

Research Centres Annual Review 2018

Reporting Period
May 2017 – April 2018

Farouk El-Baz Centre
For Sustainability and Future Studies
(FECSFS)

Centre Director
Prof. Ahmed Yehia M.G Rashed

Associate Director
Dr. Marwa Adel El-Sayed

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1. Executive Summary

Since 2008 and with the believing of sustainable development there was the idea to establish Farouk ElBaz Centre of Sustainability and Future studies at the British University in Egypt. But it was started as a unit through the Architecture department and after the Future Intermediate Sustainable Cities Conference (November 2010) the unit became a Centre by March 2011

FISC was a futuristic vision for the sustainable development, which could be currently, included in the necessary studies and researches that Egypt needs in the self-building stage however; it was not made use of as it should have been.

The conference was connected to a competition for the sustainable future medium cities, and the ideas and scenarios of the 3 axes from the proposed passage of development and reconstruction, for the renowned scientist Farouk Al Baz.

Then, there was the revolution and the Centre of Sustainability and Future Studies as a Research and Development (R&D) Centre has emerged as an important part of the BUE's efforts to address future sustainability in terms of environmental, economic, and social challenges through the engagement of students, academic staff and researchers.

The center and the British University's vision became published, and participated in a lot of conferences, In China, Korea, Texas US, England, Italy, Germany, Jordan, Syria, UAE, Amman, and all of the universities in Egypt.

Then it was the stage to start cooperating with the important institutions, and the engineers syndicate in Hope and Work Olympics, to build Suez Canal Region's people and societies. Today the center and the British University hold the responsibility of raising a few national issues including:

- **The conference of Sustainable Mega Projects (Chance -Change-Challenge) “from 3- 5 of May 2016” details will be followed.**
- **Initiating the national civilization rights campaign “The National Campaign for Civilization Rights to Build Civilization (NCCRBC)”**
- **The participation in the celebration of the 50 years anniversary, since moving the temples of Abu Simbel.**
- **The attempt to utilize science, scientific research, and the Graduation projects in dealing with the challenges of our national issues, as well as the thinking of sustainable development.**
- **Completion of the “Green Heritage” Conference from 6th -8th of march 2018**
- **Applied in the STDF grants for national topics for “The Scientific Tourism for the Human Heritage for Upper Egypt “The Civilization will be born from the Womb of Civilization”**
- **The Centre of FECSFS in relation with Dr.Khaled el Zahaby HBRC about the Green Worship House Competition July 2017**
- **Organizing International conference**
- **Organizing National competitions**

- **Research proposals**
- **Preparing and participating Workshops and symposiums, Research, research support and articles related to sustainability and future studies, Media articles, TV programs and International and national summer and winter schools**
- **Establishing “Farouk El-Baz Forum for Younger Generations” (FEFYG), on 10 December 2016**
- **The FECSFS held a competition to design professionally logo for (FEFYG), that reflect the philosophy of main idea of the forum**
- **The International Exhibition & Conference for Infrastructure for New and Sustainable Cities in Africa & Middle East (Industrial – Agricultural – Urban Communities), 17-19 October 2017, Cairo international convention center (C.I.C.C)**
- **Organizing Graduation Day for the faculty of Engineering: (GDP 2016)**
- **The National Campaign for Civilization Rights to Build Civilization (NCCRBC) with Academy of Scientific Research and Technology (ASRT).**
- **Green Worship House Competition with HBRC.**
- **Participating in the Cairo International Exhibition of Innovations.**

2. Human Resources

Members of FECSFS

- Prof. Ahmed Rashed; Founding Director of the CSFS (engineering)
- Prof. Husam Bakr Assistant Director of CSFS (engineering)
- Prof. Mohamed El Attar (Board Member) (engineering)
- Prof. Ayman Othman (Board Member) (engineering)
- Dr. Hesham Safwat (Board Member) (engineering)
- Dr. Marwa Adel (Board Member) (engineering)
- Dr. Walaa Salah (Board Member) (engineering)
- Dr. Hassan Refaat (Assistant Lecturer)
- Arch. Eman Toullibah (Research Assistant)
- Arch. Salma Mohamed Fathi (Admin Assistant- Research Assistant)

3. Physical Resources

Equipment's available	Quantity	Description
Camera	1	Used for Centre activities documentations
Computers	3	For Centre Studies
Disks	4	
Screen	1	For presentations
Small table for meeting	1	
Chairs	7	

4. Publications

1.1. Overall publication output

Journal Papers:

1- Prof. Ayman Othman

Khalil, M.H.M, Elsaay, H. A. I. and **Othman, A. A. E.** (2018). Talent Management As A Novel Approach For Developing Innovative Solutions For Egyptian Heritage Communities Development: A Literature Review. *International Journal of Architectural Research*, Vol. (11), No. (3), pp. 132-145

Othman, A. A. E. and Abdelwahab, N. M. A. (2018). Achieving sustainability through integrating risk management into the architectural design process. *Journal of Engineering, Design and Technology*, Vol. (16), No. (1), pp. 25-43.

Othman, A. A. E. and Elsaay, H. (2018). Adaptive Reuse: An Innovative Approach For Generating Sustainable Values For Historic Buildings In Developing Countries. *Organisation, Technology and Management in Construction: An International Journal*, Vol. (10), pp. 1-15.

2- Dr. Walaa Salah

Ismaeel, Walaa S E, and Marwa Adel Elsayed. 2018. "The Interplay of Environmental Assessment Methods; Characterising the Institutional Background in Egypt." *Journal of Environmental Assessment Policy and Management* 20 (1): 1850003-1-1850003-1850027. doi:10.1142/S1464333218500035.

Ismaeel, Walaa S E. 2018. "Midpoint and Endpoint Impact Categories in Green Building Rating Systems." *Journal of Cleaner Production* 182. Elsevier Ltd. doi:https://doi.org/10.1016/j.jclepro.2018.01.217.

3- Dr. Marwa Adel ELSayed

El-Sayed, M. A., & Mohamed, N. M. (2016). Ecological Threshold As An Approach for Balancing Carbon Metabolism in Cities. *43International Journal of Environmental Engineering-IJEE*, 3(1). Retrieved from http://seekdl.org/journal_page_papers.php?jourid=125&issueid=188

Marwa DABAIEH, KENAWY, I., SALAH, W., & **El-Sayed, M. A.** (2016). Carbon mapping for residential low carbon retrofitting. *Advanced Technologies for Sustainable Systems*. 79–91. Retrieved from https://link.springer.com/chapter/10.1007%252F978-3-319-48725-0_9

El-Sayed, M. A. (2018). Land Suitability Analysis As Multi-Criteria Decision Making To Support The Egyptian Urban Development. *International Journal on: Proceedings of Science and Technology, (Resourceedings of Science & Technology)*, 1–11. Retrieved from <http://www.ierek.com/press>

Ismaeel, W. S. E., & **El-Sayed, M. A.** (2018). The interplay of environmental assessment methods. *Journal of Environmental Assessment Policy and Management*. Retrieved from <https://www.worldscientific.com/worldscinet/jeapm>

Conference Papers:

1- Prof. Ayman Othman

AlNassar, N., Othman, A.A.E. and Elsaay, H. (2018). Investigating The Architect's Role Towards Enhancing The Sustainability Of The Construction Supply Chain In Developing Countries. Proceedings of the Green Heritage: Chance – Change – Challenge, the British University In Egypt, Cairo, 6-8 March 2018, pp. 82-114, ISBN: 978-977-490-500-1.

Hassan, N., Elsaay, H. A. I. and Othman, A.A.E. (2018). Investigating The Competency Of Architects Towards Satisfying The Needs Of The Industry In Egypt. Proceedings of the Green Heritage: Chance – Change – Challenge, the British University In Egypt, Cairo, 6-8 March 2018, pp. 407-451, ISBN: 978-977-490-500-1.

Mahmoud, N. A., Othman, A.A.E. and Elsaay, H. A. I. (2018). Risks Associated with Adaptive Reuse of Heritage Buildings in Egypt: A Literature Review. Proceedings of the Green Heritage: Chance – Change – Challenge, the British University In Egypt, Cairo, 6-8 March 2018, pp. 487-517, ISBN: 978-977-490-500-1.

Daoud, A. O., Othman, A., Robinson, H. and Bayyati, A. (2018). Towards A Green Materials Procurement: Investigating The Egyptian Green Pyramid Rating System. Proceedings of the Green Heritage: Chance – Change – Challenge, the British University In Egypt, Cairo, 6-8 March 2018, pp. 575-598, ISBN: 978-977-490-500-1.

2- Dr. Walaa Salah:

Elsayed, Marwa Adel, Marwa Dabaieh, Walaa S E Ismaeel, and Inji Kenawy. 2018. "TOWARDS A FOSSIL FREE ENERGY PRODUCTION USING GIS MULTI-CRITERIA DECISION-MAKING SUPPORT TOOL." In GREEN HERITAGE CONFERENCE CHANCE – CHANGE – CHALLENGE 6-8 March 2018 , The British University in Egypt, 164–183. Elain Publishing Company.

Geneidy, Omar, and Walaa S E Ismaeel. 2018. "INVESTIGATING THE APPLICATION OF THE THREE DIMENSIONAL WALL BUILDING TECHNOLOGY IN EGYPT." In GREEN HERITAGE CONFERENCE 6-8 March 2018 , The British University in Egypt, 681–696. Elain Publishing Company.

Ismaeel, Walaa S.E., and Doaa Salaheldin Ismail Elsayed. 2018a. "GREEN HERITAGE ASSESSMENT AND BENCHMARKING; CASE STYDY: SABIL MOHAMED ALI." In GREEN HERITAGE CONFERENCE 6-8 March 2018, The British University in Egypt, 657–680. Elain Publishing Company.

Ismaeel, Walaa S.E., Ahmed Rashed, and Eman Toulubah. 2018. "TO BE OR NOT TO BE: THE NATIONAL GREEN PYRAMID RATING SYSTEM." In GREEN HERITAGE CONFERENCE 6-8 March 2018 , The British University in Egypt, L–LXII. Elain Publishing Company.

Marwa Adel Elsayed & Walaa S.E. Ismaeel, 2017. Using Cognitive mapping to link the Gap between Urban Designer and space user. In PLEA 3-5 July 2017, VOL 1, Design to thrive, Edinburgh, p. 449-459,

Walaa S.E. Ismaeel (2017), Critical analysis of Green-certified buildings' objectives and dispute resolution strategies through contract writing, ARCHCAIRO7, March 27-29, Cairo, Egypt, conference proceedings ISBN:2017/7302

Walaa S.E. Ismaeel (2017), Life cycle approach for Green Heritage assessment and benchmarking, Sustaining Built Heritage' Workshop held in Luxor from the 22nd to the 25th of February, accepted paper

Walaa S.E. Ismaeel (2017), special panel about ‘Green Heritage’, paper with title; ‘Green Heritage assessment and benchmarking’, Virtual Heritage Cairo’s 1st International Conference (VHC 2017): “Sustaining Heritage in the Digital Age: Towards Virtual Environments for Middle East’s Cultural Heritage”, 20-21 Feb 2017, <http://www.virtualheritagecairo.com/wp-content/uploads/2016/12/Virtual-Heritage-Cairo-International-Conference-2017-Book-of-Abstracts.pdf>

3- Dr. Marwa Adel ELSayed:

Walaa S.E. Ismaeel, **El-sayed, M. A.**, M. D. and I. K. (2016). Using GIS as a decision making support tool for LEED credits LEED Location and Transportation and Sustainable Sites categories. In *PLEA2016 Los Angeles -Cities, Buildings, People: Towards Regenerative Environments.* Los Angeles.

El-sayed, M. A., & Ismaeel, W. S. E. (2017). Cognitive mapping as a link between the urban designer and space user. In L. Brotas, S. Roaf, & F. Nicol (Eds.), *Proceedings of 33rd PLEA International Conference Design to Thrive Edinburgh, 2th-5th July 2017* (p. VOL 1 449-459). Retrieved from www.plea2017.net

El-Sayed, M. A. (2017). Integrated Framework for Establishing Community Based Ecotourism, Case Study Egypt. In H. Elsharkawy, S. Zahiri, & J. Clough (Eds.), *International Conference for Sustainable Design of the Built Environment, SDBE 2017* (pp. 690–701). London. Retrieved from <http://newton-sdbe.uk/conferences/sdbe-conference-2017/>

Helmy, M. I., **ElSayed, M. A.**, & Mahmoud, A. A. H. (2016). Model for suitable locations to appropriate sites for logistics areas Using Geographic Information System. In Egypt 2016. *Second International conference on the sustainability and future “Chance – Change – Challenge”* (pp. 280–286). Cairo, Egypt: Elain Publishing House.

Farghali, O., & **El-Sayed, M. A.** (2016). Impact of Active Urban Design on Human Obesity to achieve healthy residential active spaces. In Egypt 2016. *Second International conference on the sustainability and future “Chance – Change – Challenge”* (pp. 42–48). Cairo, Egypt: Elain Publishing House.

K. Amer, S., & **ElSayed, M. A.** (2016). Practicing new methods and techniques to enhance site selection for ecotourism lodges. In Egypt 2016. *Second International conference on the sustainability and future “Chance – Change – Challenge”* (pp. 202–207). Cairo, Egypt: Elain Publishing House.

Ayman, A., & **El-Sayed, M. A.** (2016). Sustainable urban development in historical areas to encourage tourism. In Egypt 2016. *Second International conference on the sustainability and future “Chance – Change – Challenge”* (pp. 196–201). c: Elain Publishing House.

Abd Ellatif Fouad, A., & **El-Sayed, M. A.** (2016). Implementation of active urban design to create a dynamic interactive neighborhood in Egypt. In Egypt 2016. *Second International conference on the sustainability and future “Chance – Change – Challenge”* (pp. 185–191). Egypt: Elain Publishing House.

Assem, H., & **El-Sayed, M. A.** (2016). Heritage Public Spaces for Cultural Events through the Use of GIS Technology: The Case of El Azhar Street-Cairo. *Sustainable Vital Technologies in Redefining Advanced Technologies for Sustainable Systems.* (Vol. 1, pp. 1–8). Retrieved from [http://www.bue.edu.eg/pdfs/Research/ACE/5 Online Proceeding/3 Smart Heritage-2 \(SBNE03\)/Redefining Heritage Public Spaces for Cultural Events through the use of GIS Technology.pdf](http://www.bue.edu.eg/pdfs/Research/ACE/5 Online Proceeding/3 Smart Heritage-2 (SBNE03)/Redefining Heritage Public Spaces for Cultural Events through the use of GIS Technology.pdf)

Marwa DABAIEH, Inji KENAWY, Walaa SALAH, **El-Sayed, M. A.** (2016). SBNE15-055-024 Carbon mapping for residential low carbon retrofitting. In Y. Bahei-El-Din & M. Hassan (Eds.), *Advanced Technologies for Sustainable Systems*. The British University in Egypt, Cairo, Egypt.

El-Sayed, M. A. (2017). Land Suitability Analysis As Multi Criteria Decision Making To Support The Egyptian Urban Development. In Archcairo 2017 *Building Innovatively Interactive Cities Building Innovatively, 17th international Conference*. (pp. 457–472). Cairo, Egypt. Retrieved from archcairo7.cufe.edu.eg

El-Sayed, M. A., Dabaieh, M., Ismaeel, W. S. ., & Kenawy, I. (2018). Towards A Fossil Free Energy Production Using Gis Multi-Criteria Decision-Making Support Tool. In A. Y. Rashed (Ed.), *Green Heritage Conference. Chance - Change - Challenge* (pp. 164–183). Cairo, Egypt: Elain Publishing House.

Shalaby, R., & **El-sayed, M. A.** (2018). Fostering Sustainable Development Through Integrating Geographic Information System In The Application Of Strategic Environmental Assessment Process. In A. Y. Rashed (Ed.), *Green Heritage Conference. Chance - Change - Challenge* (pp. 117–137). Cairo, Egypt: Elain Publishing House.

Books:

1- Dr. Marwa Adel ElSayed

El-Sayed, M. A., Mahmoud, A. H. A., & El-Barmelgy, I. M. (2015). Land Suitability Analysis for Urban Green Areas Using New Methods and Techniques. Cairo, Egypt: LAP LAMBERT Academic Publishing (August 25, 2015). ISBN-10: 3659410721, ISBN-13: 978-3659410727. Retrieved from https://www.amazon.com/Suitability-Analysis-Urban-GreenAreas/dp/3659410721/ref=sr_1_1?s=books&ie=UTF8&qid=1492514685&sr=1-1&keywords=land+suitability+analysis+for+urban+green+areas

5. Research Grants

Civilization Right to Build Civilization Campaign: **Basic Data about the initiative**

Partner	Academy of Scientific Research and Technology
Duration of the project	One year
Principle investigator of the project	Prof. Ahmed Rashed- Director of Frouk ElBaz Centre for Sustainability and Future Studies (CSFS)
Start Date	12 November 2017
End Date	11 November 2018
Budget	1086750 LE
Number of team members	9 persons

Background about the initiative

The project proposal (Civilization rights to build civilization) was submitted in September 2016, and activated on 12 November 2017 within the projects of the national initiatives of the Academy of Scientific Research and Technology and the Farouk El-Baz Center for Sustainability and Future Studies at the British University in Egypt.

The main objective of the project is make full use of the scientific research to emphasize on the Egyptian right to get a certain amount of the profits achieved by those who exploit the Egyptian culture heritage whether they are companies, museums, individuals, etc. As part of their moral responsibility towards the original heritage which faces many challenges.

