

Research Newsletter

Vice President's Office for Research and Enterprise

ISSUE 3, October 2021



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Welcome Note

BUE President

Entrusted with leading the British University in Egypt (BUE) in its implementation phase of the transformational initiative put forward by the Board of Trustees is a privilege. I am honoured as BUE's newly appointed President to have the opportunity to build on the achievements and foresight of previous leadership in realising the dream of the founding father of BUE, the late Mr. Mohamed Farid Khamis, a man who demonstrated in every aspect that a life in the service of others is a life fully lived. His vision of establishing a higher education institution whose governance is aligned to the needs of society requires that we handle arising matters during the implementation phase of our transformational initiative with measured responses, adopt approaches that are fit for purpose and garner innovative thinking. My academic background in systems thinking and professional experience of leading in educational reform internationally are bound to be imminently useful.

In alignment with our goal for BUE to become a knowledge exporter, fostering global fitness will be a key constituent of our internationalisation strategic plan. The university will create stretch opportunities that provide both academic staff and students with stimulating experiences through intercultural interaction, staff mobility, partnerships that prompt international research collaboration, cooperation between industry and academia and joint agreements that foster student study abroad. The expanding concept of internationalisation will ensure the continuity of providing students with transformational education that focuses on problem-based learning, industry internships, simulation, and real-life experiences.



Prof. Mohamed Loufti

BUE's 5th President

Internationalisation in research will continue to be high on our agenda as we work to ensure academic staff are research active; we will continue to encourage and support research publications that measure up to the standards of high-quality journals and continue to create a research environment that prompts the production of knowledge that is impactful in our society and beyond. International University Ranking relies heavily on our reputation as a university in all the aspects that denote higher education and on our research output. Needless to say, our collective effort as academics, administrators and students is and will continue to be reflected in the data published by international ranking organisations like QS and THE.

BUE's Transformational Initiative

Within the university's wider efforts to become the leading university in Egypt and the region, the British University in Egypt's Board of Trustees, decided on a transformational initiative. The university's senior leadership with devotedness, over the past months, has left no stone unturned to ensure the BUE transpires to a higher education institution that is capable of meeting the demands of academic staff and students in a post-pandemic world.

Reimagining the role of the BUE within a global context required that we entrust this responsibility to leadership that is in essence global. With a unanimous vote from the Board of Trustees, Prof. Mohamed Louffi was elected as BUE's fifth President and Vice Chancellor. His proven track record of influencing transformative change and progressive impact are an asset. The breadth and depth of Professor Louffi's experience in academia and internationalisation, will enable him to contribute strategically to the development of BUE and strengthen the university's position as a beacon of knowledge in Egypt and the region.

The current phase of transformation recognises that we are living rapid change and as senior leadership, we are working towards driving this change for a more impactful higher education experience for both academics and students. We will be focusing more on retaining outstanding staff, attracting new talent and recognising both individual and team effort in innovation and creativity.

Internationalisation will continue to be a defining feature of the BUE as we continue to incorporate global dimensions into all of our campus life to ensure we create the unique environment that yields global staff and students who are global citizens. We remain committed to excellence in research, teaching & learning, community service and internationalisation.



Prof. Yehia Bahei-EI-Din
Deputy Vice Chancellor
Vice President
Research and Enterprise

