The School of Athens by Raphael (see back cover)
Foreword

The BUE Research Bulletin is issued twice annually to inform the BUE community of research and intellectual accomplishments of staff. In this first issue, news about staff activities of international calibre, newly published books, received funding, and research performance parameters are shown. Information about research centres, events, and collaborations are also included. This wealth of research output is indicative of the quality of BUE staff and their international standing. I look forward to more productivity, as BUE continues to bring new policies and incentives to encourage and support research. I am confident that this vibrant research environment at BUE will steadily advance its international ranking.

— Professor Yehia Bahei-El-Din
University Vice President for Research & Postgraduate Studies

Research Related Policies & Incentives

- **Research awards** have been launched recently in recognition of excellence in research. Six awards are offered annually for academic staff, teaching assistants, graduate students and undergraduates.
- **Young Investigator Research Grants** are available annually on competitive basis for academic staff in support of their research ideas.
- **Conference allowance** is granted to academic staff participating in national and international scientific meetings.
- **Journal publication fees** are covered for all BUE staff and students who publish in peer reviewed journals.
- **Research time for academic staff** is granted in the form of summer leaves for international collaborative research, and around the year in the form of one day weekly.
- **Research time for teaching assistants** is granted in the form one day weekly to pursue a postgraduate degree in Egypt.
- **Postgraduate study abroad unpaid leave** is granted to teaching assistants to pursue a postgraduate degree.
News

News from the Faculty of Business Administration, Economics and Political Science:

- **Prof. John Adams**, Head of Economics, has been chosen as an Outstanding Reviewer for World Journal of Science, Technology and Sustainable Development in the Emerald Lati- rati Network 2015 Awards for Excellent.
- **Dr. Marwa Anis**, Business Administration, is the first to graduate under BUE–LU PhD pro- gramme.
- **Dr. Karim Hassanien**, Economics, has been appointed as Associate Editor of AshEse Jour- nal of Economics in the UK.
- **Dr. Karim Hassanien**, Economics, was an in- vited keynote speaker at the League of Arab States in its last November meeting on the Impor- tance of Competition and Its Role in the Economic Development.
- **Assistant Lecturer Aliaa Khalil**, Political Sciences, gave a conference talk in the event “Contending Religions, Identities and Space: Living together in contemporary Africa and Europe”, Italy, Nov 2015.
- **Prof. David Kirby**, BUE Vice President for Community Service & Enterprise, has been in- vited to join the editorial board of the Eurasian Journal of Leadership.
- **Dr. Reham Rizk**, Economics, has been invited and received travel grant to participate in the United Nations University (UNU) 30th anni- versary conference, Finland, September 2015.
- **Prof. Rania Shamah**, Business Administra- tion, has been selected as a member of the Editorial Advisory Board of International Journal of Management Science and Business Admin- istration.
- **Prof. Rania Shamah**, Business Administra- tion, has been selected as a speaker and member of the Scientific Committee for the International Conference on Economics Man- agement and Engineering Sciences, January 2016, Brussels, Belgium.
- **Prof. Rania Shamah**, Business Administra- tion, has been invited to join the Editorial Board of the International Journal of Management Science & Business Administration Business Department, Research Leap Inovatus Services Ltd.

News from the Faculty of Dentistry:

- **Assistant Lecturer Ahmed Zaghloul** received the prestigious 2015 Heraeus Kulzer Travel Award from the International Association of Dental Research (IADR) for his Master's de- gree research.

News from the Faculty of Engineering:

- **Dr. Sara Abdelsalam**, Basic Sciences, was awarded a travel grant from the Binational Fulbright Commission in Egypt to attend the Fulbright Egyptian Scholar Program event (September 2015).
- **Prof. Yehia Bahei-El-Din**, BUE Vice Presi- dent for Research & Postgraduate Studies, has been invited to serve on the Editorial Board of Mechanics of Advanced Materials and Mod- ern Processes, published by Springer.
- **Prof. Yehia Bahei-El-Din**, BUE Vice Presi- dent for Research & Postgraduate Studies, launched last August the fabrication of the first 25-m wind turbine blade made in Egypt, joint- ly with Dr. Wagdy Elias, VP of Misr Environ- mental Technologies (MET). BUE and MET are partners in the design and fabrication of the blade with financial support from Science
and Technology Development Fund.

- **Dr. Hany Bastawrous**, Electrical Engineering, is collaborating with the University of Wollongong (Australia) & attended IEEE events in Japan (Oct 2014 & Oct 2015), Spain (June 2015) & Austria (Nov 2014).

- **Prof. Amer El-Korashy**, Basic Sciences, was invited to serve as Guest Editor for a special issue of American Journal of Condensed Matter Physics on Non-Crystalline Materials, Scientific & Academic Publishing, Quincy, Massachusetts, USA.

- **Dr. Mamdouh Gadalla**, Chemical Engineering, will deliver a talk and chair a session in the 3rd World Congress on Petrochemistry and Chemical Engineering (USA, Nov 2015).

- **Dr. Mamdouh Gadalla**, Chemical Engineering, is collaborating with Prof. Mahmoud Elhalwagi from the University of Texas (USA) and participated in the LSBU research seminar (Aug 2015, UK).

- A patent by **Dr. Amal Kasey**, Basic Sciences, and co-workers on Carbon Nano-tube-Graphene Hybrid Transparent Conductor and Field Effect Transistor, which was filed in 2011 and published in 2013 by the US Patent Office, has been allowed.