As the Egyptian civilization is considered one of the greatest civilizations in the world, millions and millions of people and countries become fascinated by the Egyptian heritage, such state of passion has created what is known as Egyptomania, not only this but also the science of Egyptology has become one of the most important sciences which is being taught in different Universities and Research Centers all over the world

This state of passion for the Egyptian heritage has motivated big number of countries and wealthy persons to be very keen to acquire samples of the Egyptian heritage, so hundreds of thousands of Egyptian cultural artifacts were taken out of Egypt by different ways, some of them might sound legal, such as division and gifting for political goals such as

strengthening relations with certain countries, also selling the Egyptian tangible heritage was officially allowed until 1983. on the other hand some of the Egyptian artifacts were taken by illegal ways including theft and smuggling, the issues which led to the fact that big number of international museums all over the world became full of thousands of Egyptian artifacts, not only this but in some cases complete temples were gifted to a certain country like the Egyptian temple known as Dendur temple which dates back to the Roman era, this temple was handed down to the United States in 1965 in recognition of their effort to save the Nubian temples.

The issue isn't just limited to the original Egyptian artifacts which are displayed in the international museums, but also includes those private companies and individuals who get financially benefited from selling souvenirs that took the form of ancient Egyptian heritage.

In view of all what have been mentioned above, the center of Farouk El-Baz for Sustainability and Future Studies has decided to work on this case through deliberations, researches, symposiums, conferences and scientific articles.

Due to its importance, the Academy of Scientific Research accepted to sponsor the idea to become one of the national projects for the year 2017/2018

The activities of the project:

Since the beginning of the project, many activities have been carried out in order to achieve 3 main objectives which are:

- 1- Addressing the largest possible number of Egyptian Citizens to define the campaign and its objectives and current and future steps.
- 2 - Formation of a positive public opinion towards the campaign and raising awareness of the importance of this issue and the role of members of society towards it.
- 3 - Increase the number of supporters of the campaign and take advantage of their suggestions.

These activities can be divided into the following:

1. Organization of big number of public events (Workshops and seminars) in a wide geographical scope including (Cairo –Alexandria – ALDakkhliya – Al Gharbia – Al Sharkia - Fayoum - Minya - Assiut - Sohag - Qena - Luxor – Aswan- Al Zakazek)
2. Media interviews (TV interviews – press Releases)
3. Start recording a documentary Movie about the campaign.
4. The design of a Logo for the campaign
5. Preparation for the local national competition (including the design of competition's website and content)

6. Technology Transfer

Graduation project Day:

Organizing Graduation Day for the faculty of Engineering: (GPD 2017)



Engineering Graduation projects are the final stage for academia and the start stage of real life. It reflects an investment of ideas and future options for Egypt to achieve the challenges of sustainable development. GPD 2017 is an annual event that facilitates the opportunity for the best future engineers to present and fully explain their projects to the elite members of engineering community from all over Egypt.

Within Egypt's vision 2030 and the challenges of developing sustainability, the ideas and scenarios of different engineering disciplines will be presented during the GPD 2017. The event creates a dialogue between ideas and real needs of market and industry. All the engineering departments are working under one important theme which is the green infrastructure.

Under the Auspices of

Mr. Mohamed Farid Khamis
Chairman of the Board of Trustees
The British University in Egypt

Prof. Ahmed Hamad
President
The British University in Egypt

Engineering Graduation Day
Organized by
Faculty of Engineering

GPD 2017
Faculty of Engineering
**GRADUATION
PROJECTS DAY**



29 September 2017




Chairman
Prof. Maguid Hassan
The Dean of Engineering
The British University in Egypt

Event Coordinator
Prof. Ahmed Yehia Rashed
Director of FECSPS, the British University in Egypt

Departmental Coordinators
Architecture: Prof. Ayman Othman
Chemical: Prof. Shabab Salih
Civil: Prof. Magid Moscos
Electrical: Prof. Fatma Alshoubki
Mechanical: Prof. Nabil El-Tayeb
Petroleum: Prof. Aziz Mahmoud

Organizing Committee
Dr. Marwan Adel
Dr. Amr Hany
Dr. Basim Ahmed
Dr. Hany Badr El-Dien
Dr. Zaki Badin
Arch. Abdouhanna Toussil
Arch. Mohamed Hassan

About the Day
Engineering Graduation projects are the final stage for academia and the start stage of real life. It reflects an investment of ideas and future options for Egypt to achieve the challenges of sustainable development. GPD 2017 is an annual event that facilitates the opportunity for the best future engineers to present and fully explain their projects to the elite members of engineering community from all over Egypt.

Key Dates
Project/Poster Submissions: 30/08/2017
Event: 19/09/2017

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Graduation Project Day Aim:
Within Egypt's vision 2030 and the challenges of Developing sustainability, the ideas and scenarios of different engineering disciplines will be presented during the GPD 2017. The event creates a dialogue between ideas and real needs of market and industry. All the engineering departments are working under one important theme which is the green infrastructure.

BUE Vision:
To become the leading broad spectrum teaching and research university in the Middle East and Northern Africa (MENA) offering a British ethos of higher education with a range of UK partners and other global partners providing internationally recognized quality degrees that develop the knowledge and skills to help our students shape and lead their countries.

BUE Mission:
To promote cultural, economic, social and technological development through the creation and dissemination of new knowledge via research and capable graduates, educated to the best UK academic standards, who are independent learners.

Research and Graduations of different departments

Architecture
Overview: The Architectural Engineering Department is addressing the issues of sustainable development in both the research and design projects in a way that links academic studies with the quality of life and practical needs.

Selected Research Projects:

- Talent Management: A Novel Lean-Integrated Approach to Maximize Creative Heritage Communities Development in Egypt
- Integrating GIS (Geographic Information System) as a supporting tool in the application of SEA (Strategic Environmental Assessment) process in regional planning in Egypt.
- Post occupancy evaluation: assessing the influence of heating interior design on patients' satisfaction in health care facilities.
- Regenerative architecture: an efficient approach for thermal comfort inside economic housing projects in Egypt.
- An evidence based approach to enhance the mental health treatment in Egypt through Architecture.
- Wall Building Utilising 3D Printing Technology in Construction Projects.

Selected Design Projects:

- Lu-Topic: Luxor's **BlackStone** Cultural City.
- Renovation of Bimaristan: 21st Bimaristan Wellbeing and Meditation Center.
- Rashed Correctional Institute ... A New Vision for Prisons Design.
- Performing Arts and Media Complex.
- New Age Correctional Facility.
- Rashed International Airport.
- Health Temple General Hospital.

Chemical
Overview: Chemical Engineering Department is aiming for the design of processes that convert raw materials into finished valuable products through an economically, safely, and environmentally acceptable way. The department's graduation projects reflect this strategy in a way that links academic research with industrial needs.

Selected Research Projects:

- Preparation and characterization of decorative and heat insulating floor tiles for building roofs.
- Preparation and characterization of bullet-proof vests and shields based on polyamide fibers.
- Development of metal/metal oxide nanostructures modified electrodes for water electrolysis applications.
- Study the effect of compositions (PIONA) on the octane numbers of environmental **gasoline**, of reformate, **isoparaffins**, and hydrocracked naphtha blends by using gas chromatography analyses.

Selected Design Projects:

- Design of natural gas plant for aromatics BTX.
- Reamping of a refinery crude oil distillation unit.

Civil
Overview: The graduation research and design projects within the Civil Engineering Dept. are focused on solving real structural and construction challenges. Research at the Department is targeting areas such as; new construction materials, new construction techniques for infrastructures, smart structures, reliability of structures, sustainable design against seismic loads, recycling and innovative construction systems.

Selected Research Projects

- Fuzzy Control on 9-Degree of Freedom Systems Using MR Dampers.
- Effect of Different **Autopilot** parameters on Pavement Attitude.
- Stochastic** Failure Mode Effect **and** Critical Analysis SPMCEA on Emergency Projects.
- Calc** Based **Gas** using Sodium Hydroxide.

Selected Design Projects

- Structural Design of Reinforced Concrete Structure.
- Design of Steel Communication Tower.

Electrical
Overview: The graduation research and design projects within the Electrical Engineering Dept. are mainly targeted to address current technological challenges and prepare the students to contribute directly to advancements in applied science and technology. A main focus of the Department is to invest time and effort in researching renewable energy sources, especially solar energy and hence a great proportion of the graduation projects address the photovoltaic grids and their optimizations.

Research Projects:

- Agile RF Filters for Spectrum Sharing and Sensing
- A Comparative Study on Maximum Power Point Tracking Techniques for Photovoltaic Systems
- PV applications

Design Projects:

- Kinect Controlled Robot Car
- iOT for smart parking lots
- Design of an Automated Solar Tracking System

Mechanical
Overview: Graduation projects at Mechanical Department focus on a range of Design and Research projects related to innovative solution for problems around us. The Projects focus on the advanced topics in the applied Engineering, Science and Technology subjects. Following are samples of mechanical graduation and research projects:

Selected Research Projects

- An experimental study of a semi-spherical solar collector as an alternative solar collector design.
- Investigating the Effect of MW/CNT/Water Nano fluid on the efficiency of a thermosiphon Flat-plate solar collector.

- Experimental Analysis of Water Condition for **and** Industrial Gear Box Transmission.
- Wind Tunnel Testing of Airfoils for **and** Wind Turbines.

Selected Design Projects

- Design and control of an automated carpet warehouse.
- Design of an autonomous seed dispenser with object avoidance capability.
- Design of a Water Cool Package Unit.
- Design of a Mobile Friction Stir Welding Machine.
- Design of a Portable Burnishing Machine.
- Energy Saving for Using Excess Steam in Boiler to be used for Hot Water Absorption Chillers – Oriental Weavers.
- Design, Manufacturing and Performance assessment of a parabolic trough solar collector system under Egyptian climate.
- Design, manufacturing and flight testing of a small UAV capable of performing simple missions.

Petroleum
Overview: The Petroleum Engineering and gas Technology Department design and graduation projects addresses the profound new economic and technological changes sweeping the international oil and gas industry, and prepares graduates to meet the imposing challenges of the global petroleum economy. The department has strong links with both industry and government, maintained by the growing awareness of the need for an interchange of advice and ideas.

Selected Research Projects:

- Enhanced reservoir characterization. Effect of tortuosity, porosity and hydrocarbon saturation on reservoir characterization.
- Chemical Adsorption in enhanced oil recovery.
- Formation Evaluation using open hole logging tools Application.
- Reserve Estimation & Reservoir Evaluation.
- Comparison between wireline logging logs Verses Logging while drilling logging logs reliability.

Venue
Building A: Faculty of Engineering the British University in Egypt

This day was prepared by the Centre of sustainability and future studies at the British University in Egypt, and under the supervision of the dean of the Engineering University, as the centre started by creating a GIS database for all the faculty departments' choosing projects to create a map showing these locations and the integration between all the faculty departments



Afterwards the center members have created a template for all the research projects and distributed it for all the members to summarize their researches with this template. Concerning the design projects it was left free for the students to choose the best display that suites their projects



After collecting all the design and research projects from the whole departments the center members have created a booklet that gather all the design and research projects.

Finally a team from the center took a visit to building A where the day held and they created a layout plan for all the department to be able to display their projects.

On 19th of September the day was held successfully, and representative from the Egyptian syndicate came this day and discussed all the students and he was very grateful to the BUE staff for supervising such unique projects.

7. Community Engagement

7.1 GREEN HERITAGE CONFERENCE



Under the Auspices of
Mr. Mohamed Farid Khamis
Chairman of the Board of Trustees
The British University in Egypt.

Prof. Ahmed Hamad
President
The British University in Egypt.

3rd International Conference
Organized by

Farouk ElBaz Centre
For Sustainability and Future Studies

GREEN HERITAGE
Chance – Change – Challenge
Call for Papers

Conference from 8th to 8th of March 2018
BUE, El Shersouk City

Honorary Chairman
Prof. Yehia Bahi-El-Din
Vice President
Research & Postgraduate Studies
The British University in Egypt.

Conference Chairman
Prof. Ahmed Y. Rashed
Director of ICCSIS
The British University in Egypt.

Conference International Coordinator
Prof. Mohamed G. Abdelmonem
Director, Global Heritage Research
Nottingham Trent University.

Guest of Honour
Prof. Farouk ElBaz
Distinguished Professor Emeritus
Boston University.

Prof. Mahmoud Sakr
Director, ASST

Prof. Mohamed Jambaw
Director, BSA, ASST

Arch. Rawan Badran
Faculty, BSA & ASST

Prof. Khaled ElZahedy
Director, ASST

Keynote Speakers

Prof. Zahra M. Salama University of Strathclyde
Prof. Christopher Conze Northumbria University
Prof. David Greenwood University of Leeds
Prof. Steve Garity University of Strathclyde
Dr. David Cranston The Arts Collections
Prof. Mohamed Yousof Director of NIWAC
Prof. Helen Ouda Director of NICE
Prof. Gad ElGhadi University of Leeds
Prof. Stefan Selim Nottingham Trent University
Prof. Hilda Liang

Organizing Committee

Prof. Hosam Baki Dr. Mohamed ElAdar
Prof. Ayman Ghannam Dr. Hesham Refaay
Dr. Marwa Adel Dr. Wafaa Saleh
Dr. Zaid Khalifa Dr. Al-Assem
Dr. Hassan Refaat Eng. Rawda El-Maghraby
Eng. Omar Al-Masalmeh Eng. Fatma AbdelNasser

About the Conference

Sustainable development is based on four defined pillars: Environment, Economics, Society and Culture.

The conference focuses on discussing heritage sustainability. The strands beyond the traditional aspects of heritage preservation and site guarding to cover the relevance and importance of the sustainable development in heritage context. Green and sustainable heritage has become a key aspect in achieving sustainable development. It offers the vision towards broader and wider scenarios, that involve new business opportunities, culture and economic change as well as new legislative frameworks.

Key Dates

Conference Call: 30th August 2017
Abstract Deadline: 1st November 2017
Abstract Appearance: 15 November 2017
Paper Submission: 5 January 2018
Paper Acceptance: 20 January 2018
Receipt of Final Paper: 15 February 2018

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Facebook: Green Heritage Conference
<https://www.facebook.com/groups/4103280321667>

Conference Aim

The conference aims to present and discuss the ideas of green heritage and initiate sharing a bottom-up approach by supporting the governmental policies, initiatives as well as other international initiatives and strategies.

The conference call is open for academic, higher-education and research institutions, NGOs and small businesses to contribute, develop and present new ideas and research to enhance our approach towards the heritage environment.

Papers are encouraged, but not limited to the following themes and topics:

- 01-Heritage and Governance for Sustainability
- 02-Heritage and Society
- 03-Heritage and Environment
- 04-Heritage and Economics
- 05-Heritage and Culture
- 06-Heritage and Education for the Future
- 07-Heritage and Cultural Tourism
- 08-Preservation of Historic Buildings and Structures
- 09-Other Related Topics

Scientific Committee (International)

- | | |
|--------------------------|---------------------------|
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Scientific Committee (Egypt)

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| Prof. Basim Kamel | Prof. Chab Ouda |
| Prof. Emran El-D | Prof. Emran El-Masalmeh |

- | | |
|----------------------------|----------------------------|
| Prof. Fatma Abu-Isah | Prof. Gemra Elghohary |
| Dr. Gehan Nagy | Prof. Hany Ayad |
| Prof. Hassan Abdel-Salam | Prof. Hisham Adel |
| Prof. Hisham Gasse | Prof. Hassan El-Badrawi |
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| Prof. Magdy Hesham | Prof. Magdy Yousof |
| Prof. Magdy Rashed | Prof. Marwan Fawzi |
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| Prof. Mohamed Ali | Prof. Mohamed Assem Hammad |
| Prof. Mohamed Yousof | Prof. Mohamed Bayad |
| Prof. Mostafa Ghannam | Prof. Nabil El-Deyeb |
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| Dr. Rabah Baki | Prof. Rawda Kamel |
| Prof. Roshdy Adia | Dr. Samir El-Feld |
| Dr. Samir Shoukry | Prof. Shaban Taha |
| Prof. Sherif El-Khalil | Prof. Sherif El-Atia |
| Prof. Shereen Hamed | Prof. Tarek Faragha |
| Prof. Wafaa Yousof | Prof. Yasser Ibrahim Sakr |
| Dr. Yasser Sabry Elgohary | Dr. Yasser Mahgoub |
| Prof. Yasser Mansour | Prof. Zaid Shark |

Official Language
The official language of the conference is English.

Publications
Conference Proceedings
All Papers will be reviewed by two members of the Scientific Committee. Accepted papers will be published in one called Conference Proceedings with ISBN number.

Book Publication
Selected Papers of high quality and innovative research and in line with the editorial guidelines will be published in the Edited Book Digital Technologies and Green Heritage, Perception, Psychology and Ethics of Digital Heritage. This book will be published with Springer.

Special Issue of Academic Journal
High quality papers will be collated for a Special Issue on Green Heritage, which is to be coordinated by the Conference Chair Professor Ahmed Rashed, and will be published by Leeds Beckett University in the United Kingdom.

Special Issue with Architectural-JAR
International Journal of Architectural Research. The special issue will be developed for 2018-2019 or the selected papers from the Conference will have special section within the regular issue of the journal.

Panel discussions
Panel discussions for special issue will be organized by Universities, Institutions, Government, Organizers and Research Centers.