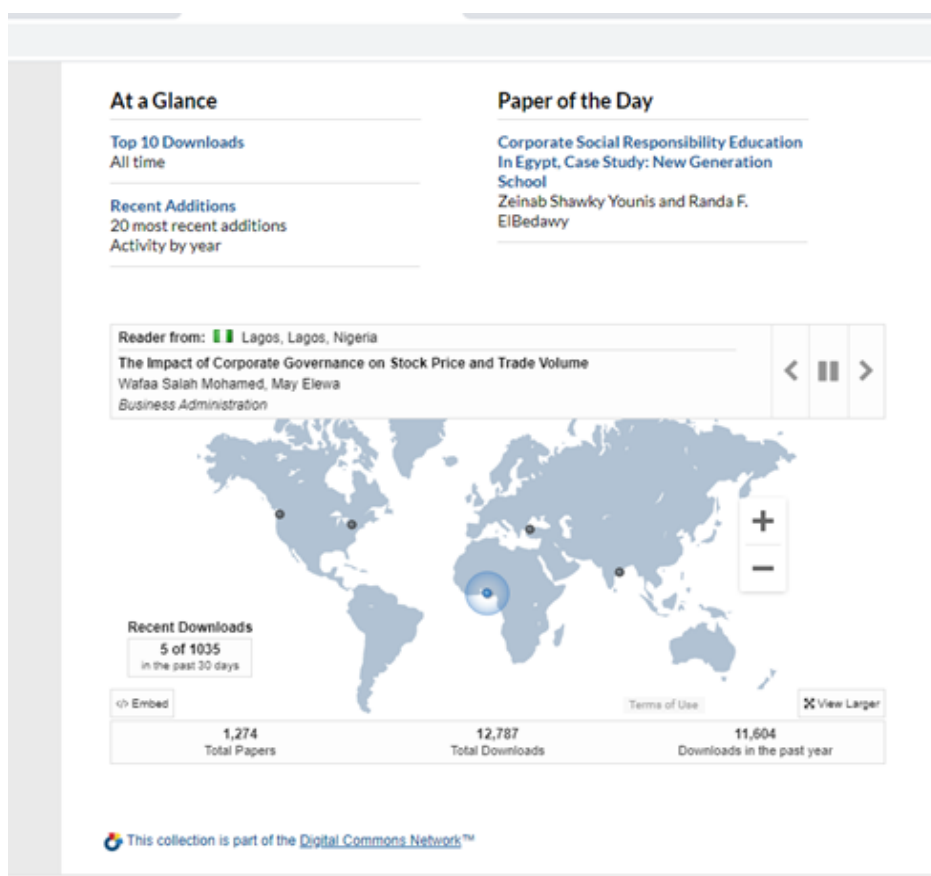
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BUE Scholar — Research Repository

BUE academics share their publications through BUE Scholar research repository. Interested researchers may download research papers from the following link:

<https://buescholar.bue.edu.eg>



Interactive Map of Real-time Downloads

The BUE Scholar interactive map shows the title of the research and the country in which the research is being downloaded in real-time.

BUE Scholar

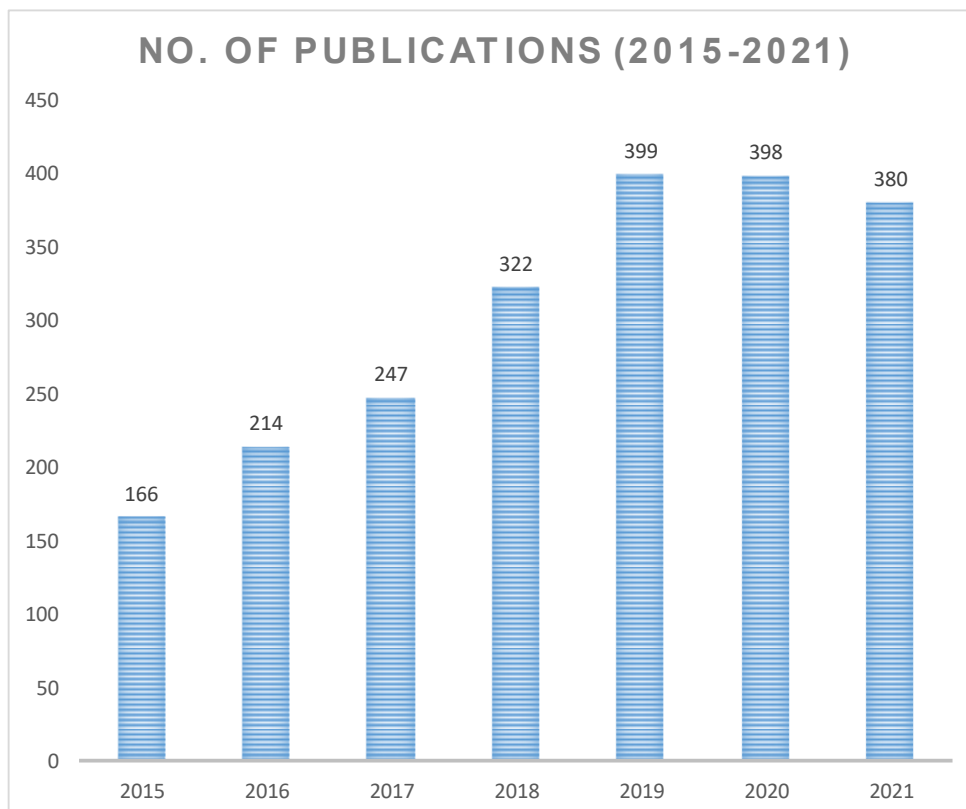
Top 10 Downloaded Papers Posted on BUE Scholar	
Research Paper Title	Downloads
<i>The Impact of Employee Engagement on Job Performance and Organisational Commitment in the Egyptian Banking Sector.</i> Dr. Maha Dajani	1951
<i>Bioactive lead compounds and molecular targets for the treatment of heart disease. Phytochemicals as Lead Compounds for New Drug Discoverys.</i> Dr. Maha Salama, Shahira Ezzat & Mohamed Salem	1108
<i>Patriarchal Ecocide: An Ecofeminist Reading of Rahul Varma's Bhopal and Henrik Ibsen's An Enemy of the People.</i> Dr. Rania M Rafik Khalil	436
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BUE Scholar is a service of the university Research Office. Research and scholarly output included in the repository has been selected and deposited by the individual university departments and centres on campus.

