulaziz Qanswa, President of Alexandria University, and Professor Ahmed El-Wakil, President of the Alexandria Chamber of Commerce and President of the Federation of Mediterranean Chambers, opened today, Wednesday, January 11, 2023, the first The activities of the Center for the Greener Blue Economy at Alexandria University, which were held under the title “Issues of the Sustainable Blue Economy in the Mediterranean Basin Countries,” in the Conference Hall of the Faculty of Commerce.



The workshop discussed several issues about the concept of the “blue economy” and how to benefit from it in generating electricity from water energy, mining activities in the seas and oceans, marine tourism, fishing activities and marine organisms, extracting raw materials from the seas, and other forms of economic activity mainly related to With water, in the presence of Dr. Al-Sayed Al-Saifi, Dean of the Faculty of Commerce, Dr. Hassan Nadir Khairallah, former President of Alexandria University, Dr. Saeed Abdel Aziz, Dean of the Faculty of Commerce and former Governor of Sharkia, Dr. Hisham Arafat, former Minister of Transport, Dr. Sherif Haddara, former Minister of Petroleum, Major General Reda. Ismail, Head of the Maritime Transport Sector, Dr. Alaa Ezz, Secretary of the Federation of Chambers of Commerce, Engineer Seif El-Din Abu Al-Naga, Treasurer of the International Union of Architects, Professor Islam Salem, from the Chamber of Commerce and specialist in maritime transport and logistics, and the deans of colleges and a group of economics professors at the College of Commerce.



Dr. Abdel Aziz Qansouh, President of Alexandria University, confirmed in his speech that the idea of the Alexandria University Center for the Greener Blue Economy came through the preparatory sessions for the COP27 Conference of the Parties, which Egypt hosted in Sharm El-Sheikh, during which many discussions took place with Egyptian, Arab and foreign officials to present policies that support development and Optimal exploitation of available resources while reducing negative impacts on the environment. He added that Alexandria University, in cooperation with many academic bodies, experts and industrialists, presented many integrated research projects that are applicable to reduce pollution and heat emissions and

Dr. Abdel Aziz Qansouh, President of Alexandria University, confirmed in his speech that the idea of the Alexandria University Center for the Greener Blue Economy came through the preparatory sessions for the COP27 Conference of the Parties, which Egypt hosted in Sharm El-Sheikh, during which many discussions took place with Egyptian, Arab and foreign officials to present policies that support development and Optimal exploitation of available resources while reducing negative impacts on the environment. He added that Alexandria University, in cooperation with many academic bodies, experts and industrialists, presented many integrated research projects that are applicable to reduce pollution and heat emissions and

support projects to transform them into green industries, while emphasizing the need To finance with investments from banks and investors, especially from countries that have contributed more to pollution and heat emissions, he pointed to cooperation between Alexandria University, Mediterranean universities, the General Federation of Egyptian Chambers of Commerce, and the Federation of Mediterranean Chambers (ASCAMI) to carry out many initiatives and projects to achieve the common benefit of During the Greener Blue Economy Center at Alexandria University.

In his speech, Mr. Ahmed Al-Wakeel stressed that the blue economy consists of good management, optimal exploitation of water resources, and reliance on water to improve livelihoods through several activities, such as fishing and extracting raw materials from the seas, while ensuring respect for the environment and biological diversity, noting that 480 million people live in 22 countries around the world. In the Mediterranean basin, the blue economy can provide them with an opportunity to diversify job opportunities that help improve living conditions. He added that the Federation of Chambers of Commerce is counting on the center established by Alexandria University as a safe haven for the blue economy. He also explained that this workshop is the nucleus of several workshops during which experts will be hosted. Economists and experts in the field of marine sciences for the benefit of members of the Chamber of Commerce and the Mediterranean Chambers.

Dr. Hassan Nadir stressed that Alexandria University can play a major role in developing the blue economy, stressing that the establishment of the center was an important step for the optimal use of resources in the Mediterranean Sea, and that its launch from Alexandria stems from the regional and international role of Alexandria Governorate, and he pointed to the importance of preserving the sea. The Mediterranean, as it brings together the countries of the Mediterranean Basin. He also pointed to the center's vision, which is to study and research water problems and integrate economists to form a striking and effective force of scientists and researchers.

Dr. Al-Sayed Al-Saifi also welcomed the attendees, expressing his happiness at the Faculty of Commerce hosting this event, considering it the starting signal for the launch of the blue economy in Egypt.