Topic	Organization
Adaptive reuse for historical heritage	Cairo, Governorate
Buildings after relocating them to the New Capital City	Preservation of Cairo Heritage

Registration
Registration fee covers conference attendance, coffee breaks, lunches and proceedings. Registration fee includes cost of the gala dinner, which will be a separate booking.

	Before 15 January 2018	After 15 January 2018
International*	5,000	5,000
Egyptian*	1,000	1,000

(*Undergraduate students get 50% off)

Bank Details
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About the Centre

Academic teaching and research are considered an important catalyst to reach strategic national development. It should be connected to the latest scientific findings and encourage research on local problems as well. The British University has always been keen on encouraging academic research and establishing strong connections with industry. Moreover, the Farouk El Baz Centre of Sustainability and Future Studies (FECSFS) is taking responsibility for such a vital role for the department of Architecture. The aim of (FECSFS) is to support BUE to be a university to lead by creating the culture of sustainability and achieving Egyptian Vision 2030 for sustainable development. Hence, the FECSFS has worked for the past period in many different studies and issues related to sustaining the Egyptian heritage. The FECSFS worked for the past period in many different studies and issues related to sustaining the Egyptian heritage. (Background with the different actions of the Centre from the CSFS reports). We used to concentrate on the 95% of Egypt out of the Valley. Through the academic year 2016/2017 the Centre concentrated on the 5% and the “Green Heritage” was the aim and the theme. The Graduation Projects for Y4 Architecture Department and dissertation for 2016/2017 with the same title, and the different workshops and schools will have the same theme.



- **Farouk ElBaz Centre and Community Participation:**

Within the Academy of Scientific Research and technology, Egyptian syndicate, The Housing and Building National Research Centre, Cairo Governorate, Luxor Governorate and Most of the Public Universities and National Centres the centre organized and shared with workshops and symposiums to support the community and the youth in different levels. Now one of the main activities of the centre will be by Prof. Farouk ElBaz is how to build the institutional capacity through the young generations.

- **The conference was held in collaboration with the following institutions and universities:**

- **Cairo Governorate**
- **Academy of Scientific Research and Technology**
- **Housing & Building National Research Centre**
- **National Research Institute of Astronomy and Geophysics (NRIAG)**
- **Nottingham Trent University**
- **University of Leeds**
- **Leeds Beckett University**
- **Northumbria University**

Why the green heritage:

- To adapt the heritage environment to accept the proposed actions.
- Most Heritage site are already in slums areas or even uncontrolled
- The quality of life with the intelligence of collective conscious
- With the basic questions social – economic – environmental - culturally – heritage and administrative

Conference Aim:

The Conference aims to present and discuss the ideas of Green Heritage and initiatives shaping a bottom up approach for supporting the governmental priorities and other International initiatives and challenges. Moreover, the “Chance, Change and Challenge”

event is an opportunity to learn from the International experiences and from the Egyptians all over the world to support Egypt's heritage.

The conference was open for academics, higher-education and research institutions, NGOs, and small businesses to contribute, via a bottom-up approach, to the present efforts and support in order to develop advanced methods to adapt the heritage environment.

More than 50 abstracts was reviewed 35 accepted for publication covered the following themes are:

- 1- HERITAGE AND GOVERNANCE FOR SUSTAINABILITY
- 2- HERITAGE AND SOCI
- 3- HERITAGE AND ENVIRONMENT
- 4- HERITAGE AND ECONOMICS
- 5- HERITAGE AND CULTURE
- 6- HERITAGE AND EDUCATION FOR THE FUTURE
- 7- PRESERVATION OF HISTORIC BUILDINGS AND STRUCTURES
- 8- HERITAGE AND CULTURAL TOURISM

About the Conference

Sustainable development is based on four defined pillars; environment, economics, society and culture. The conference focuses on discussing heritage sustainability. The concept extends beyond the traditional aspects of heritage preservation and safeguarding to cover the relevance and significance of the sustainable development definition. However, sustainable development brings heritage concepts to another dimension, as it establishes social aspects. Acting as one of the key aspects for the achieving sustainable development. It is moving towards broader and wider scenarios, where it becomes often the driven forces for commerce, business, leisure and politics.

The conference of Green Heritage (Chance-Change-Challenge) is the third international conference for the Centre. This comes as a continuous development process for previous undertaken actions. The conference is in cooperation with several national and international academic and research institutions. The event will cover the following pillars of promoting sustainable green heritage projects.

About 400 scholars, researchers and young people attended the conference from Egypt and the world. Over the course of the three days of the conference, there were 15 key speakers: Dr. Farouk El-Baz, Global Architect Rasem Badran, Housing and Construction Research, Prof. Amr Farouk, Vice President of the Academy of Scientific Research, Prof. Dr. Hatem Ouda National Institute of Astronomy, Dr. Gad ElQadi Institute of Marine Sciences, David Greenwood University of Northumbria, Prof. Chris Gorse University of Leeds , Dr. Steve Gartney University of Leeds, Prof. Mohamed Gamal Nottingham Trent University, Prof. Dr. Husam Al-Waer Dandy University, Prof. Gehan Salim University of Leeds, Dr. Reham Arram Governorate of Cairo. The conference was accompanied by three panel discussions related to the theme of green heritage, with partners from the state, namely the Academy of Scientific Research and Technology, the Housing and Construction Research Center, and Cairo Governorate.

Opening Session on 6 March 2018:

The speech of the Conference included: Prof. Ahmed Rashed word which was focusing on the goal of the conference and the importance of the timing that have been chosen to discuss this important issue and the conference is a step to complete other steps taken by the British University in Egypt through the center of Farouk Baz for sustainability and future studies in the framework of sustainable development will be followed by steps. And that the conference confirms the compatibility with the government's efforts to support sustainability within the framework of the vision of Egypt Sustainable Development 2030.

Dr. Yehia Bahi Al-Din, Vice President of the British University for Scientific Research and Graduate Studies, said that the conference is the third of the Farouk El-Baz Center for Sustainability and Future Studies as part of achieving the goals of sustainable development 2030. The university has an agenda for changing the future of Egypt, Develop quality clean energy education, clean water and preserve green heritage.

Prof. Ahmed Hamad, President of the British University in Egypt, spoke about the University's pride in hosting the Green Heritage Conference and that the University stresses the importance of scientific research based on high quality. From the university that science

is the locomotive of progress in Egypt, announcing the opening of "scientific oasis of the University"

Then, Dr. Hatem Oda, President of the National Institute of Astronomical and Geophysical Research, spoke about the role of the Observatory and the Institute in preserving the heritage, technologies and projects, and the practical and scientific dimension of participation in the Green Heritage Conference

In his speech, Dr. Khaled Al-Zahabi, President of the National Center for Building and Housing Research, confirmed the partnership with the Farouk El-Baz Center for Sustainability and Future Studies at the conference and the design competition of building greenhouses with the criteria of the Green Pyramid to achieve Egypt's Vision 2030. A qualitative leap in the future of Egypt, pointing out that the Green Pyramid urges the shift from normal roads in construction to sustainable buildings and environmentally friendly, stressing the importance of work and submitted to the community.

Dr. Amr Farouk, Vice President of the Academy of Scientific Research and Technology, addressed the National Initiative for Civil Rights to build a civilization and support academia for scientific research and community service in all that can prove the concept of green heritage.

In her speech on behalf of the governor of Cairo, Dr. Reham Arram reviewed several challenges of Cairo governorate towards preserving the distinguished heritage and discussing all ideas that allow conservation and re-employment of heritage buildings and buildings of ministries after their transfer to the new administrative capital within the framework of the vision of the green heritage.

The speech of Mohammed Farid Khamis, Chairman of the Board of Trustees of the British University in Egypt, said that the university is working towards achieving its goal of becoming a leader in higher education and scientific research in the Middle East and North Africa. For British academic degrees so that it can build up new generations. He also pointed out that the importance of green heritage is the cornerstone for realizing the goals of sustainable development, taking into account the need to overcome challenges related to

pollution, industrial change, infrastructure and others. Farouk El-Baz Centre for Sustainability and Future Studies British University in Egypt plays an important and effective at the local and regional role, and helps to achieve sustainable visions and projects on several levels.

The scientific session and speakers of the scientists on 6 March 2018

The aim of the conference is to build youth and ideas in scientific research and non-traditional initiatives. Professor Christopher Gorss, University of Leeds, UK, lectured and spoke as Director of the Leeds Institute for Sustainability, President of the Built Environment Center and Professor of Construction and Project Management at Leeds Beckett University. On the Green Heritage concept in the UK for the purposes of several research projects in the field of energy, sustainability and performance building. The lecture was followed by a lecture by Prof. Gad El-Qadi of the National Institute of Astronomical and Geophysics Research, who spoke about his field and its relation to heritage and preservation of the heritage of sunken monuments during his presidency of the Institute of Marine Sciences. He reviewed the project of technique and heritage in three dimensional dimensions in collaboration with Nottingham Trent University, Farouk El Baz for sustainability and future studies.

Sessions of scientific discussions on the first day

During the activities of the conference, seven workshops were held to discuss the published scientific researches. 28 research papers were discussed over the course of three days and the researchers interacted in presenting ideas for the preparation of the recommendations of the green heritage.

On the first day two seminars were held in parallel, the first workshop was chaired by Prof. Christopher Grose and Professor Gehan Nagy and the following topics were discussed:

- 1- Heritage approach between reality and ambition.
- 2- Promote sustainable development through the integration of geographic information systems into the application of the strategic environmental assessment process.
- 3- Environmental management: An introduction to green investment in heritage environments.
- 4- Towards the production of clean energy using GIS as a decision support tool.

The second workshop was chaired by Prof. Dr. Steve Garrity and Prof. Germin El Gohary.

The following topics were discussed:

- 1- Improve memories and diverse identities to overcome the destruction of heritage.
2. The studio as an environment for sustainable learning courses.
- 3 - Study the effect of cooling walls in Egypt on the basis of a structural design program
- 4 - Study the efficiency of architects towards the needs of the construction industry in Egypt.

As an approach to quality education and industry management: from the point of view of national reference and academic standards.

The second day March 7, 2018

The first session on the second day 7 March 2018:

The first session started with a presentation by Prof. Ahmed Rashed on the first day's summary, followed by the second day of the lectures and the first day of discussion. The second day was followed by the first lecture by Prof. Steve Garrity a professor of architecture from the University of Leeds, He spoke about "the future challenges to preserve the heritage structure to be sustainable from the point of view of the structural engineer and all that can be expressed by the lack of clarity of vision and expectation of the heritage buildings with a presentation of the basic experience of Fontaine Abbye, UK, and what are the challenges facing conservation engineers and recommendations for the future"

The second lecture was delivered by Prof. Gehan Salim from University of Leeds and spoke about the preservation of heritage and its sustainability, with reference to the preservation of the heritage of the railway in Egypt (Ramses station) and the United Kingdom (York Station). After them, Dr.Galal Osman, Vice President of the World Wind Energy Association, and how to reach 100% of the use of renewable energy. And with the speech of Prof. Mohamed Youssef, former Minister of Technical Education, about a ministry that was introduced and abolished in 6 months, and how to prepare the technical manpower to preserve and achieve the green heritage at the level of industrial, commercial, agricultural and tourism technical education to reach the targeted sustainable development. An Assistant Lecturer from the Faculty of Business, Economics and Political Science, Noha

Abdulrahman, stressed the importance of sustainability reports in all areas of the labour market.

The first part of the day was concluded with a speech by Prof. David Greenwood, Professor of Construction Project Management at the College of Engineering and Environment, University of Northumbria, UK, and spoke about the report of the United Nations World Commission on the Environment known as the Brundtland Report, which focused on critical issues of development impact and human settlements. Adding that the code of the Green Pyramid was started from 2009 to 2010. The first draft of the Green Pyramid Classification System was issued in May 2010 and was issued in December 2010. He then explained his pride in participating in this work in order to stimulate and increase awareness and dialogue about sustainability, Sustainable Green wishes success to all participants in the conference and its sponsors and will be a future participant in the development and preparation of the green heritage

Scientific discussion sessions on the second day

On the second day two seminars were held in parallel, the first workshop was chaired by Prof. Germin El Gohary and Dr. Husam Al-Waer. The following topics were discussed:

1. Risks associated with the reuse of heritage buildings in Egypt.
2. Job evaluation: Determining factors affecting the learning environment in educational facilities A special reference for primary school students
3. Studying the application of 3D wall construction technology in Egypt.
4. Evaluation and Comparison of the Green Heritage Case Study: Sabil Muhammad Ali.

The second workshop was chaired by Prof. Husam Bakr and his Gehan Selim. The following topics were discussed:

1. Participatory approach to the revival of the new Aleppo.
2. Towards purchasing green materials: Investigating the Egyptian Green Pyramid as an evaluation system
3. Reciprocal relations of the visitors' learning identities.
4. Heritage tourism as one of the partners of sustainable societies: a case study of the city of Rashid.

The third day 8 March 2018

The first session on the third day 8 March 2018

On the third day of the conference, a speech was delivered by Prof. Ahmed Rashed about what happened on the first day, second day, and what can be associated with the third day. Then a word by the architect Rasem Badran talking about his idea and his concept of green architecture and how to deal with environmental architecture and urban fabric and address its problems and how every environment of any kind of different kind of desert or hot or dry can be addressed by the materials located in the same environment and how the consumer modernity as building glass buildings and then protected by materials fabricated And not present in that environment is the opposite of green architecture, also talked about ancient Cairo and its buildings and its great history and how it was built in an excellent environmental manner that respected human comfort, and talked about the buildings of architect Hassan Fathi and we can develop the idea of ancient environmental architecture concept and modern thought suited to our times and He stressed the importance of putting the green architecture in the urban fabric and climatic treatment. He concluded his message by thanking him and wishing him to be present at the conference and wishing him success. The meeting will be held at another time.

The lecture was followed by a lecture by Dr. Husam Al-Waer from the University of Dundee, UK, on how to rethink basic or master planning and how, if monitored and managed from the outset, many environmental problems are later reduced to sustainability and quality of life. The problems currently present in the community are caused by thinking in a way that does not fit the problem. Instead of quantitative construction, construction is based on a sound, safe and environmental basis, which will lead to fewer or fewer problems in the future. From the perspective of only experts.

Scientific discussion sessions on the third day

On the third day three panel discussions were held in parallel, the first panel was chaired by Professor Germin El Gohary and Professor Dr. Husam Al-Waer discussed the following topics:

1. Evaluating Cairo's historical environmental performance: preserving values and improving energy efficiency.

2. Discuss the role of the architect in promoting the sustainability of the supply chain construction in developing countries.
3. Leadership in Building: Identifying the basic competencies of the project manager for sustainable buildings.
4. Model structure as a proposed solution to population growth
5. Heritage: To be or not to be green, that is the question.

The second workshop was chaired by Prof. Husam Bakr and Dr. Reham Arram. And The following topics were discussed:

1. Environmental efficiency of the use of smart stones in rehabilitation projects for heritage sites.
2. The use of smart technology in preserving the ancient Egyptian effects of environmental impact
3. Methods and mechanisms of green conservation on urban heritage in Egypt
4. The proposed methodology towards the thought of compatibility with the environment and conservation of heritage
5. Sustainable Development and Management of Built Cultural Heritage: The Egyptian Issue.

The third workshop was chaired by Prof. Doaa Salah and Dr. Neamat. And The following topics were discussed:

1. Rehabilitation of heritage: Urban places in the places of religious heritage through the concepts of green architecture.
2. Towards a better educational process: the relationship of creativity in the design process and its role in the development of society
3. New techniques in the renovation of old buildings in Cairo, a study of the case of Quneib mosque with spears.
4. Badger from the past.
5. A three-dimensional picture of architecture and more.

- Keynote Speakers

Prof. Farouk ElBaz



Dr. Farouk El-Baz is the honor Chairman of Farouk Elbaz Centre for Sustainability and Future Studies at the British University in Egypt. Dr. Farouk El-Baz is Research Professor and Director of the Center for Remote Sensing at Boston University. He participated in NASA's Apollo program (1967-72) as Secretary of the Lunar Landing Site Selection Committee, and Chairman of Astronaut Training in Visual Observations and Photography. In 1973-1982 he established and directed the Center for Earth and Planetary Studies at the Smithsonian Institution, Washington DC and served as Principal Investigator of the Earth Observations and Photography Experiment on the Apollo-Soyuz mission of 1975. He served as science adviser to President Anwar Sadat, and is presently a member of the Advisory Council of Scientists and Experts to President El-Sisi of Egypt. His honors include NASA's Apollo Achievement Award, the Nevada Medal, the Egyptian Order of Merit - First Class, and the Geological Society of America Distinguished Career Award. He is a member of the U.S. National Academy of Engineering.

Arch Rasem Badran



Founder/Partner of DAO-dar al omran architects -planner-engineers Architect/Urban Planner in Amman Jo & Riyadh KSA& other branches in the Arab worlds. Rasem Badran who graduated in Architecture from the Former West Germany in the late sixties, inherited and steamed his talent from his father, a well-known Islamic Artist in the Muslim. He is recognized in the Middle East as the Reference Encyclopedia of Modern Islamic Architecture. His magnificent achievements are very much evident throughout the Middle East, and well recognized worldwide. In early seventies he was involved professionally in many prestigious projects in West Germany such as Munich Olympic Stadium Complex 1969-1972 -and others (such as Elementa competition 72 -won with the joint German team before he returned back to Jordan (1972) to explore the hidden values of the local culture. Badran's works are based on a methodological approach in defining Architecture as a continuous dialogue between contemporary needs and environmental, cultural, and historical inherited cultural values.