For more information, visit buescholar.bue.edu.eg

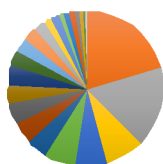
Cited BUE Publications

Publications in Scopus



Publications by Area

Documents by Subject Area (2015 to 2021)



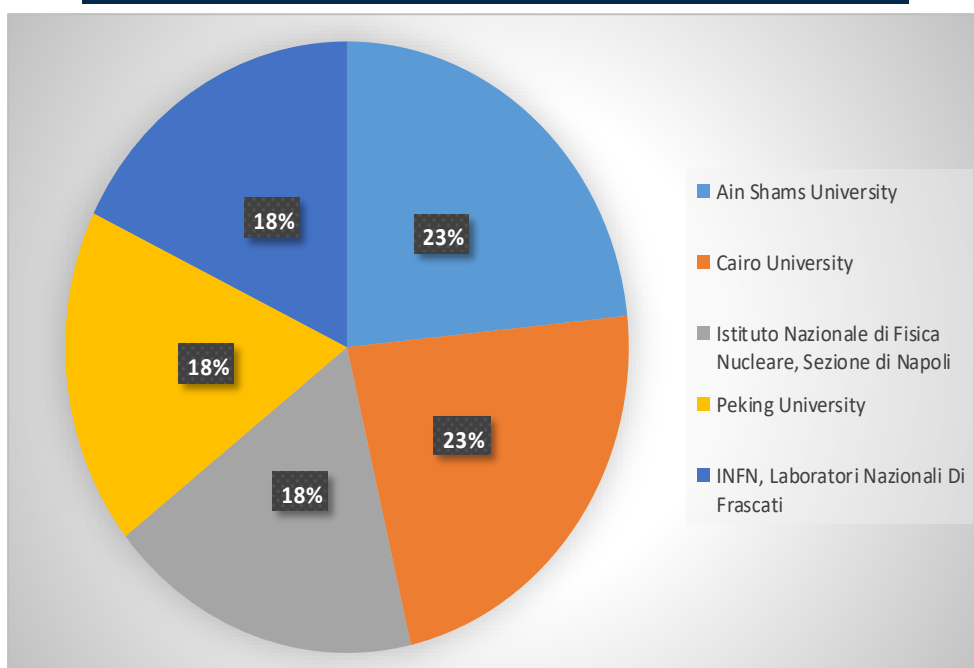
- Documents by subject area from 2015 to 2021
- Engineering
- Chemistry
- Pharmacology, Toxicology and Pharmaceutics
- Energy
- Chemical Engineering
- Physics and Astronomy
- Computer Science
- Materials Science
- Biochemistry, Genetics and Molecular Biology
- Mathematics
- Environmental Science