Dr. Saeed Abdel Aziz pointed out that this workshop is the first of the new center established by Alexandria University in cooperation with the Alexandria Chamber of Commerce, the "Blue Economy Center," which in turn works to "provide social and economic returns for current and future generations by contributing to achieving food security, eliminating poverty, and improving The standard of living, improving income, providing job opportunities and safety, achieving sustainable health, security and political development, and relying on renewable energy and recycling materials in order to ensure economic and social sustainability at all times. He pointed out that control over the management of the blue economy is achieved through the use of management methods that are characterized as comprehensive and sustainable. Participation and effective activities in society.



## Alexandria University Council Meeting honors the winning researchers in University initiative to support Research

In the University Council meeting, Dr. Abdel Aziz Konsowa, President of Alexandria University, thanked the deans, the deans of the colleges, and the Secretary General of the University for their efforts in coordinating and organizing the work of the end of the second semester exams for the academic year 2022/2023.



The Council honored the winning researchers in the Alexandria University initiative to support research, which was announced by the University's Project Management Unit last July. 72 researchers submitted 72 research proposals, and 10 of them won a total funding of 200 thousand pounds per project. Dr. Konsowa said that this initiative came for the purpose of encouraging researchers to increase their production of applied scientific research and supporting the research community. This is in particular since scientific research constitutes one of the most important strategic pillars adopted by Alexandria University and is considered a fundamental pillar in the transition towards a knowledge-based economy. The support is to the international scientific publishing through Financial grants and prizes for researchers who publish in internationally indexed international journals and applied research that is **related to industry** highlighting distinguished, successful and applicable research results, improving the research level of scholars and providing them with various experiences, as well as supporting research and innovation and creating a spirit of scientific competition among all employees. Alexandria University.

The honorees are Dr. Iman Muhammad Thabet, Dr. Reham Abdel Halim Abu Al-Wafa, Dr. Nahla Muhammad Salah Hamouda, Dr. Brehan Al-Zahar, Dr. Mai Mahmoud Saleh, Dr. Shaima Al-Morsi, Dr. Mahmoud Amer, Dr. Salam Quraitem, Dr. Samer Amer, and Dr. Radwa Satour.



The Tenth **Student** Conference for Research and Innovation was opened at the Faculty of Science, Alexandria University

Under the patronage of Prof. Abdulaziz Konsowa President of Alexandria University, the Faculty of Science organized the **Tenth Student Conference for Research and Innovation for undergraduate and graduate students and schools**, and its activities will continue over the course of Academic year 2022-2023 in the college building in Shatby.



The opening was attended by Prof. Yasser Refaat - Deputy Minister of Higher Education for Scientific Research Affairs, and Prof. Alaa Abdel Bari - Vice President of the Arab Academy for Maritime Transport, Science and Technology, and Prof. Dr. Mohamed Rashad Abdel Fattah - Deputy Director of the City of Scientific Research and Technological Applications - for Scientific and Research Affairs, and Prof. Dr. Sameh Riyad, Head of Central Administration - Alexandria Environmental Affairs Agency, and Prof. Muhammad Ismail Abdo Ibrahim - Advisor to the President of the British University in Egypt, and Dr. Mohamed Muharram - Vice President of the Alexandria Businessmen Association, and A. Mohamed Adel - Executive Director of Scientific Periodicals and Customer Experience - Middle East and North Africa, representatives of industrial companies in Alexandria, deans and deans of colleges and institutes, heads of departments, exploratory centers, participating bodies, faculty members, the supporting staff, and our students from the university and schools.



Mrs. Prof. Amany Ismail, The Dean of the Faculty of science, considers the Student Conference of the College of Science to be the **link between pre-university education, represented by the schools and exploratory centers participating in the conference, and university education at its bachelor's and postgraduate levels, which provides the appropriate scientific environment to highlight the talents of students at different stages of education in the fields of research and scientific innovations, and to provide them with the skills of self-expression and talent development.**

The conference addresses several main topics: health and pre-clinical sciences, physical and chemical sciences, life sciences, science and technology, and sustainable development. With the participation of the Holding Company for Drinking Water in Alexandria, and the Sanitation Company "Company Exhibitions".

The number of participating schools is 15 schools, in addition to Exploration Centers, and 11 universities. The total number of participants in research is 218 participants, and the number of projects is 146 projects..



Konsowa congratulates the Faculty of Agriculture on  
winning 3 research projects in the initiative to  
**link scientific research with industry**

Prof. Abdel Aziz Konsowa, President of Alexandria University, congratulated the professors of the Faculty of Agriculture in Shatby, Dr. Morsi Al-Souda, Dr. Ibrahim Al-Sayed, and Dr. Sameh Awad, after they received contracts today for their winning projects within the initiative to **link scientific research with industry, which is the call launched by the Academy of Scientific Research in July 2022**. The research is for finding innovative applied scientific and technological solutions for the dairy sector.