Prof. Mahmoud M. Sakr (Egypt): President of the Academy of Scientific Research and Technology (ASRT)



Prof. Sakr is working actively on restructuring of ASRT with great focus on science, technology and innovation (STI) indicators and policies, benchmarking of national research institutions, empowering of young researchers, science and society, establishment of national research networks, innovation clusters, knowledge and technological alliances (PPP), establishment of technological incubators, technology transfer and localization, and deepening of local manufacturing. He supervised the preparation and application of several technological roadmaps and strategic studies, and deeply involved in preparation of Egypt STI strategy 2030. Sakr had several National Positions such as Acting President of ASRT (Sept. – April, 2014) and Vice President of the Academy (Dec. 2009 – Jun. 2012), Executive Director of Science and Technology Development Fund (June 2012 - March 2014). During his tenure as ED STDF, he succeeded to establish joint fund with South Korea, Jordan, UK and Russia and make radical changes in STDF funding mechanisms through establishment of several programs, namely Incubation, National Challenges, Short Term Fellowship, Center of Scientific Excellences, Demand Driven Fund and Target Calls.

Professor Christopher Gorse (UK) Leeds Beckett University



Chris is Director of Leeds Sustainability Institute, Head of the Centre for the Built Environment and Professor of Construction and Project Management at Leeds Beckett University. He is an Engineering Professors Council Member, Chartered Builder, Vice Chair for the Association of Researchers in Construction Management, leads research projects in the energy, sustainability and building performance. Chris holds research positions within International Energy Agency projects, has reported on government led research and provided evidence to all party enquiries held at the Houses of Parliament. He is an established author with publications in management, law, energy, construction and refurbishment. On site, he operated as an engineer and project manager working on both building and civil engineering projects and continues to undertake technical, management and legal consultancy within the built environment.

Dr. Mohamed Youssef: Former Minister of Technical Education



Working for more than twenty six years on issues related to the construction industry aspects divided into two main parts. Each part has different characteristics and different challenges. The first part is around fourteen years where my experience focused mainly on the bridges as well as buildings construction industry. It included working as a site engineer, technical office engineer, technical office manager, project manager then as an assistant to the bridges department manager. The challenges focused on learning and applying engineering applications and solving the consequent problems. These problems were mainly on the level of projects and/or department level. The second part of experience took a managerial perspective, where he was responsible for marketing, business development, information technology, and finally training, he also been working as a board member in many companies for the last 3 years and been also working in many ministerial committees that are related to human resources development with special emphasis on TVET (Technical and Vocational Education and Training).

Professor Steve. W. Garrity: University of Leeds



Steve Garrity is a UK-based chartered engineer with 40 years' combined experience in academia and industry. Graduating in civil engineering from the University of Nottingham in 1997, he gained much of his practical experience with an international firm of consulting engineers and the bridge engineering department of a major UK public highway authority. Following a brief spell as a senior lecturer at the University of Bolton, he moved to the University of Bradford in 1991 where he became Head of Civil and Environmental Engineering (1997 - 2002). Between 2002 and 2009 he ran Garrity Associates, an independent firm of consulting civil and structural engineers working in the UK and overseas. Between 2007 and 2010 he was also a Visiting Professor in Civil Engineering Design at the University of Bradford. In 2009 he was appointed to the Hoffman Wood Chair in Architectural Engineering at the University of Leeds, UK. His current academic work includes teaching at undergraduate and postgraduate levels and research into the performance enhancement of masonry buildings and arch bridges. Steve is the recipient of the Chartered Institution of Highways and Transportation (CIHT) Babbie Premium Award (1992) and the Institution of Structural Engineers (IStructE) Cass Hayward Prize (1993), Sir

Arnold Waters Medal (1995) and the Lewis Kent Award (2004). He was the co-recipient of an Institution of Civil Engineers (ICE) Historic Bridge and Infrastructure Winner's Award in 2004 and a Commendation in 2009. He was President of the International Masonry Society between 2013 and 2015 and is currently a member of the IMS Council. Since 1993, has also served on numerous ICE, IStructE, CIHT and Hong Kong Institution of Engineers committees or panels.

Prof. Khaled ElZahaby (Egypt)
President of Housing and Building National Research Center, Egypt



Prof. ElZahaby graduated from Faculty of Engineering, Cairo University in 1985 with honors. He obtained his M.Sc. from Cairo University in 1989 and his Ph.D. from Civil Engineering Dept., North Carolina State University, Raleigh, NC, USA in 1995. Upon graduation, he has joined HBRC as a research assistant and was promoted in different positions and he is currently HBRC Chairman. He also was the recipient of the ICC Global Award for the year 2013, September 2013, Atlantic City, NJ, USA and has been a geotechnical consultant for almost 30 years. He is currently serving as an assessor for geotechnical consultants, Egyptian Syndicate for Engineers. Prof. ElZahaby is also the Principal Investigator for a project funded by the STDF (Egypt) and NSF (USA) concerning the assessment of seismic hazards on wind turbines. A case study is for a wind farm in Zaafarana, Egypt. Along with his professional duties, Dr ElZahaby is chairman and editor of the HBRC Journal, published by Elsevier and editor in Chief, Innovative Infrastructure Solutions, Published by Springer.

Prof. Hatem Oadh (Egypt):
President of the National Research Institute of Astronomy and Geophysics NRIAG,



Egyptian Expert Egyptian permanent mission to the Comprehensive Nuclear Test Ban Treaty Organization, Vienna. CTBTO got his PHD from Institute of Applied Geophysics, Munich University (LMU), Germany. 1990-1993. Post-Doc fellow, (JSPS) Dept. of Earth and Planetary Science, the University of Tokyo, Japan 1999-2001 and worked at the Dept. of Archaeology, King Saud University, Riyadh, Kingdom of Saudi Arabia;

Prof Odah was the in the board member of many respected organizations such the German Geophysical Society, the Japanese Rock-magnetic Society, the International IAGA and IUGG Societies, the American Geophysical Association., the German Geophysical Society, the Japanese Association of properties of magnetic rocks and others.

Prof. David Greenwood: Northumbria University



David Greenwood is Professor of Construction Project Management in the Faculty of Engineering and Environment, Northumbria University, UK. He is director of BIM Academy (Enterprises) Ltd., an industry-academia joint venture spin-out company, a member of the Board of Construct-IT, and former Chair of the Association of Researchers in Construction Management (ARCOM). He has published over 100 academic journal and conference papers and has authored and co-authored several textbooks. He has over twenty years of experience in consulting, training and lecturing around the world for commercial and governmental organisations and is an active promoter of better practice in the construction industry. Prof .David Greenwood was one of the experts who formulated the Egyptian Green Pyramid Rating system on 2010 when he was representing The Sustainable Cities Research Institute, Northumbria University, UK.

Professor Galal Osman (Egypt): Vice President: World Wind Energy Association



Full Professor Since 1975 Renewable Energy Systems, Mansoura University ; Egypt Ministry Higher Education & Scientific Researches ; 1977-1983 Solar Energy Dept KISR- Kuwait Institute For Scientific Research Kuwait- sabbatical Leave ; 1981 MBB First CSP Plant in MENA 1000 KW ; 1986-1987 UCLA- Energy Conservation in Residential Buildings ; UNESCO.WB consultant Solar Electricity ; 2003-2004 Director ICTP -HEEP higher Education Enhancment Project ; Egyptian Ministry Of Higher Education-WB Funded ; President Egypt Wind Energy Association since 1986 Present ; V. President WWEA World Wind Energy Association since 2002-Present ; Attend all WWEA conferences from 2002 to 2017 ; Founder V President WWEI 2006, Kingston Ontario – Canada ; WWEI- World Wind Energy Institute; Chair WWEC World Wind Energy Conference 2011 ; ISES Board Member 2011-Present.

Prof. Mohamed Gamal AbdelMonem: Nottingham Trent University



Professor Mohamed Gamal Abdelmonem is Chair in Architecture and the Director of the Centre for Architecture, Urbanism and Global Heritage (CAUGH) at Nottingham Trent University. He is the co-founder and lead of University's Research Theme: "Global Heritage: Science, Management and Development". A Visiting Professor at the Royal Academy of Arts in London and the University of California at Berkeley, Gamal has led design studios and Architecture history at Queen's University Belfast and the University of Sheffield. He is a Fellow of the Royal Society of Arts and the 2014 recipient of the Jeffrey Cook Award of the International Association for the Study of Traditional Environments (IASTE). His recent books include 'Peripheries: Edge Conditions in Architecture' (Routledge 2012), "The Architecture of Home in Cairo: Social-spatial practice of the Hawari's everyday life" (Routledge, 2015), and the forthcoming "Architecture, Space and Memory of Resurrection in Northern Ireland" (Routledge 2018). Most recently he guest edited a Special issue of the International Journal of Architectural Research (IJAR, 2017) on "Architectural and Urban Heritage in the Digital Era".

Prof. Gad El-Qady (Egypt)

The National Research Institute of Astronomy and Geophysics



Prof. Gad El-Qady, is a Professor of Applied Geophysics working in the area of application of Geophysical techniques for, but not limited to, Environmental investigations, archaeological, geotechnical, groundwater, geothermal investigations. Currently, Prof. El-Qady is working as head of Geomagnetism division at the National Research Institute of Astronomy and Geophysics (NRIAG). During 2017 he was the acting president of the National Institute of Oceanography and Fisheries (NIOF), Egypt. He got his PhD from Kyushu University, Japan on 2001. Since that time is an active member of the Egyptian Geophysical community. Prof. El-Qady supervised many post graduate students at different Egyptian universities. Prof. El-Qady, is the managing editor of the journal of National Research Institute of Astronomy and Geophysics (NRIAG). He is also a working group committee member of the Electromagnetic induction in the earth (WMIW) that is now Div No. 6 of the IAGA.

Dr. Gehan Selim: University of Leeds



Dr Gehan Selim is an Architect and academic at the University of Leeds. She is also Fellow of The Senator George Mitchell Institute for Global Peace, Security and Justice. She obtained her PhD from the University of Sheffield and held permanent posts in several schools of Architecture at Sheffield and Queen's University Belfast in UK, and United Arab Emirates. She serves on the reviewing committee and editorial board of several international journals and conferences. She has been invited as a guest speaker and Panel Chair at international conferences and public lectures and has a substantial record of high impact publications in highly ranked peer-reviewed journals and edited volumes. She is the author of 'Unfinished Places: The Politics of Remaking Cairo's Old' published by Routledge in 2017. Dr Selim's research covers interdisciplinary methods bridging between Architecture, Urban Politics and Sustainable Heritage bridging between the social (people), the physical (buildings) and the urban (city). Her current research focuses on the socio-spatial aspects of urban design and research fields in liberation politics, resilient cities and geographies of conflict looking particularly at how memory informs post-conflict societies in their everyday practices. Dr Selim is leading several research projects including two grants funded by the Arts and Humanities Research Council in UK on Virtual Cultural Heritage and Spatial Mapping of Urban Conflict.

Dr. Riham Arram (Egypt): General Manager for Cairo Heritage Preservation General Administration-Cairo Governor's Office



Riham Arram is the General Manager and founder of Cairo Heritage Preservation General Administration. Arram is an Archaeologist, with a Ph.D. in Ancient Egyptian civilization and a long experience in tourism field. Captivated by Egyptian history and authenticity of the old city. Arram took the initiative to establish this entity within Cairo governorate organizational structure, and now she is responsible for coordinating and managing projects for rehabilitation and renovation of "Historic Cairo". Slowly but surely, Arram leads a small team of architects, archaeologists and young motivated employees to circulate the concept of heritage preservation among the capital residents.

Dr. Husam AlWaer: University of Dundee

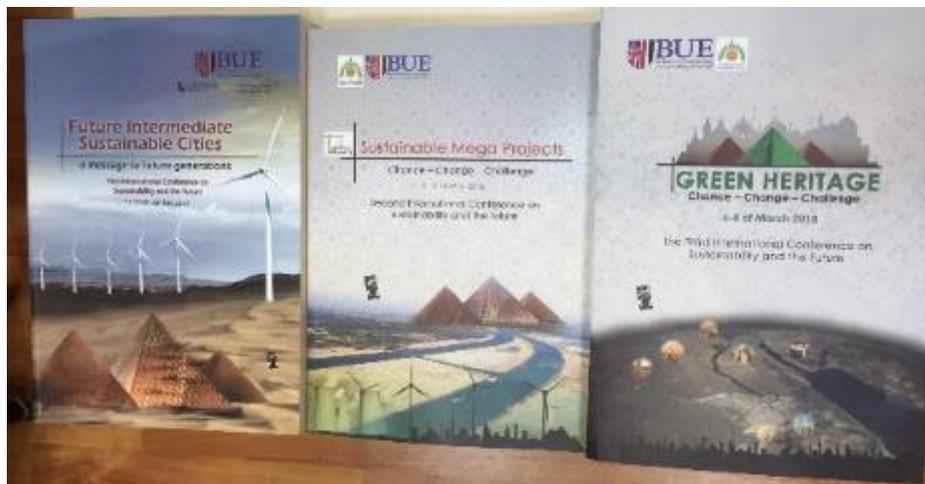


Husam is an URBANIST with a background in architecture, urban planning and sustainability, who writes intensively and speaks regularly on making better places. He is a Senior Lecturer in Sustainable Urban Design and Evaluation in the School of Social Sciences (Architecture + Urban Planning), University of Dundee, having previously researched and taught at Reading and Liverpool universities. Husam’s work has had a demonstrable impact in academia as well as on practice. He has a passionate interest in the future of sustainable/intelligent places, towns and buildings, in particular the development of new thinking on processes and methods to unlock sustainable urbanism.

Husam has gained recognition for providing intellectual leadership in sustainable place making and masterplanning, contributing to emerging theory, practice and technical developments. He has published over 35 peer-reviewed international journal papers, professional reports and books relating to the broad topic of Urban Design, Spatial Planning and Sustainability, including his recent published book “*Site and Composition: Design Strategies in Architecture and Urbanism*” with Bandyopadhyay and Aldallal (Routledge, 2016), and a new international edited book with Barbara Illsley on “*Rethinking Masterplanning: Creating Better Places*” (ICE Publisher, June 2017). He was awarded *both* the 2014 and 2016 Reed and Mallik Ltd Journal Prize for the best paper published in the Journal of Urban Design and Planning.

Pictures related to the Conference:













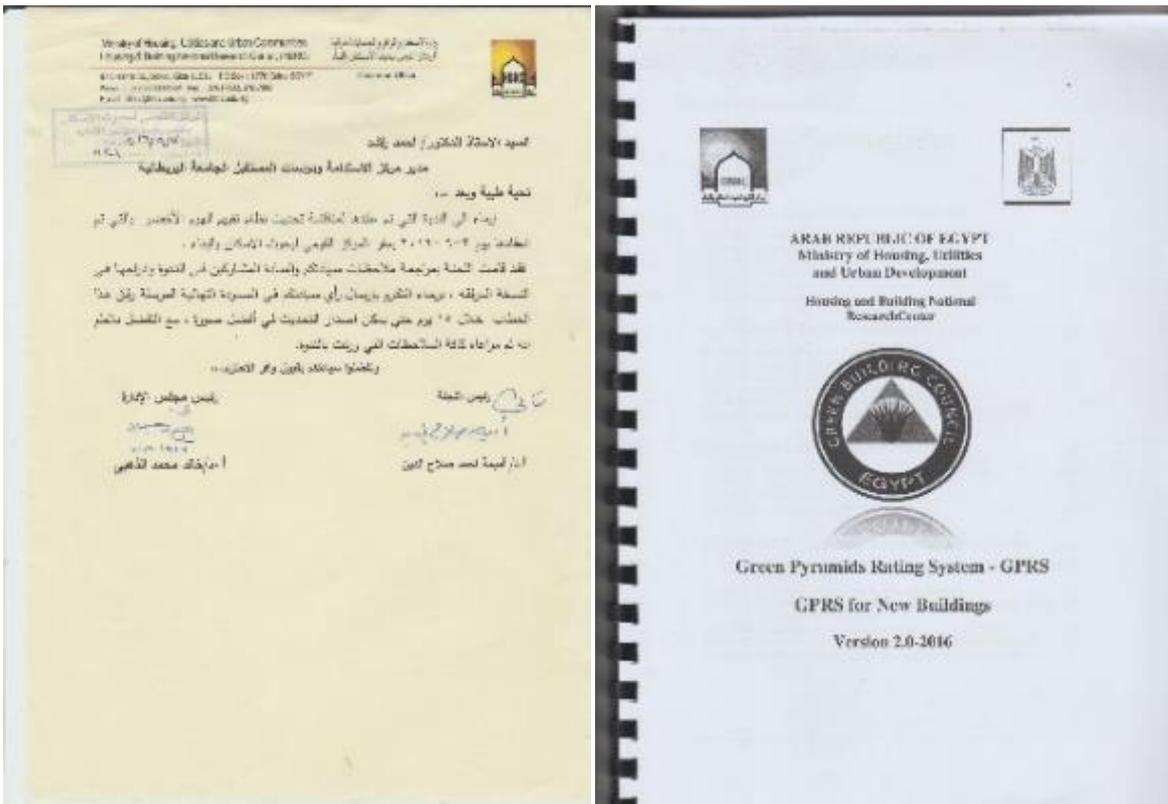


Green Pyramid Rating System

In 2010, the Housing and Building National Research Center In conjunction with The Egyptian Green Building Council have developed Egypt's national rating system known as the Green Pyramids. It represents the contextual adaptation of several international rating systems. It aims at assessing sustainable building performance based on sustainability of site selection, water and energy efficiency, materials selection and construction system, indoor environmental quality, innovation and design and recycling of solid waste. Four certification levels are granted according to the total scoring points of buildings and how much they satisfied all sustainable requirements. These are arranged from the least to the highest level as follows; certified, silver, golden and green certification level.