Cited BUE Publications

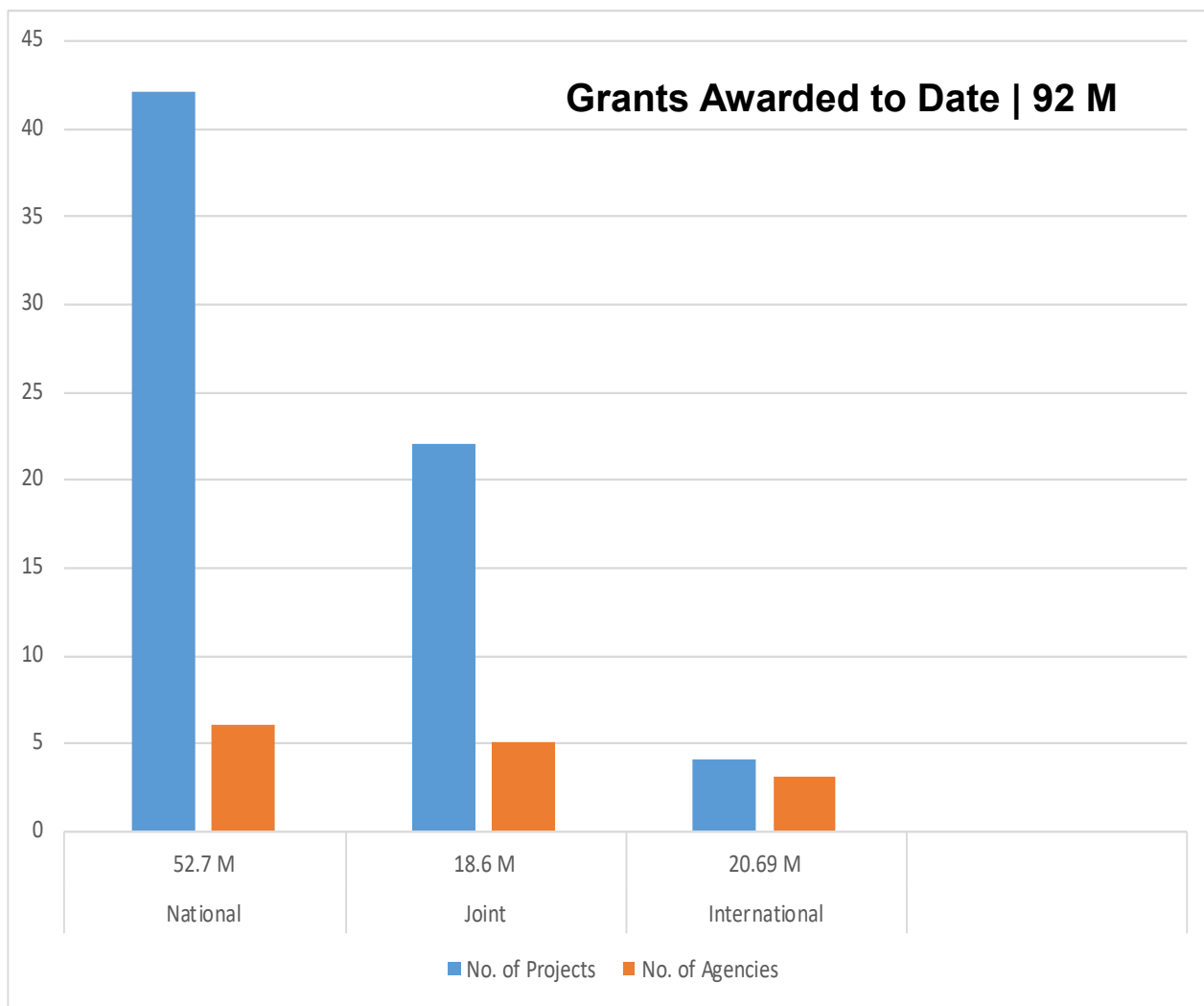
BUE Data in SciVal (2015-2021)

Overall views count	157,161
Overall views count per publication	73.8
Field-weighted views impact	4.34
Total number of citations	25,463
Cited publications	73.6
Citations per publication	12
Field-weighted citation impact	1.58
Publications in top 10% most cited worldwide	37.2
Publications in top 5% most cited worldwide	14.2
Publications in top 10% journals according to SNIP	14.7
Publications in top 5% journals according to SNIP	6.6
Publications co-authored with institutions in other countries	46.00%
Publications with both academic and corporate affiliations	0.70%

Top 5 Collaborations (2015-2021)



Externally Funded Research Grants



Grants Awarded March-October, 2021 | 8.82 M EGP

Project Title	PI	Funding Agency	Value (EGP)
BUE Business Incubator	Prof. Tamer Adel	Academy of Scientific Research and Technology	8,525,000
Emigrant Support Programme	Dr. Rania Khalil	Irish Embassy	160,000
Climate Resilience of Micro, Small and Medium Industrial Workplaces in Egypt: A future-fit approach to retrofit	Dr. Walaa Salah	British Council/Science and Technology Innovation Funding Authority	140,000

World University Rankings



Prof. Khaled Abdel Ghaffar, Minister of Higher Education and Scientific Research, congratulates Prof. Yehia Bahei-El-Din, Deputy Vice Chancellor and VP, Research and Enterprise, at the QS World University Ranking event in June. They are joined by Ashwin Fernandes, Regional Director for QS in the Middle East.