Prof. Mahmoud Saqr, President of the Academy of Scientific Research and Technology, and Professor Doaa Salima, Executive Director of the Industrial Modernization Center, handed over the contracts for the three winning projects to professors of the Faculty of Agriculture.

Dr. Muhammad Bahi El-Din, Dean of the Faculty of Agriculture, pointed out that these projects come within the framework of the strategy launched by Prof. Abdul Aziz Konsowa, President of the University, with the necessity of achieving benefit from the university's research outputs and projects, developing **the concept of knowledge-based industry**, and maximizing the benefit of research to serve society, explaining that Cooperating with industry and supporting innovation, innovators, and technological entrepreneurship are among the most important priorities of Alexandria University and Egypt's Development Vision 2030. He added that 3 research outputs submitted by the Faculty of Agriculture were selected out of 8 nationwide for those who have the ability to implement their projects with industrial partners according to specific standards and a time plan. Specific. The main objectives, in addition to creating permanent channels between the industry sector, universities and research centers to benefit from ideas and scientific research in solving the challenges facing the various industrial sectors. He stressed that cooperation between the Academy of Scientific Research and the Center for Industrial Modernization through scientific research contributed to providing innovative solutions to develop the dairy sector. Its products are based on innovative scientific methodology.



## “Pre-Graduate Researchers” initiative in the field of nanotechnology

Two students in Alexandria Sciences won first place in the “Pre-Graduate Researchers” initiative in the field of nanotechnology. Prof. Abdel Aziz Konsowa, President of Alexandria University, congratulated the two students Basant Amir Muhammad and Roland Sami Ibrahim, who are enrolled in the fourth level in the Faculty of Science’s chemistry program, and who won first place as the best research in the field of nanotechnology, during the initiative launched by the Faculty of Science, Tanta University, entitled



“Undergraduate Researchers Initiative (URI)” at the level of Egyptian universities, under the auspices of the Ministry of Higher Education and Scientific Research, and the sponsorship of the Fund for Innovators and Geniuses.

The research was supervised by Prof. Mahmoud Mohamed Emara - Assistant Professor of Physical Chemistry at the Faculty of Science, Alexandria University. His topic revolves around recycling biological waste from industries based on agricultural products in building nanoscale materials capable of using sunlight to purify water from organic and inorganic pollutants. Nanometre materials based on agricultural waste are considered Sustainable materials that are self-degradable and biodegradable, making them environmentally friendly. Using them to purify water with sunlight is an energy-saving method that maintains a clean environment through green chemistry.





The Institute of Graduate studies and research on Climate change-  
discussions in cooperation with Of Al-Ezz Dekheila Steel  
Company (Ezz Steel), and the Alexandria Portland Cement  
Company (TITAN)- November 2022



Under the patronage of Professor Prof. Abdel Aziz Konsowa, President of Alexandria University, and Dr. Hisham Saeed, Dean of the Institute of Graduate Studies and Research, and in the presence of Professor Dr. Ibrahim Hindawi, Acting Head of the Environmental Studies Department and Head of the Conference Organizing Body, a conference was held for the Environmental Studies Department entitled "Climate Change and Regional Challenges in Middle East and North Africa region" in the institute's conference hall during the period from 19 to 20 November 2022

In the presence of the faculty members and the department's supporting staff, as well as from the various departments of the institute, the conference was held under the auspices of Al-Ezz Dekheila Steel Company (Ezz Steel), and the Alexandria Portland Cement Company (TITAN).

The conference was honored by the presence of a large number of representatives of industrialists from various companies, such as Al-Ezz Dekheila Steel Company (Ezz Steel), Alexandria Portland Cement Company (TITAN), Alexandria Fertilizer Company, Abu Qir Fertilizer Company, Alexandria Drinking Water Company, and graduates of the Department of Environmental Studies.

The conference discussed the economic dimensions of climate change, its economic impacts, and mitigation and adaptation efforts in confronting climate change. It included the energy and renewable energy axis, energy rationalization, and the gradual replacement of solar energy.

This conference resulted in some important recommendations that must be taken into consideration:

Expanding the base of participation in upcoming conferences with experts from the field of industry, especially decision makers.

Expanding the institute's research plans that are concerned with various industrial activities and emerging from their actual problems.

Preparing a cooperation protocol between the institute and industry experts to deliver several lectures to learn about the latest types of technology used in these industries to preserve the environment.

Conducting training courses and workshops for the institute's students with the help of industrialists to benefit from their expertise.

Organizing periodic and regular visits for faculty members, supporting staff, and students in the department to distinguished industrial entities.

Creating an integrated research strategic plan that clarifies the important topics that must be studied and creating an implementation plan for them in the field of the environment.

Determine a proposed date for the conference next year and ensure the importance of holding the conference on an annual basis