Application: Green Worship House

The competition aims at designing a green worship house that complies with all sustainable criteria explained in the Green Pyramid rating systems. This comes as a pilot project for expanding the application of the green pyramid rating system in other building types and scales. Hence, applicants are required to investigate the assessment criteria stated by Green Pyramids rating system and apply it in their design projects.



The Philosophy of the Competition

At the time countries around the world are targeting achieving a balance between future requirements and current needs, in order to sustainability principals, Egypt has launched 2030 Vision for the sustainable development of future generations to upgrade the quality

life. Since the issuance of the environment law no. 4 on 1994 Egypt has rules of each linked to its development and environment balance through evaluation studies of the environmental impact including the strategic vision and policies and schemes and programs until the stage of projects. Since the end of 2010 as a complement to studies of the environmental dimension and impact, Housing and Building National Research Centre (HBRC) has been working on work a draft that measuring sustainability in relation to local architecture and urbanization, that draft lead to launching "Green Pyramid", which has passed through multiple steps of discussing by involved scientists and researchers at several levels.



The Main Goal of the Competition

The competition aims to raise awareness of applying “Green Pyramid” to a building in Egypt as a systematic step to identify what can be added or be modified so that it can be applied on future projects in Egypt to reach its main purpose.

As “Allah” The Almighty God has created the universe and its balance in the life cycle of the creatures, we had to ask about the type of the building which can be the first application of the “Green Pyramid”, and, at the same time, the building should be symbolic and a basic need of life which allows the largest number of community members using it daily and continuously, that can help with spreading the culture of sustainable and green buildings, as well allows different levels of alternatives to design. Based on above, the competition will be about designing a worship house according to “Green Pyramid” rules and principles.

The worship house whether mosque or church or temple can range from a small mosque (zawya) to a mosque to an Islamic center, or a small church or a church or cathedral, thus this diversity which is suitable for various design proposals, and affects every community individual to become familiar with the concept of green buildings.

Accordingly, the worship house will take into account all the standards of “Green Pyramid” beginning in site selection, energy, water, used materials, thermal comfort, etc. during its

life cycle process including design, construction, control, and management, in addition to innovation and creativity which are main standards for evaluating participated projects.

Assessment Criteria

Projects are going to be assessed on a sustainable basis that covers environmental, social and economic concerns in building design. Hence, a full set of drawings that describe the concept as well as design developed stages need to be presented along with the Green pyramids checklist and another appendix explaining how each criteria has been approached and justification for the points gained under each criteria.

Organizers

The Housing and Building National Research Centre (HBRC) Farouk El-Baz Centre for Sustainability and Future Studies (FECSFS) The British University in Egypt (BUE)

Important dates

- Announcement date: 1 May 2017
- Registration deadline: 1 July 2017
- Submission: 1 September 2017

Prizes

The competition offers three winning prizes, they are as follows:

- First level “Green Pyramid” with prize 25000 L.E
- Second level “Gold Pyramid” with prize 15000 L.E
- Third level “Silver Pyramid” with prize 10000 L.E

Winners are going to obtain a certification signed from The Housing and Building National Research Center In conjunction with The Egyptian Green Building Council as well as the British University in Egypt.



Results & Awards Event Programme
Green Workshop House Competition
At HBRC: 2 May 2018
Time: 12:30 PM to 2:30 PM

Event Programme		
Opening Speeches		
12:30	12:35	Prof. Khalid ElZohy HBRC Chairman
12:35	12:40	Prof. Ahmed Rashid FECSFS Director
12:40	12:45	Prof. Omama Salah El-din
Sponsors Speeches		
12:45	12:50	Talwaney Matar
12:50	12:55	Arabic
12:55	1:00	Arch/Plan
1:00	1:05	Saad Makram
1:05	1:10	Enmaa
Announcement of Results		
1:10	1:30	Prof. Ahmed Rashid
Awards & Certificates		
1:30	2:10	Distribution of the prizes and certificates
Next Step		
2:10	2:30	Discussion about the future plans for the GPHS
End of Event		

ARDIC ARCHPLAN DESIGN ALMAARAH

- **GWHC – Results & Awards Event:**

On Wednesday, 02 May 2018, the results of the Green Worship House Competition (GWHC) were announced in an event dedicated to it, by the Farouk El Baz Centre for Sustainability & Future Studies (FECSFS) with the Housing and Building National Research Center (HBRC). The event was attended by 19 teams and most of the juries and the HBRC staff.

The event was held at the HBRC in the presence of Prof. Khalid Al-Zahabi, Head of the Building and Housing Research Center, Omaima Ahmed Salah El-din, former head of the Center for Building and Housing Research, Prof. Ahmed Yahia Rashid director FECSFS. As well as the presence of Dr. Saad Makram, the architecture teacher at Mansoura University, and one of the judges and sponsors in the competition.



The event started with a speech by Prof. Khalid Al-Zahabi, who praised the excellent level despite the lack of time, and that all those who participated in the competition are winners. Then Prof. Omaima in her speech said that all those who participated in the competition are the first to start the implementation and use of the standards of the Green Pyramid. Then Prof. Ahmed stressed that the main objective goes beyond the idea of the material award to the participation of the community in establishing the sustainability approach and activating it through the use of the Green Pyramid, and that it is a step within the next steps for sustainable development. He added that the details will be published in the magazine NEXT DESIGN and announced the resumption of the competition and the holding of a new forum coming to share the rest of the groups that did not receive prizes in the new phase of the competition. Finally, Dr. Saad Makram spoke about the importance of the competition in building sustainable development in Egypt through the Green Pyramid, thanking everyone who contributed to the preparation of it, explaining that the fruits of the competition will be spent in the future

The event ended with the announcement of the competition's outcome and the distribution of prizes, Certificates were distributed to all other participating teams, and the following picture has more details about the winners and their grades.

Final Grades for All Teams

#	Team Code	GPS Report - 40%	Architecture Design - 30%	Social Reality Story - 20%	Presentation - 10%	TOTAL	Rank by Total	Ranking by GPS	Certificate	
									Self Evaluation	Actual
1	GWHC01	27	23	28	8	73	3	1st in Gold	GOLD	GOLD
2	GWHC02	27	17	36	8	68	4	2nd in Gold	GOLD	GOLD
3	GWHC03	30	21	35	8	64	8		PLATINUM	SILVER
4	GWHC05	35	20	27	9	81	1	1st in Platinum	PLATINUM	PLATINUM
5	GWHC06	23	30	23	2	54	11		PLATINUM	SILVER
6	GWHC07	22	36	3	8	48	16		/	SILVER
7	GWHC08	21	33	7	7	48	17		/	SILVER
8	GWHC09	25	17	33	8	60	8		/	SILVER
9	GWHC10	19	33	34	5	51	13		CERTIFIED	BRONZE
10	GWHC14	25	9	38	6	55	10		PLATINUM	SILVER
11	GWHC15	21	29	27	8	65	5		PLATINUM	SILVER
12	GWHC18	24	35	35	5	57	9	1st in Silver	SILVER	SILVER
13	GWHC19	36	30	23	6	45	19		PLATINUM	CERTIFIED
14	GWHC20	22	32	34	0	47	18		PLATINUM	SILVER
15	GWHC21	17	33	33	6	49	15		SILVER	BRONZE
16	GWHC22	19	38	27	7	61	7		PLATINUM	BRONZE
17	GWHC23	20	33	31	7	50	14		/	SILVER
18	GWHC24	20	34	31	6	51	12		CERTIFIED	SILVER
19	GWHC25	30	39	36	8	79	2		PLATINUM	GOLD

Report Final = 40%

Group Code	#1	#2	#3	#4	Average
GWHC01	36	22.7	18.1	31.2	27
GWHC02	35	26.6	18.9	26.1	27
GWHC03	28	33	7.7	13.0	20
GWHC05	28	36	38.1	36.1	35
GWHC06	34	24.6	18.7	14.9	23
GWHC07	35	25.2	11.6	15.4	22
GWHC08	35	22.4	11.6	15.3	21
GWHC09	33	30.8	11.6	15.6	23
GWHC10	33	14	9.1	18.5	19
GWHC14	28	23.2	19.2	20.1	23
GWHC15	37	30.8	0.0	18.1	21
GWHC18	37	25.2	12.7	20.4	24
GWHC19	28	22.8	1.9	10.3	16
GWHC20	28	25.2	16.4	17.5	22
GWHC21	27	19.2	8.8	13.3	17
GWHC22	27	21	11.4	16.9	19
GWHC23	26	24.4	11.6	16.3	20
GWHC24	33	14	17.2	15.3	20
GWHC25	35	31.4	28.0	26.5	30

Design Final = 30%

Group Code	#1	#2	#3	#4	Average
GWHC01	16	24.3	12.4	22	19
GWHC02	12	19.8	13	24	17
GWHC03	13	24.6	18	28	21
GWHC05	17	21	16.6	27	20
GWHC06	14	16.5	10	22	16
GWHC07	15	18.9	9.4	19	16
GWHC08	12	11.4	7.6	20	13
GWHC09	11	24.6	8.2	23	17
GWHC10	10	10.5	10.4	21	13
GWHC14	10	3.6	7	16	9
GWHC15	18	19.8	12	26	19
GWHC18	11	12.9	11.2	17	13
GWHC19	10	11.4	2.8	17	10
GWHC20	10	9.6	7.8	19	12
GWHC21	12	13.2	7	20	13
GWHC22	14	23.1	12.8	22	18
GWHC23	10	10.5	8.6	21	13
GWHC24	12	10.5	10.4	22	14
GWHC25	16	23.4	10.6	25	19

Story Final = 20%

Group Code	#1	#2	#3	#4	Average
GWHC01	16	16	16	16	16
GWHC02	16	16	16	16	16
GWHC03	12	14	18	15	15
GWHC05	15	18	17	17	17
GWHC06	14	16	10	14	13
GWHC07	10	0	0	4	3
GWHC08	13	8	0	7	7
GWHC09	10	18	12	14	13
GWHC10	10	16	16	14	14
GWHC14	19	16	18	18	18
GWHC15	19	17	16	18	17
GWHC18	14	14	16	15	15
GWHC19	13	13	12	13	13
GWHC20	13	15	14	14	14
GWHC21	15	12	12	13	13
GWHC22	15	18	18	17	17
GWHC23	10	8	14	11	11
GWHC24	10	12	12	12	11
GWHC25	16	16	16	16	16

PPS Final = 10%

Group Code	#1	#2	#3	#4	Average
GWHC01	8.6	9.3	5.5	7.9	8
GWHC02	8.6	9.2	6.5	7.6	8
GWHC03	7.5	9.6	7	6.1	8
GWHC05	8.8	9.6	8	9.0	9
GWHC06	7.6	0	0	0.0	2
GWHC07	7.6	9.2	6.5	7.1	8
GWHC08	6.6	8.7	6.5	5.8	7
GWHC09	9	9.1	6.5	5.8	8
GWHC10	0	8.7	6.5	4.7	5
GWHC14	0	9	8	5.5	6
GWHC15	9	9.5	7	7.8	8
GWHC18	0	8.4	6.5	6.4	5
GWHC19	4	8	5	6.5	6
GWHC20	0	0	0	0.0	0
GWHC21	4.6	8.1	5	7.8	6
GWHC22	7.6	7.8	5	6.6	7
GWHC23	8.4	9	6	5.0	7
GWHC24	0	9.1	6	7.8	6
GWHC25	8.7	9.4	6.5	6.9	8

It is worth mentioning that the competition started on 28 August 2017 with the aim of activating the application of green building standards in the Arab Republic of Egypt, with the use of the Green Pyramid as a new method in the various fields of architecture to achieve sustainable development and create an integrated green architectural environment with the surrounding environment. The first event of the competition was held at the Green Pyramid Building workshop on 21 November 2017 at the Building and Housing Research Center. The presentations were presented by each team on the second day of the "Green Heritage: Change - Opportunities - Challenge" 7 March 2018 during the day, the arbitration was conducted by the attendees.

Prof. Ahmed Abdeen, Prof. Abbas El-Zaafarani, Prof.. Mourad Abdel-Qader, Prof. Mo'men Afifi, and Dr. Saad Makram participated in the judging, also participated in the judging are the Green Pyramid Revision team from the HBRC. The competition was supported by a vision, thought and prizes from the institutions of Prof. Ahmed Shalaby (development and supported the stage by 50 thousand pounds, including 30 thousand for the competition and 20 thousand for the conference), Prof. Ayman Ashour (Arch Plan and the competition was supported by 30 thousand pounds), Dr. Ashraf Dweidar (Ardic has supported the competition by 30 thousand pounds), Dr. Saad Makram (Makram Designs office has supported the competition with 15 thousand pounds) and Eng. Sham and Eng.Rana (Enmaa has supported the competition by 15 thousand pounds).



7.3 The International Exhibition & Conference for Infrastructure for New and Sustainable Cities in Africa & Middle East (Industrial – Agricultural – Urban Communities), 17-19 October 2017, Cairo international convention centre (C.I.C.C)



INFRA exhibition starts from 17/10/2017 to 19/10/2017 at the Cairo International Convention Centre this exhibition involved so many companies with a great history in the infrastructure field and each company shared their knowledge, techniques, and experience in their field with the new technologies they achieved. Also the British university in Egypt with Farouk ElBaz center for sustainability and future studies entered the area of infrastructure as the only academic institution participated in the event by way of Farouk ElBaz center provides booth for the contribution of the university to the market need to involve new ideas in the academic level for creating a new way of learning for the students and to make their graduation projects valuable by research and meeting the market needs. However, the British university has a new scope of education that shows a great respect to the community and society around the academic environment. There was a team from the BUE: Arch. Radwa ElMaghraby, Eng Islam Mohamed, Dr. Hassan Refaat, Mr. Shady Nady and two graduate engineers were at the exhibition showing their interventions through the graduation projects and they found a great respect from the audience and a great support from the companies. And this what we can call a successful cycle for education and careers to support the society.

In parallel with the exhibition, Farouk ElBaz center held a scientific Conference and discussion for many topics related to the infrastructure among 3 sessions along the 3 days of the event. Prof Ahmed Rashed was the moderator of the sessions among the Event.

First session title

“Sustainable infrastructure of new urban communities”

- Keynote speakers:
 - Prof. Khaled El Zahaby
 - Dr. Hend Farouh
 - Prof. Ayman Ashour



Second session with title

“Suez Canal Project and one and a half million acres”

- Keynote speakers:
 - Prof. Ayman Abou Hadid
 - Prof. Salah Arafa
 - Dr. Hesham Safwat





Third session with title

"Challenges and opportunities for sustaining infrastructure in Egypt, Africa, and the Middle East"

- Keynote speakers:
 - Prof. Mohamed Youssef
 - Prof. Sameh Nouman
 - Dr. Tarek Hatem



8. Proposals

8.1 El Qoseir documentation project presented in The American Research Centre.

Back to the Future

El Qoseir Heritage Documentation and Museum

An applied project on Mr. Kamal El-Din El-Husseini collection
El Qoseir - Egypt

Prepared by
Prof. Ahmad Khaled
Director of Centre of Sustainability and Future Studies (CSFS) at the British University in Egypt
(BUE)
ahmadk@bue.edu.eg
26122238724

Abstract

It is a city in western Egypt, located on the Red Sea coast. It is located 115 kilometers south of Matruh, 115 km north of Marsa Matruh.

El Qoseir has a very deep rooted history, as it was one of the major ports of the Red Sea. This location made it one of the most important ports in Egypt, where many ancient civilizations had or have an impression in the regional African land of which are registered in the records in their historical records in Egypt.

In 1977 Sultan Ismail II built a castle in El Qoseir to protect what was Egypt's most important port on the Red Sea.

El Qoseir also played an important role during the French military expedition to Egypt in 1798 under the command of General Napoleon who visited El Qoseir first, built a fort nearby, and ordered a number of castles, some of which are still standing. The area still a gathering of some ancient buildings.

It was built on the ruins of the 18th century by the French army when it was about 1800. It was built on the ruins of the 18th century.

On top of that, El Qoseir was also a major point of pilgrims heading for Mecca, as well as a significant

As for the historical significance of El Qoseir, it is a rich destination by the nature of its heritage of being a destination for many pilgrims as it is considered as a first class being destination with many beaches, restaurants and wonderful views.





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Project background

In 1977 I was a one of those experts who was responsible for the Restoration of El Qoseir fort, during this time I got the opportunity to visit Mr. Hassan and talk to him and I found out that the local residents of El Qoseir are also keen on the spiritual value of the city as well as its historical, I managed to convince him to create a video film which is considered the only document that shows Mr. Hassan while he was talking about the history and heritage of El Qoseir.

After I got the chance to see the Mr. Hassan's valuable collection which documents the history and heritage of El Qoseir, this collection which includes historical and archeological books some of them were written by Mr. Hassan himself, paintings, video films, and that time I felt that the people of El Qoseir have their heritage, history and origin which is already documented by this valuable collection. And this is the reason which made me motivated to carry out this project to collect and keep all this collection for the future generations.