BUE Ranking in Egypt

4th top university in Egypt accredited by the Supreme Council of Universities according to QS WUR 2022

#1st top private university in Egypt, according to QS WUR 2022

#1 in Egypt for the 5th year running in the Shanghai Subject Ranking of World Universities (Physics)

BUE Global Ranking

#1001 in the world and **#12** in Africa, according to QS WUR 2022

#2 in the Arab region and **#3** in Africa (Shanghai Global Subject Ranking: Physics)

#301 in the world, according to the Shanghai Subject Ranking of World Universities (Physics)

Postgraduate Programmes

BAEPS	Political Science (M.Sc)	
	MBA in Marketing	
	MBA in Applied Finance and Economics	
CMM	Digital Media (M.SC)	
Engineering	Renewable Energy Engineering (M.Sc)	
	Renewable Energy Engineering (M.Eng)	
	Advanced Materials Science and Engineering (M.Sc)	
	Advanced Materials Science and Engineering (M.Eng)	
	Sustainable Engineering Design & Construction (M.Sc)	
	Sustainable Engineering Design & Construction (M.Eng)	
	Communication and Information Engineering (M.Sc)	NEW
	Communication and Information Engineering (M.Eng)	NEW
Dentistry	Endodontics (M.Sc)	
	Operative Dentistry (M.Sc)	
ICS	Web Science (M.Sc)	
Law	Cybercrime Investigation (Professional Master)	NEW
Pharmacy	Pharmaceutical Sciences (M.Sc.)	NEW

New Partnership



On April 12, The British University in Egypt and The New Egyptian Countryside Development Company “EI-Reef Al-Masry” (SAE) signed a joint cooperation protocol in the field of renewable energy in Western Minya, Minya Governorate.

EI-Reef Al-Masry was established according to the decree of the General Authority for Investment and Free Zones in 2015 for the purpose of reclamation, cultivation and development of the lands of “The one and a half million acres” project to create communities and new integrated industries that include, in addition to agricultural activity, industries linked and based on the productivity of the land, while organizing the utilization of groundwater resources, and opening new areas of economic development.

BUE is keen to achieve development in the field of renewable energy in Egypt and to provide services to researchers and specialists in this field to promote renewable energy applications in solving the problems facing the country with the latest technologies.

EI-Reef Al-Masry has allocated some lands in different areas of the “The one and a half million acres” project to the beneficiaries for the purpose of reclamation, cultivation and development, where the British University is going to experiment and operate one of the wind turbines prototypes developed and produced by its research teams in the western-western Minya region located on the Bani Mazar Al-Bawiti road.

In the framework of joint cooperation between the two parties, AI-Reef Al-Masry will allocate an area for the BUE to install and operate the wind turbine. First, BUE will conduct wind measurements in the region to determine the feasibility of the installation process. EI-Reef Al-Masry will provide the necessary logistics to install the turbine, which include foundation civil works and necessary cranes.

The British University plans to test wind turbines prototypes produced within the “New and Renewable Energy Alliance” project funded by the Academy of Scientific Research and Technology ASRT), and the “Affordable Resources” (RIndustry) project funded by the European Union.

Innovation Event

Held August 19-22, BUE's Start-Up Weekend invited students and professionals with ideas for an invention, a product, or a service that address resource, energy and water efficiency in Egyptian industries to attend a series of workshops and events.

The event was organized by three funded research projects: E-Club, TICO and RIndustry.

On the first day attendees met with industrial and energy experts who shared the challenges and opportunities of Egypt's industrial sector.

Participants were then grouped into teams with their prospective mentors, and each team was given the opportunity to apply design thinking techniques to develop an idea that addresses one of the challenges of Egypt's industries.