Since that time I have a dream to document what Mr. Hassan has left (as he died in 1990) by being left in this valuable collection which is but a destruction will represent a major loss. Since that time I started to initiate a Community - led documentation initiative.

Recently I became more motivated when I called Mr. El-Husseini - the grandson of Mr. Hassan and the owner of the house and collection of Mr. Hassan, he told me about his opinion about the project which I started to carry out. Mr. El-Husseini was so happy about the idea of the project because he maintained to me "the collection of Mr. Hassan is being real danger and under the threat which will result in the destruction of the valuable collection.

This proposed project aims to video-tape documentation of Mr. Hassan collection and to produce a comprehensive database of this valuable collection. It will be the initiative in providing the local community of El Qoseir and only with a measure that they can have access to compare, study and compare their culture but also contribute to cultural preservation and revitalization in the area of the red sea.

The main aim of the project

The main aim will include specialized commission headed by Prof. Ahmad Khaled, Prof. Khaled, has participated in different cultural heritage management projects, as he joined in 1997 with a team with in the restoration project of El Qoseir fort which was funded by The American Research Centre in Egypt. After he managed with his team to restore El-Qoseir Fort in El Qoseir - the project which was aiming at providing a model for the locally led participating in restoring their own heritage as well as developing local capacities to carry out their own initiatives in the cultural field's growth.

The main objectives of the project

The main objectives of the project can be summarized as the following points:

1. Save El Qoseir as not only a media center, but also as a historical experience, by creating a virtual city's heritage to keep safe.
2. Restoring the awareness of the local about their history and cultural heritage.
3. Enhance the Public awareness in documentation and conservation of their cultural heritage.
4. Creating a user -friendly for educational and historical information and consulting in digital media.
5. Utilize it as a platform in the public and administrative.
6. To shed the light on the cultural dimension of El Qoseir and attract the attention of cultural personnel workers in the Area.

Reason for choosing to record Mr. Hassan's collection

Since 1978 El-Husseini was not for many important and people presence in El Qoseir city. From in 1978 El-Husseini started to be registered in an archive as Programs Group in El Qoseir, as the project will be become the primary document of the community. He was chosen to be a collection member during the periods (1977-1979) - (1979 - 1984) - (1984 - 1987) - (1987 - 1990). He wrote many books about the El Qoseir and his own family history.

1. El Qoseir city is a rich historical guide about El Qoseir city.
2. El-Husseini and El Qoseir - the main history to "save" Egypt!
3. El Qoseir is a unique.
4. The local use government.
5. The local use government.
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The Budget of the project:

Item	Quantity required	Unit cost	Total LE
1- Procurement - equipment, supplies:			
• high resolution scanner	2	10000	20000
• high resolution digital camera	1	15000	15000
• digital printer	1	10000	10000
2- Lodging for project personnel (3 persons)	50 days	400/day	20000
3- Transportation (domestic air flight)	10 flights	3000 /flight	30000
4- Salaries/Per Diem	3persons	2000/person /Month	60000
5- Other			
• stationery items			10000
• calls and communications			10000
Total			175.000 LE

8.2 The Culture of Sustainability for University to Lead - Egypt 2030 Vision for Sustainable Development

The sustainability area is about balancing the need for social, economic development with the impact on the environment and the nexus between different areas such as energy, water and agriculture or access to electricity and socio-economic development. Sustainability is also becoming a vital area to attract staff members and students since they are more likely to choose a higher education institution that has a purpose that supports a sustainable and inclusive future. This creates the business case for sustainability which can be evaluated from a macro perspective. This provides an international common language and framework, increasingly used to define and measure impacts. It also helps educational institutions to describe their value throughout the value chain and respond to requests that include non-financial measurements and a source of investment opportunities. Investors are in general more concerned with educational institutions' sustainability risk profiles as well as interested in understanding sustainability-related business opportunities. It provides an engagement model internally as well as externally, i.e. both with employees, with customers, investors as well as different societal stakeholders. This framework is used for BUE annual Sustainability reporting as well as highlighting proof points on BUE university website citing; technology, advocacy, innovation and expertise are helping to achieve each one of the Sustainable Development Goals, as well as in our social media channels. It is also a framework to demonstrate our innovation and scale throughout the world with solutions we have deployed in areas related to sustainable development. This forms an example of a top management commitment as well as widespread engagement possibilities for our employees.

Farouk ElBaz Centre for Sustainability and Future Studies at the British University is proud to launch the call for its pilot project to promote the **Culture of Sustainability** in higher education institutions with the ambition to be “a responsible and relevant driver of positive change” for all involved parties. This creates ambassadors roles for our Executive Leadership Team at the launch of this project, and subsequently linked employee volunteer opportunities to one or several of the Global Goals. These efforts have created momentum within the University and across the industry to support achievement of the proposed framework.

Moreover, FECSFS is proud to invite representatives from all Faculties (departments) and Directors of Research Centers to a gathered meeting to discuss the means of achieving this project.

Related activities

- 1- Green Heritage: Chance Change and Challenge Conference: 6 – 8 March 2018
- 2- Green Worship House Competition with HBRC
- 3- The Civilization Rights to build Civilization with ASRT.
- 4- Developmental Corridor and future Generations



8.3 Hire Higher and further education Opportunities and Perspective for Syrians(HOPES):

Questions	Answers
Title of the project	Civilization Builder for Green Syria
Country	Egypt
Name of organization	Farouk ElBaz Center for Sustainability and Future Studies (FCFS), The British University in Egypt (BUE)
Address	18137, BUE
Address (Street and number)	Suez Desert Road
Address (City)	Egypt, Al-Sharakh City
Address (Country)	Egypt
Telephone1	70351, +202 26888888, +202 26888843
Website	http://www.bue.edu.eg
Type of organization	Research university
What is the goal or mission of your organization?	<p>Mission: To promote cultural, economic, social and technological development through the creation and dissemination of new knowledge via research and capable graduates, educated to the best of academic standards, who are independent learners.</p> <p>VISION: To provide an academic environment which encourages and draws together research, learning and teaching and engagement with the social, professional and business communities to produce high quality academic provision.</p> <p>To offer a range of academic programs and a learning environment which is attractive to both Egyptian and international students and which, where appropriate, recognizes the requirements of employers.</p> <p>To provide responsive academic and learner services which give students the best possible experience of higher education and opportunities to succeed.</p> <p>To provide an attractive and accessible university campus environment and range of facilities, both educational and recreational, in the context of a long-term urban strategy.</p> <p>To provide a broad student experience, producing graduates who will be equipped with the skills to continue to learn and develop through their careers and social and cultural experiences.</p>

This is an exemplary position for business and industry across a broad subject range, offering high quality expertise to stimulate and support demand for innovative solutions, knowledge transfer and collaboration in support of economic development.

To integrate a culture across the University which encourages and supports student participation in initiatives, committees and projects with broad responsibilities, including work and placements and new business ventures.

To foster and build new and subsequent strategic alliances with other national and international partners, in order to offer a range of well supported research and learning opportunities.

To recognise staff as a primary resource of the University and to provide an environment of financial support where staff are encouraged and enabled with performance and subsequent opportunities.

To create financial stability, grow the range of income sources supporting the University's mission and ensure cost efficiency.

Where did you learn about the job?

Name Contact: Omar M. Hassanah

Name Supervisor: Research Director, Farouk ElBaz Center for Sustainability and Future Studies (FCFS)

Center: Main

Email: omhassanah@bue.edu.eg

Telephone number: 010 202 2688888

Phone number: 010 202 2688888

Job name: Main (Main International Bank)

Name address holder: Farouk ElBaz Center for Sustainability and Future Studies

City of residence of account holder: El-Sharakh Branch, BUE

Branch: FC

Branch code: 12450000

Branch name: 12450000

Branch type: 12450000

Branch address: 12450000

Branch code: 12450000

Direct female beneficiaries	060
Indirect female beneficiaries	512
Examination	No
Evaluation	Yes

omhassanah@hotmail.com

From: dr@fcfs@bue.edu.eg
 Sent: 22/01/2018 11:41
 To: omhassanah@hotmail.com
 Cc: hopen@fcfs@bue.edu.eg
 Subject: FCFS confirmation of receipt
 Attachment: Application overview.pdf

Subject: Confirmation of receipt of grant application

Dear Dr/Wediam,

We have successfully received your application for FCFS with reference number FCFS-18/588.

Attached you will find the details of your application. By submitting the application you have agreed with the terms and conditions of FCFS.

More information concerning the programme and further procedures is available on www.fcfs-matad.org.

Questions concerning your application? Please contact us through dr@fcfs-matad.org.

Kind regards,

Department Scholarships and Subsidies

This e-mail message, including any attachments, is intended only for the individual(s) named and might be confidential. If it was sent to you by mistake, please do not disseminate or act on the information it contains. We kindly ask you to inform us about the mistaken delivery.



February 13, 2018

FCFS CONFIRMATION

Project title: Civilization Builder for Green Syria

Call for Proposals for Cultural Heritage in the Egyptian Delta (FCFS-18/588) and Modern Education Cooperation and Financing for Tunisia

Reference to the dissemination process: FCFS is a member of the British-Japanese Egypt FCFS network and fully complies with the support submitted by Dr. Ahmed Hassanah, Director for the research and future studies at BUE, and to confirm that the amount of funding is granted to him as a research agency staff (FCFS member) and that it is approved by the FCFS.

Project:

Ahmed Hassanah

Prof. Ahmed Hassanah
 President
 BUE, December 13, 2017



FCFS is a member of the British-Japanese Egypt FCFS network and fully complies with the support submitted by Dr. Ahmed Hassanah, Director for the research and future studies at BUE, and to confirm that the amount of funding is granted to him as a research agency staff (FCFS member) and that it is approved by the FCFS.

8.4 Integration in the development of the urban heritage around the Red Sea. Proposal Presented in KSA.



8.5 Science and Technology Development Fund (STDF):

The Centre of Sustainability and Future Studies (CSFS) at the British University in Egypt (BUE) submit the proposal for developing the tourism industry through “**The Scientific Tourism**” which can invest the scientific research and its enormous potentials for the development of the tourism industry through innovative and sustainable methods and actions, depending on the integration of tourism, scientific research, culture, and leisure based on the civilization of the ancient Egyptians and national heritage at Upper Egypt from Luxor, Esna, Edfo, Kom Ombo, Aswan, Abu Simbel, and Nubian Villages through:

- Chain of actions with the participation of local, regional and global events, in cooperation with the partners, local community, decision-makers, stakeholder, and interested persons from all over the world, these events include scientific conferences tourism, creative competitions, summer schools, camps, and workshops which will target researchers and students form national and international universities and schools, aimed at recreational tourism at the same time.

- Along with collection of information and documentation and conceptualize the ideas of future tourism and sustainable development which aims to upgrade the quality of life in our chosen environments from Upper Egypt.
- In addition to develop local communities, and document national, all those theses aim at supporting tourism on the one hand and documentation and conservation of the cultural heritage of civilization to those Egyptian environments on the other hand, all that with partnership between national institutions, the private sector, the world citizen with the local Egyptian.

With launching of the competitions, a number of various events will be held on different stages of each, these events will ensure the availability of tourists and visitors and scholars to Upper Egypt around the year.

The major objective of this project is the complementarity of efforts, studies, and energies between scientific research and studies, Archeology, tourism, development, architecture, arts and other studies urges the concept of scientific tourism and sustainable development.



9. Collaboration

Through the different activities the centre already had a different collaboration activities and partners in different levels such as

9.1 Scientific Collaboration

World widely, academic research centres are playing a major role for acting as community catalysts to spread knowledge and awareness about sustainability. This aims at transferring the academic research findings, projects and competitions into action. Within such aim the centre participated in many activities in Egypt and Outside Egypt through schools, workshops and conferences (UK, USA, Italy, Germany, China, Jordon, Iraq Saudi Arabia and United Emirates) for issues related to Sustainability, Sustainable Development, and Sustainable Tourism, Green heritage, Green buildings, Green Economy, Conservation of Culture heritage and Civilization rights. Signed agreements, research projects, scientific visits and others were the tools for collaboration. The following successful collaborations have been established;

- Green Worship House Competition with HBRC
- The Civilization Rights to build Civilization with ASRT.
- Developmental Corridor and future Generations

The conference was held in collaboration with the following institutions and universities:

- Cairo Governorate
- Academy of Scientific Research and Technology
- Housing & Building National Research Cente
- National Research Institute of Astronomy and Geophysics (NRIAG)
- Nottingham Trent University
- University of Leeds
- Leeds Beckett University
- Northumbria University

Why the green heritage:

- To adapt the heritage environment to accept the proposed actions.
- Most Heritage site are already in slums areas or even uncontrolled
- The quality of life with the intelligence of collective conscious
- With the basic questions social – economic – environmental - culturally – heritage and administrative

Conference Aim:

The Conference aims to present and discuss the ideas of Green Heritage and initiatives shaping a bottom up approach for supporting the governmental priorities and other International initiatives and challenges. Moreover, the “Chance, Change and Challenge” event is an opportunity to learn from the International experiences and from the Egyptians all over the world to support Egypt’s heritage.

9.1 The conference was open for academics, higher-education and research institutions, NGOs, and small businesses to contribute, via a bottom-up approach, to the present efforts and support in order to develop advanced methods to adapt the heritage environment.

Day 1 panel discussion under “Civilization Rights Campaign”

Civilization Rights DAY ONE



This entitles the initiative for ‘Civilization rights through a Civilized Dialogue’, which accordingly shall include; promoting this case through the (ARST) Academy of Scientific Research and Technology where it is promoted nationally and internationally to build a wide platform of advocates. (Paper). How to guarantee resilience of the civilization rights campaign; financially, institutionally and legally on the long and short terms.

Day 2 the Green Worship Competition

Green Pyramid DAY TWO



The National Competition for designing a Green worship building organized in collaboration with the (HBRC) Housing & Building National Research Center. The competition aims at designing a green worship house that complies with all sustainable criteria explained in the Green Pyramid rating systems. (Paper)

Day 3 with Cairo Governorate

The conservation and adaptive reuse for the heritage ministerial buildings after moving to the new Capital

Cairo Governorate DAY THREE



The conference book consist of 700 pages included all the studies related to the Green Heritage, as well as a vision for future studies in cooperation with the world scientist Farouk

El-Baz for the human development corridor and the axis of Luxor and how to link the civilization of Egypt and the future smart cities to be the event, 2020.



9.2 The national campaign activities carried out by the team of the project from 12 November 2017 to 11 February 2018 (first quarter)

Event	Location	Governorate	Date
introductory seminar on the campaign	Modern University	Cairo	20/11/2017
introductory seminar on the campaign	Faculty of Engineering- Tanta University	Tanta	2017/12/20
introductory seminar on the campaign	Supreme Council of Culture	Cairo	8 – 1- 2018

introductory seminar on the campaign at the book fair	Conferences and Exhibitions Center	Cairo	29 -1 -2018
introductory seminar on the campaign	Nile Museum	Aswan	1 – 2 -2018
introductory seminar on the campaign	Nuba Association	Aswan	2 – 2 -2018
an introductory seminar on the campaign for the Archaeologists	Temple of Kom Ombo	Aswan	3- 2-2018
introductory seminar on the campaign	Public Library	louxor	3- 2-2018
introductory seminar on the campaign	Department of Antiquities in Dandara	Qena	5-2-2018
introductory seminar on the campaign	Faculty of Industrial Education - Sohag University	Sohag	5-2-2018

List of Seminars, workshops that have been implemented since the acceptance of Academy of Scientific Research for the project and before the date of official activation of the campaign (12 November 2017)

Event	Location	Governorate	Date
Participation in the first training forum	Engineers Syndicate	Cairo	15- 7-2017
Participation in a cultural symposium	Egyptian Architecture House	Cairo	18- 7-2017
Participation in The 16 th Architectural Week.	Jordan	Amman	22-7-2017
introductory seminar on the campaign	Jordanian Ministry of Tourism	Amman	25-7-2017

Participation in a workshop	Higher Institute of Engineering	Fayoum	9-9-2017
Participation in the conference` of “restoration and reconstruction”	Engineers Syndicate	Cairo	9-10-2017
Participation in workshop in Dubi	United Arab Emirates	Dubi	11-12/10/207
Participation in the scientific symposium on sustainability issues	Faculty of Engineering, Al-Azhar University	Cairo	26/10/2017
Participation in the scientific symposium	Arab Organization for Administrative Sciences	Cairo	29/10/207
Launch of the Civilization Rights Campaign by the Academy of Scientific Research	Pyramisa Hotel	Cairo	31- 10 -2017

List of Seminars, workshops carried out from the second half of February to March 2018 (after the end of the first quarter of the campaign)

Event	Location	Governorate	Date
introductory seminar on the campaign	Faculty of Engineering - Zagazig University	Sharqiya	18-2-2018
introductory seminar on the campaign at Faculty of Engineering Conference	Fayoum University	Fayoum	25-2-2018
Organizing a session on the Campaign in the Green Heritage Conference	British University In Egypt	Cairo	6- 3 - 2018

introductory seminar on the campaign	Pharos University	Alexandria	13 – 3 -2018
introductory seminar on the campaign	Higher Institute of Engineering in Obor	Cairo	19- 3 -2018
TEDxBUE	British University In Egypt	Cairo	31- 3- 2018
TEDx Zagazig	Zagazig university	Sharkia	14 – 4 - 2018

Media activities

Event	Channel	date
TV Show	3 rd Channel	20-12-2017
TV Show	Nile Cultural Channel	9-1-2018
TV Show	2 nd Egyptian satellite channel	19-1-2018
TV Show	Eighth Channel	2-2-2018

9.3 OTHER ACHIEVEMENT

1- The creation of the logo and Publications materials

Dr. Ahmed Rashed, the principal investigator of the project, has designed a logo that reflects the identity of the campaign and expresses its objectives. He chose one of the most important Egyptian monuments“ Rosetta stone “, which reflects the main theme of Civilization Rights Campaign due to its cultural and economic exploitation by one of the most important museums in the world, the British Museum.

The design of the logo is “ Rosetta stone “ on which the sign of life "Ankh sign" and a “scale sign” were depicted , to reflect the construction of Egyptian civilization and the rights that must be gained by the Egyptian civilization from those who profit from the exploitation of Egyptian heritage respectively

The campaign team also designed and printed number of publications (promotional material) both in Arabic and English format, as part of the campaign plan to achieve a wider spread at all levels.

2- Increasing the number of partners and supporters of the Campaign

The Civilization Rights Campaign has attracted the attention of many private and governmental entities that addressed the team of the Campaign and provide them with all the logistics needed to organize introductory seminars on the campaign and its objective among these entities (the Ministry of tourism - the Ministry of culture – Fayoum University – Minia University- Assiout University – Sohag University – Nile Museum In aswan)

9.4 Farouk ElBaz and Community Participation:

Within the Academy of Scientific Research and technology, Egyptian syndicate, The Housing and Building National Research Centre, Cairo Governorate, Luxor Governorate and Most of the Public Universities and National Centres the centre organized and shared with workshops and symposiums to support the community and the youth in different levels. Now one of the main activities of the centre will be by Prof. Farouk ElBaz is how to build the institutional capacity through the young generations.



أمتة لبعض الزيارات والندوات التي تم عقدها

Cairo International Exhibition for Innovation 2017

مرکز أفریق الیاز للاستدامة و دراسات المستقبل بالجامعة البريطانية في مصر
أحمد یحیی محمد جمال الشیخ عبد الرحمن
الجملة الوطنية لحقوق حضارة لیلاء حضارة
سبلحة

اسم الجهة:
اسم الباحث الرئيسي:
اسم الموضوع:
المجال:

تحت رعاية السيد الرئيس/عبد الفتاح السیسی
رئيس الجمهورية
الأكاديمية البحثية والتكنولوجية
ACADEMY OF SCIENTIFIC RESEARCH
AND TECHNOLOGY

معرض القاهرة
الدولي
الرابع للإبتكار
Cairo International
Exhibition of Innovation
في الفترة من ٢٢ إلى ٢٨ أكتوبر ٢٠١٧
بارز المعارض - مدينة نصر

14

نشاطات وإنجازات الريع المعنوي الأول

9.5 Saudi Commission for Tourism & National Heritage:

The Saudi Commission for Tourism and National Heritage published an article about the vision of Dr. Ahmed Yehia Rashed, Professor of Architecture at the Faculty of Engineering

at the British University in Egypt, Director of the Farouk El-Baz Center for Sustainability and Future Studies, explaining that the sea is a way of cultural communication among the different peoples of the earth, pointing out its role in cultural cross-fertilization across the various eras.

Adding that "If satellites and modern communications technology represent the mechanism of communication and scientific and practical development of the investment of the present and the prospect of the future, the sea has for centuries been (and still is) the mean of communication between all human civilizations, calling for the combined efforts of the countries and peoples of the Red Sea Basin to develop its heritage Urban development and investment in various areas of life, cultural, economic and social. This came in a monthly lecture organized by the Heritage Center of the General Authority for Tourism and National Heritage, in cooperation with the Saudi Society for Heritage Preservation, the Saudi Society for Urban Sciences, the Heritage Foundation, the Architectural Heritage Division of the Saudi Organization for Engineers and the Prince Sultan bin Salman Heritage Hall. The past 9/8/1439 corresponding to 25/4/2018 at the headquarters of the Saudi Society for the Preservation of Heritage in the King Abdul Aziz Historical Center.



In his lecture entitled "Integration in the development of the urban heritage around the Red Sea", Dr. Ahmed Yehia Rashed addressed several axes related to the development of cultural heritage in the Red Sea, pointing to the heritage of this region and its historical and geographical importance and richness in human resources, heritage and nature. He pointed

to the heritage assets and the practical reality in the development of the heritage of this region, and reviewed a number of historical areas in the Red Sea basin such as the short in the Arab Republic of Egypt, and stems in Saudi Arabia, and a number of ancient sites such as The historical Jeddah and Medina Saleh and others, noting that he visited in April this historic city of Yanbu and documented and recorded some scenes that reflect the richness of civilization and its culture.

pointing out that there are a number of axes of heritage sustainability that constitute the economic axis, the social axis, the environmental axis, the administrative and organizational axis, Technical hub, scientific research and training.

Dr. Ahmed Rashed pointed out the need to integrate the role of government institutions with the private sector and the local community in preserving the urban heritage, consolidating its concepts and developing regulations and procedures to increase investment opportunities in urban heritage projects.

Pointing to the comprehensiveness of the objectives of the vision of the Arab Republic of Egypt, 2030 with the vision of Saudi Arabia 2030 in promoting the cultural heritage and investment as an important lever in supporting the economies of countries and development. Also the competition was not an end in itself but a first step to creating a free intergenerational dialogue, which aims to come up with a new approach in the presentation, handling, solutions and writing of history for the future, where scientific research is a basis for creativity and cultural communication.

Giving the call to participate in "the fourth conference for sustainability and future studies 2020", which will be organized under the title of Recovery of civilization ... Chance...? Challenge ... Change.

Presenting also a number of suggestions and recommendations that establish the partnership and support the integration efforts in promoting the urban heritage across the border.

Dr. Ahmed Yehia Rashed also reviewed the efforts of the Farouk Center for Sustainability and Future Studies and presented a brief about the Center's activities in practical research, education, training, initiatives and various plans.

this lecture comes within the plan of the Urban Heritage Center in the Authority aimed at introducing the urban heritage and spreading the culture of its importance and employment through several programs and initiatives, including organizing a series of seminars and lectures which the Center hosted on a monthly basis with the participation of officials, experts and specialists in the cultural heritage in general And urban heritage in particular.

9.6 Collaboration with Saudi commission for Urban Sciences:

An agreement and a memorandum of understanding were signed between Farouk El-Baz Center and the Saudi Commission for Urban Sciences on 26/4-2018 for mutual benefit between the two parties in scientific research, sustainable development and preservation of architectural heritage.



9.7 Graduation Project for Universities:

Civilization Right to Build Civilization Building:

The presented Graduation project to Faculty of Engineering, Architectural department in Zagazig University in 14-4-2018 for 2017-2018 graduation year.

The meeting for representing the idea took about three hours meeting with a number of students, which was held at Zagazig University. Where they discussed the project's requirements and ideas and how to make the building simulates the Egyptian civilization, its history and science, which influenced all the other civilizations.

A project program was presented to identify the most important components of the building on which the success and completeness of the building will be based on.

The aim of the Seminar is to provide the students with detailed information about civilization right building, its role, main objectives and suggested themes.

As well as a two hours lecture was held at The British University in Egypt presented by Dr. Ahmed Rashed and attended by Dr. Ayman Othman and Dr. Marwa Adel to year three in architecture department to give them a background information about their next year graduation project, which will focus on the same topic (Civilization Right building) year 2018-2019.

9.8 Collaboration with Prof. Farouk ElBaz:

9.8.1 First Meeting with Prof. Farouk EL-Baz:

On Friday 8 December 2017 at JW Marriott Hotel Cairo from 6pm to 8pm a meeting with Prof. Farouk El-Baz was held for discussing the following:

First, to know all the members of the Centre with their different generations and specializations, second, to discuss what the Centre can offer to link the studies of the world and communication with the generations and the issues of Egypt for sustainability and future studies and the developmental corridor.

Third, announcement of the Centre in various scientific and practical circles and even within the University of What Will Be Presented by the Centre in its new framework and what includes the value of scientific, media and marketing:

- The Green Heritage Conference: a keynote speakers and partners from international universities and national authorities.
- Civilization Rights Campaign: Supporting various circles - Academy of scientific Research Partnership
- Green Pyramid Competition: National Initiative: Housing and Building Research Partnership
- Reconstruction Developmental Corridor Contest Luxor axis with Luxor Museum tales Competition

To communicate with generations throughout Egypt, at the British University.

The role of Dr. Farouk El-Baz in supporting the Centre at all levels:

- The Centre should be a documentation of scientific, literary and cultural science and thoughts of Prof. Farouk El-Baz.
- The name of Prof. Farouk El-Baz was given to the centre according to the desire of the chairman of board of trustees from the British University in Egypt.
- Scientific, media and marketing support

- o Example of the campaign of Civilization Right and an article in a global magazine and cooperation with the Ministry of Immigration, for example.
- o The Library of Alexandria and Dr. Mustafa El-Feki and participation in all activities March 2018
- o Ideas sprouting and fabricating from Egypt will be invented in Egypt, Egypt and the world
- o We await suggestions that may be unusual and typical
- o There was previously the Farouk El-Baz Foundation for Literacy - but here is the goal of erasing Egypt's illiteracy for the Egyptians with all the potential and opportunities.



9.8.2 Second Meeting with Prof. Farouk EL-Baz:

- A Meeting has been done On Tuesday 3rd of April 2018 at the Marriott Hotel Zamalek, Cairo from 4 pm to 6 pm with Prof. Farouk El-Baz to discuss the achievement of the centre as the following:
 - **What has been done:**
 - 3 conferences were held
 - Future Intermediate Sustainable Cities
 - Sustainable Mega Projects
 - Green Heritage – Chance – Change – Challenge
 - 3 competitions were conducted
 - Taking Leave
 - Hope & Work
 - Green Worship House Competition
 - The actual implementation of the rights of civilization to build a civilization campaign began
 - **As discussed with Prof. Farouk El-Baz a future plans have been decided:**
 - Concept Draft of Green Heritage
 - 2020 Civilization Conference
 - Reconstruction of the development and reconstruction corridor - Luxor axis (exit as an exit to the moon)
 - New Luxor - Energy to build future generations with studies, scientific research and a sound civilizational structure - as part of 2030
 - Smart City - From Egyptology to Technology -
 - Human Rights Campaign Building Competition - Headquarters -
 - Branding Luxor - Luxor Tales
 - University of Civilization in Luxor
 - The vision of a sustainable society in Luxor with young ideas because Luxor is the microcosm of Egypt because it is very rich in its heritage and potential
 - **Proposed:**
 - An award in the name of Prof. Farouk El-Baz
 - Scientific and marketing information and marketing support



9.9 Studies for the Developmental Corridor:

The centre would be the main research centre in Egypt to host Prof. Farouk Elbaz scientific treasure that include all sorts of data that may include remote sensing satellite images, reports, research papers, studies, statistics, ... etc, related to the developmental corridor, and Egypt at large. (We need to ask Prof. Farouk Elbaz to provide an initial list of the available material).

Based on that nature and amount of the material, suitable space, furniture, storage facilities, security equipment, and scientific equipment can be decided.

Such a valuable material would constitute the foundation of several activities including:

Research activities: The centre would initiate in-depth and detailed studies, each focusing on one aspect of the developmental corridor. The centre would apply for research grants to fund such studies, and would cooperate with other interested research institutes and research funding agencies, both locally and internationally, and with graduate students. Seeking master & Ph. D degrees.

Use of such a database would not be limited to centre or BUE members. Rather, it would be made available to the entire academic community in Egypt (under arrangements to be discussed).

Scientific studies of various aspects of the developmental corridor may include:

1. Transportation network studies
 - a. North-South Highway (exact path, specs, capacity, adjacent land uses, etc).
 - b. East-west branches (12 branch) characteristics of each branch.
 - c. Railway
2. Infrastructure
 - a. Water (surface & ground)
 - b. Electricity (renewable energy potentials)
3. Land uses
 - a. Urban communities
 - b. Agriculture
 - c. Industries
 - d. Services
 - e. Tourism
 - f. Education
 - g. Health care
 - h. Sports
 - i. Recreation
4. Sociological studies
 - a. Characteristics of the potential population
5. Economical aspects
 - a. Feasibility studies of various aspects of the project

6-Geo-surface under Ground temperature maps of Different Egyptian cities

Establishing Studies of measuring different temperature levels till 300 meter under the ground which will support in proposing Geothermal applications of cooling and air conditioning specially if it is used in Luxor city for applying ventilation and cooling

through underground cooling tunnels which are considered as Green cooling systems and would support linking and proving how the monuments and temples used such phenomena by our ancient civilization

Conferences: The centre may organize a conference focusing on the developmental corridor and similar projects worldwide.

Competitions: The centre would initiate competitions from time to time focusing on specific aspects of the project to elicit creative ideas and new visions.

Workshops: The centre would organize workshops for interested groups on aspects related to the project.

Lecture & Seminars: the centre would organize public lectures and seminars to explain various aspects of the developmental corridor.

Media: Dr. Ahmed Rashed already established links with media which can be utilized to spread the idea.

10. Centre Activities:

10.1 Participating in the Cairo International Exhibition of Innovations and Cairo Book Fair



10.2(ISCDC) Futuristic Recycled Interior Design:

This workshop is a collaboration work between Assoc. Prof. Dr. **Laila Khodeir** as the PI of the ISCDC Project, and Prof. **Ahmed Rashed** the head of the Center for Sustainability CSEC. The aim of the proposed training Workshop is to introduce the sustainability values to the children. The kids are supposed to design interior furniture units that is designed, created by children's themselves, and that will reflect both sustainability in general and the concept of Development Corridor for Sustainable Growth in Egypt in particular. Such project will integrate the sustainable values, namely recycling and reuse and could be developed to provide Modular furniture units that fit into three of the allocated sites on the development corridor on further steps.

Timing of the workshop: Wednesday 21/6/2017 & Thursday 22/6/2017

Venue: Library Building , Interactive Room, BUE

Target area:

The Sherouk City and surrounding communities .

Expected outcome : 3D Models expressing different innovative Concepts of Futuristic Furniture units in three allocations on the corridor of development.

Area of Interest: Architecture Sustainability& community

Level of Participants : kids from 6-14. Potential young architects.

Coordinator: **Dr. Laila Khodeir**

Co- members: TAs from architecture dept. BUE

The workshop will include two main parts:

PART 1 : Experiencing essentials of sustainability and corridor of development
(Introduction to Egyptian well known Scientist Farouk albaz and Great Architect Hassan Fathy).

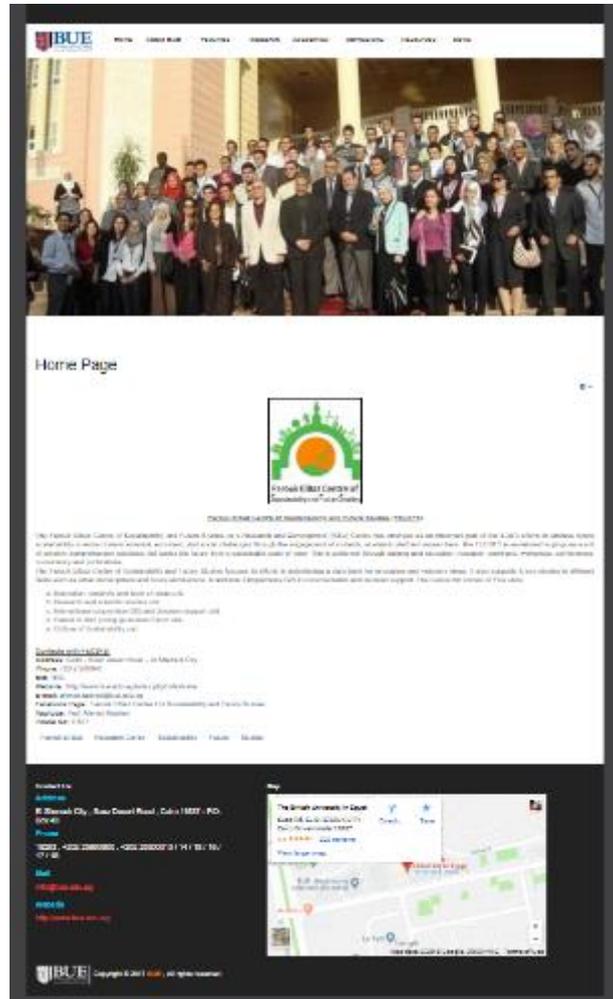
Part 2 : producing the 3d model for the furniture unit.