On the final day, teams pitched their ideas in front of a panel of industry experts and academics to evaluate their ideas. Winning ideas received monetary awards and certificates, and teams were invited to apply through RIndustry's startup funds.

Challenges of Egyptian Industries

Maged Mahmoud, Sara Elhag, Akram Almohamadi
Regional Center for Renewable Energy and Energy Efficiency (RCREEE)



Affordable
RIndustry
Resources



Project sponsored by
The European Union

Startup Weekend
Affordable Resources for Egypt's Industrial Growth (RIndustry)
Aug 19th to Aug 22nd, 2021






Addressing the Challenges

Lack of Awareness/Motivation

- Transparent **subsidy reform plan**
- Efforts through **focused initiatives** (by MTI, ENCP, IMC, GEFF, UNIDO, ECO-FEI, MoERE, EEAA, RCREEE, ...), including
- Concrete **marketing and awareness components**, showcasing **replicable success stories** in different industries
- Technical support **for the banking sector**
- Technical assistant and capacity building **for industry and ESCOs** on technical and financial assessment of EE and RE solutions, energy management systems, motor system optimization, compressed air system optimization, solar heating industrial process and others



















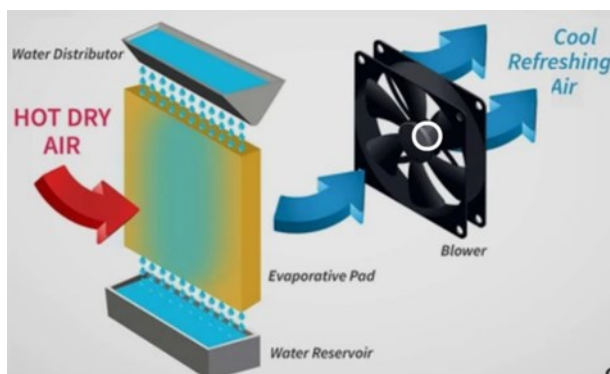
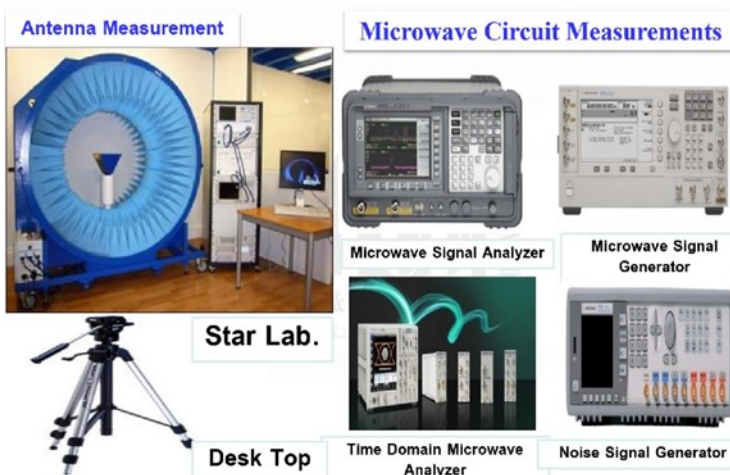



Research Centres News

Centre for Predictive Maintenance Conferences

Mechanical Industrial Linkage Seminar (April 12, 2021)