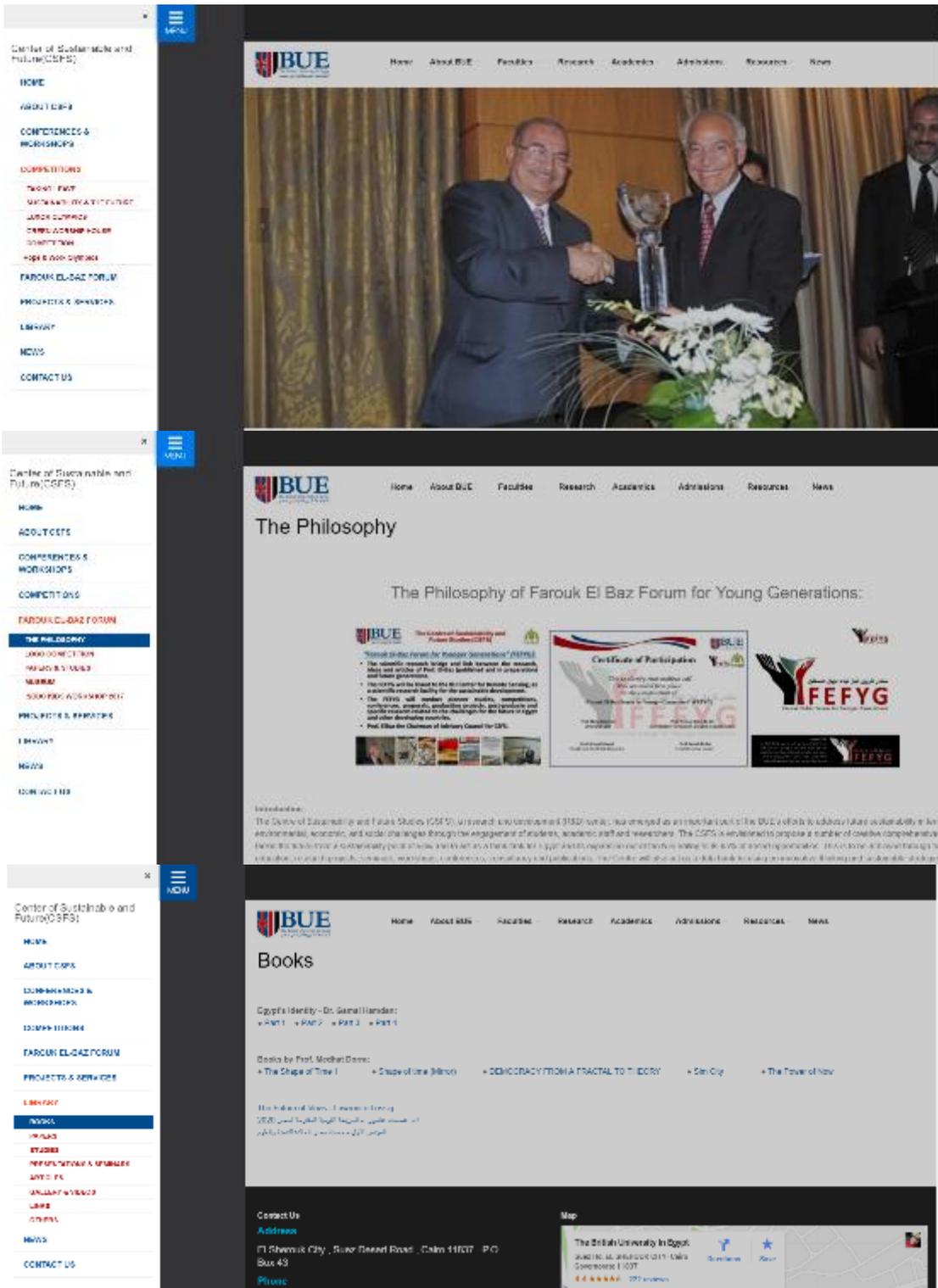


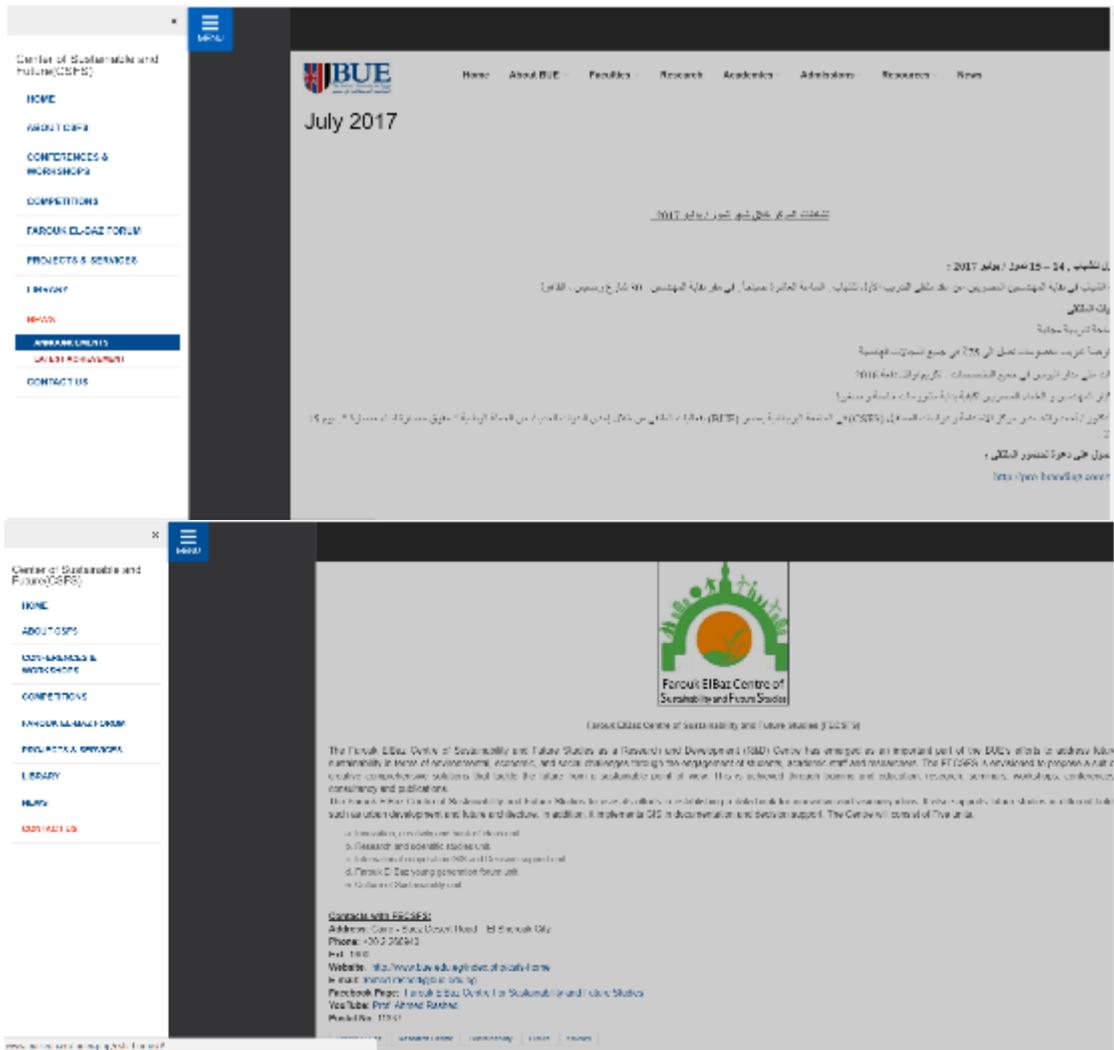
10.3 FECSFS Websites

1 – BUE Website

- <http://www.bue.edu.eg/index.php/csfs-home##>

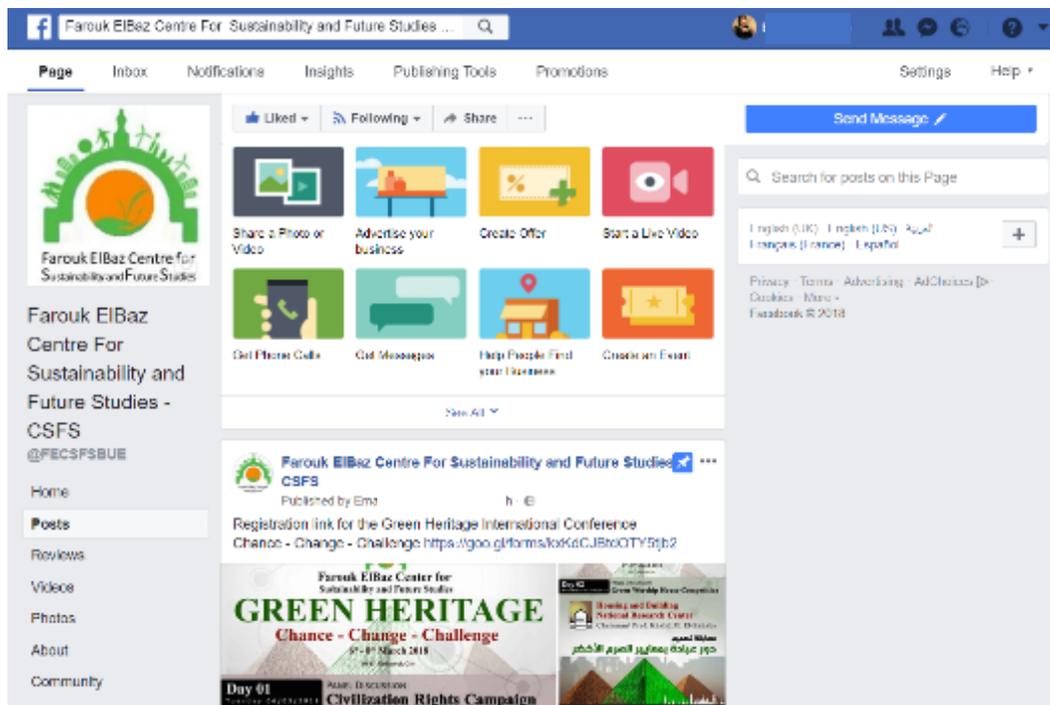






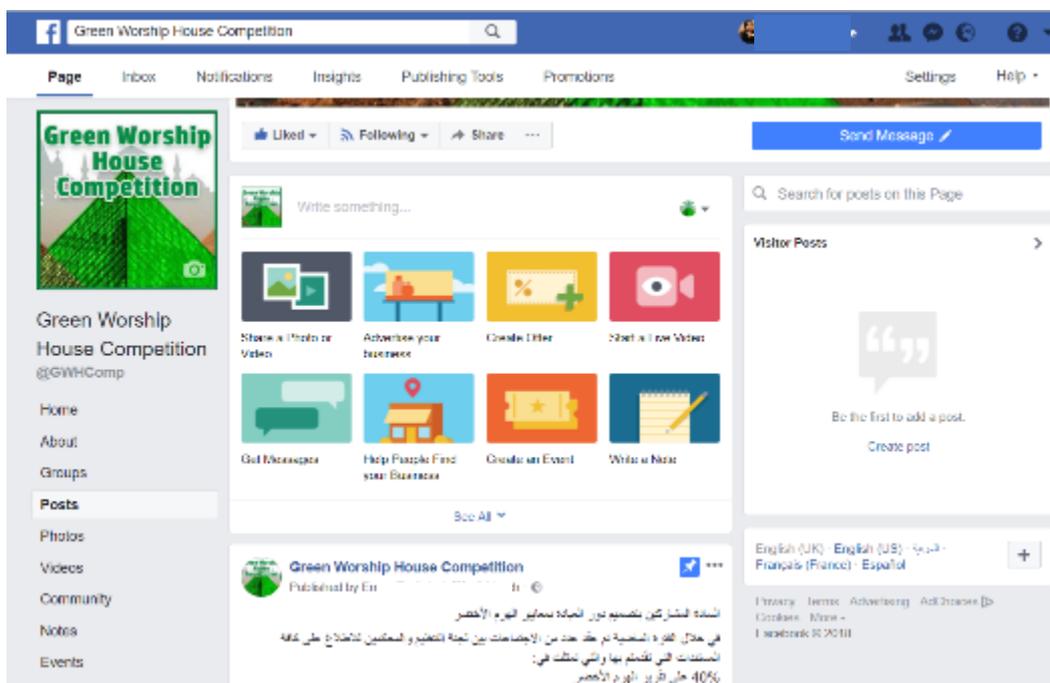
2- Facebook Official Page

- <https://www.facebook.com/FECFSBUE/>



The screenshot shows the Facebook profile of the Farouk ElBaz Centre For Sustainability and Future Studies (CSFS). The profile picture is a green tree logo with the text 'Farouk ElBaz Centre for Sustainability and Future Studies'. The cover photo is a banner for the 'GREEN HERITAGE' conference, with the text 'Chance - Change - Challenge' and '9-11 March 2018'. A post from the page is visible, titled 'Registration link for the Green Heritage International Conference' and includes a URL: 'https://goo.gl/forms/k0kaCUBro0TY5tp2'. The page also has a navigation menu on the left with options like Home, Posts, Reviews, Videos, Photos, About, and Community.

- <https://www.facebook.com/GWHComp/>



The screenshot shows the Facebook profile of the Green Worship House Competition (GWHComp). The profile picture is a green tree logo with the text 'Green Worship House Competition'. The cover photo is a banner for the 'Green Worship House Competition'. A post from the page is visible, titled 'السادة المشاركون بتصميم نور الجمالة بمعايير اليوم الأخضر' and includes text in Arabic: 'في خلال فترة المسابقة تم عقد عدد من الاجتماعات بين لجنة التعليم والمعلمين للتأهيل على كافة المستويات التي تقدمت بها والتي نتجت في: 40% من التبرير اليوم الأخضر'. The page also has a navigation menu on the left with options like Home, About, Groups, Posts, Photos, Videos, Community, Notes, and Events.

10.4 Participating in the Design of Hospitals and Green Health facilities:

Prof. Ahmed Yehia Rashed took part in the **committee for the preparation of the guide for the design of hospitals and green health facilities** with the **Housing & Building National Research Centre (HBRC)** on the 12th of April 2018.

10.5 Dr. Hesham Safwat Activities Related to the center :

- The acceptance of a research paper “proposed solar Absorption chiller for a building in a campus “ in ASHRAE international conference in Beirut
 - Promoted as International ASHRAE instructor at ASHRAE global training cent and made one training on design and application of the variable reflow systems in Dubai October 2017
 - Member in Steering committee for the international regional conference attended by 31country around world in ASHRAE Regional at large meeting for ASHRAE chapters CRC RAL Sharm. October 2017
 - Speaker for the new technology in Air condoning VRV system in March 2018 in Cairo chapter technical seminars in Cairo -Egypt?
 - Seminar “Why VRF in ASHRAE
 - Promoted and announced on the 5th of May 2018 as a president for ASHRAE Cairo chapter starting 30th of June 2018 ,the president would lead seven ASHRAE board of governors and coordinate all the technical events in air-conditioning field , would attend representing Egypt in the ASHRAE winter conference in USA , and also represent Egypt in ASHRAE region al at large meeting
 - A group design project (GDP) for year 4 mechanical manufacturing an energy saving water cooled air conditioning unit for economical as attached buildings in Egypt has been awarded the fourth position with appreciation certificate from Badr university completion on 20 universities’ all over Egypt
- An article was written in ASHRAE newsletter on Why VRF attached
 - Being speaker as attached in FRIGO AIR conference in South Africa on the 6 the June as attached on VRF system technology my name is written in the attached





تبدأ عمال المشروع

قد تم تشغيل آلة التصميم والتصنيع وحدة تكييف مجهزة بمدة التعريف 5000 وحدة تبريد حرارية على الساحة و هي من مبيعات مصرية بقيمة 900% مجهزة الكاشفر وإمكانة استهلاكها يتم بدراجات الألمان الإمتداد هي ذات الغرف سداسية (3م*4م) مع مراعاة الطول العام لوحدة التكييف بالإضافة لامتداد الكاشفر لتكهربه التي يقل عن التكييف التقليدي ب 50% و التكررات الخاصة لوحدة التكييف المصرية و هيأ 2 عدد 2 كاشف لآلة تصنيع في مصنع جيس و تشايرام و قد تم أيضاً إستخدام فريق سائق الكابلات و قد تم عمل إجراءات الفحص لوحدة التكييف بمسح الكاميرات من حيث إمتداد الكابلات حيث تكون إن إمتدادها جازم عن 12.8 كيلو وات في اليوم و إن السعة 0.52 كيلو واتر و كذلك فريق إن إعداد الصوت بمسح مقارنة بالمكثفات الأخرى حيث وصل نسبة الصوت إلى 50 ديسي بل و تم أيضاً إعداد غرفة حفر و سائل و خروج الهواء و إن درجة حرارة دخول الهواء 27 درجة و درجة حرارة الخروج 18 درجة. هذه الوحدة المجهزة يتم إرسالها بموجب الفاتورة و مستندات فني فريد حوزة اليوم و تكلفة سعر وحدة التكييف ب 4000 جنيه مصري و تكلفة الوحدة 1 طن بنظام 32,000 جنيه و سيتم إستعداد الدفاع في سائل و مستند مقارنة بالوحدات المتوفرة إن سعر إمتدادها لتكهربه إن

% 30

 مشروع تصميم ، تصنيع ، تركيب أول وحدة تكييف مجمعة مصرية الصنع و يتم تبريد المكثف بالماء للإسكان الإجتماعي المتوسط بسعة 1 طن



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10.6 Future Plans and Next steps for FECSFS:

10.6.1- In the next phase, the files of the previous conferences will be opened, also a kind of cooperation is going to be done with everyone who participated in the Green Worship House Competition (GWHC) because they became the first reference in Egypt for green buildings according to the Green Pyramid Rating System (GPRS).

10.6.1- The next Conference will be titled as **“Civilization Resilience”** that will be held 2020 which will discuss the related issues to the topic.

11.Finance

2017/2018 Approved Budget (enclose a copy)	Spending (1/8/2017 – 30/4/2018)	Balance
Human Resources	2 Research Assistance	70.000 LE
Equipment	1 Laptop (approved but not get yet) Furniture (not yet)	20.000 LE 40.000 LE
Technical Service		
Consumables		10.000 LE
Activities	International Conference	200.000 LE
International Visitors		45.000 LE
Travel (not common)		
Total		385.000 LE