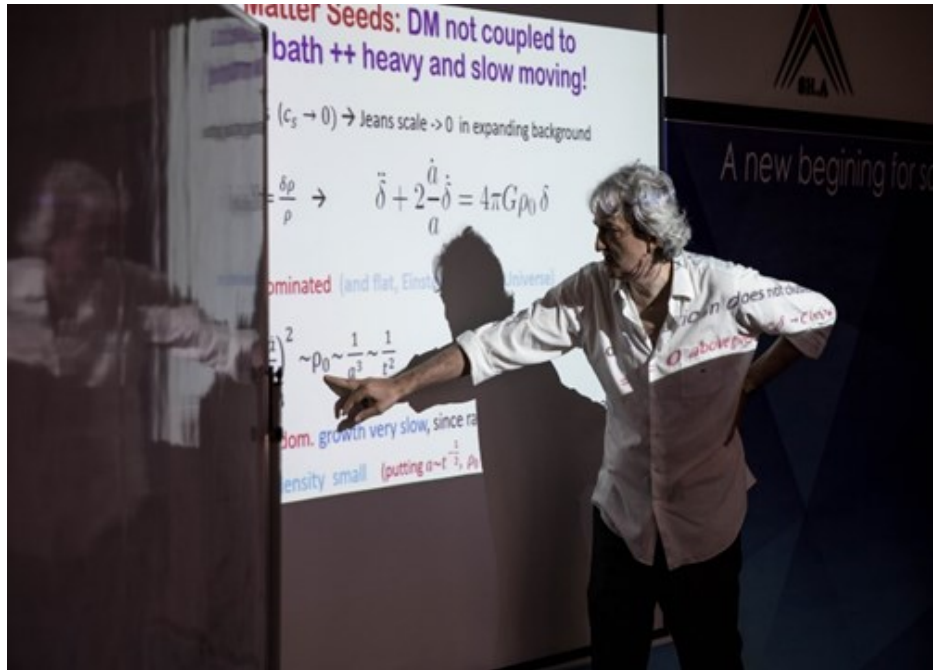
The Center for Predictive Maintenance (CPM) hosted and participated in a Seminar on topics linking industry and Mechanical Engineering with participants from both academia and industry. Topics discussed ranged from advancements (air conditioning, process control, and industrial automation), mobile applications for teaching, collaborations and digital transformation. Dr. Abdel-Moez Bayoumi, director of MacNair Center at the University of Southern Carolina, USA, gave a presentation titled “Digital Transformation Aspects in Mechanical Engineering.”



International Conference on Aerospace Sciences & Aviation Technology (April 6-8)

Dr. Abdel-Moez Bayoumi presented in the International Conference on Aerospace Sciences and Aviation Technology. He gave a presentation titled, “Advancing Industry 4.0: Digital Transformation from Theory to Real-Life Applications.”

CTP Receives International Visiting Researchers

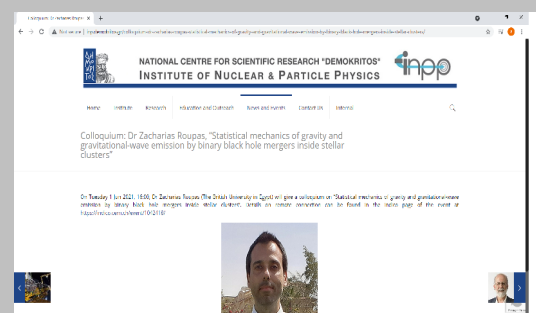


The Centre for Theoretical Physics (CTP) received researchers from several international universities including:

- Dr. Maria Guzman from University of Tartu, Estonia Visited the CTP on the first week of August.
- Dr. Ahmed Hammad from Basel University, Dr. Hammad gave a talk and a tutorial on Machine Learning in Biophysics at the Summer Internship Programme, from July 11 to 29 July 2021.
- Dr. Mohammed Amin from German Electron Synchrotron DESY, Groningen, visited the CTP and gave a talk and tutorial on Quantum Field Theory Computational Packages at the Summer Internship Programme that was held at the CTP from July 11 to 29 July 2021.

Dr. Zacharias Roupas Visits CTP Greece

Dr. Zacharias Roupas gave a colloquium on “Statistical mechanics of gravity and gravitational-wave emission by binary black hole mergers inside stellar clusters” Demokritos Institute of Nuclear and Particle Physics, in Athens, Greece on 1 June 2021.



CIGGE Hosts 8 Research Events




 الأكاديمية العربية للعلوم والتكنولوجيا والنقل البحري
 Arab Academy for Science, Technology & Maritime Transport

Port Marketing & Statistics

Focus on the COVID -19 Period

Online Joint Course

Institute by Marseille Fos, France.
Port Training Institute - Alexandria -Egypt

2020







The Centre for Innovation, Governance, and Green Economy (CIGGE) hosted several events including:

- Nuremberg Online Conference
- Agility and COVID-19 International Online Forum
- The Effect of COVID-19 on The Egyptian Maritime Sector and Ports
- The International Aspect committee
- Port Marketing & Statistics: Collaboration between BUE, Port Training Institute Alexandria and Marseille Ports
- Mindful Management: The Neuroscience of leadership
- International Seminar: Collaboration between Business Department and CIGGE
- Research Seminar: In collaboration between CIGGE and BUE Research Centre for Irish Studies

About the BUE Research Newsletter

The BUE Research Newsletter is produced by the BUE Research Management Office, Managed by the Office of the Vice President for Research and Enterprise

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