- **Dr. Adham Naji**, Electrical Engineering, has formed and is leading a new research group for ‘Applied Electromagnetic Theory’ under the Centre for Theoretical Physics (CTP) and in strong collaboration with the Faculty of Engineering.

- **Dr. Adham Naji** is collaborating with the University of Bristol, UK, where he spent two months during the summer of 2015 as a Visiting Research Fellow.

- **Dr. Samar Sheweka**, Architectural Engineering, spent three months in the summer of 2015 at Lincoln University, UK as a Visiting Scholar under funding from the British Council.

- **Prof. Moustafa Soliman**, Chemical Engineering, served as an Outstanding Reviewer in the Journal of King Saud University (Elsevier) and Catalysis for Sustainable Energy (De Gruyter). He is also a consultant for the King Saud University (Saudi Arabia).

- **Prof. Moustafa Soliman**, Chemical Engineering, gave a talk in the 7th International Conference on “Mathematical Analysis, Differential Equations and their Applications” that was held in Azerbaijan (September 2015).

**News from the English Department:**

- **Dr. Rania Khalil** participated in the workshop entitled “Assessment Strategies for the Flipped Classroom Seminar” USA, June 2015.

**News from the Faculty of Informatics and Computer Science:**

- **Prof. M. Abou El-Seoud** is a member of the Editorial Advisory Board of Journal of Emerging Technologies in Web Intelligence (Academy Publisher), Computational Intelligence Laboratory (Academy Publisher), International Journal of Computer Science & Engineering Applications & International Journal of Computing and Information Sciences.
News from the Faculty of Pharmacy:

- **Dr. Mona Arafa**, Pharmaceutics, gave a talk in the “International conference on Pharmaceutical sciences” that was held in FUE (April 2013). The talk was ranked among the top evaluated presentations.

- **Prof. Mohey El-Mazar**, Dean of Pharmacy, received a travel grant from COMSTECH to deliver a talk in the Science and Technology summit (Pakistan, Dec 2014).

- **Prof. Mohey El-Mazar**, Dean of Pharmacy, participated in the 13th International Conference on “Current Issues in Pharma and Medicine” (USA, Aug 2015).

- **Prof. Mohey El-Mazar**, Dean of Pharmacy, chaired the 53rd and the 54th conferences of the Egyptian Society of Pharmacology and Experimental Therapeutics (ESPET) that were held at BUE in April 2013 and Dec 2014.

- **Prof. Mohey El-Mazar**, Dean of Pharmacy, has been selected to be a member of the Editorial Advisory Board for the Egyptian Journal of Basic and Clinical Pharmacology (Elsevier).

- **Prof. Shaker Mousa** (Albany College of Pharmacy, USA), Chapman University School of Pharmacy (USA) and Prof. Magdy Yacoub (Magdi Yacoub Heart Foundation, UK) through the CDRD research centre in Pharmacy, which he established two years ago.

- **Dr. Abdulllah Gibriel**, Biochemistry, has been selected as a member in the Associate Editorial Board for the American Journal of Current Genetics (Ivy Union Publishing).

- **Dr. Abdulllah Gibriel**, Biochemistry, received An Appreciation Award from the Egyptian Society of Pharmacology & Experimental Therapeutics in December 2014.

- **Prof. Abdel-Gawad Hashem**, Vice Dean of Pharmacy, has been selected as a member in the Editorial Advisory Board of the Archives of Clinical Microbiology (Insight Medical Publisher).

- **Dr. Samy Mohamady**, Pharmaceutical Chemistry, has been awarded the W.B. Pearson Gold Medal for best PhD from the University of Waterloo in Canada (June 2014).

- **Prof. Mohamed Abdel-Gawad Hashem**, Vice Dean of Pharmacy, has been selected as a member in the Editorial Advisory Board of the Archives of Clinical Microbiology (Insight Medical Publisher).

- **Dr. Shereen Mowaka**, Analytical Chemistry, received the Bruker Prize from Bruker company (October 2015).

- **Dr. Mahmoud Salama**, Pharmaceutical Chemistry, travelled to Canada (Summer 2015) to perform research activity and to establish international collaboration with Prof. Scott Taylor from the University of Waterloo.

- **Dr. Mahmoud Salama**, Pharmaceutical Chemistry, is establishing international collaboration with Prof. Fathi Halaweish from the South Dakota State University (USA).

- **Dr. Noha Swilam**, Phytochemistry, received a travel grant from the Alexander von Humboldt Foundation (Germany) and gave a speech in a workshop entitled “Bioactive Phenolics from Egyptian Folk Medicinal Plants” (June 2015).

- **Dr. Hebatallah Wagdy**, Analytical Chemistry, has joined the Pharmaceutical Analysis research group headed by Prof. Hassan Aboul-Enein in the National Research Centre in Egypt.

- **Dr. Hebatallah Wagdy**, Analytical Chemistry, is building international research collaboration with Molnar Institute and Ulm University in Germany (2015).
Research Performance

Publications (up to 11 November 2015):

- Total number of publications appeared in Scopus: 706
- Total Number of citations: 4,949
- Cited publications: 56.8%
- Citations per Publication: 7.1 (the highest in Egypt)
- Field-Weighted Citation Impact: 1.27 (citations are higher than world average by 27%)
- Publications in top 10% most cited worldwide: 20%
- Publications in top 5% most cited worldwide: 12.4
- Publications in top 10% journals according to SNIP(1): 18.9%
- Publications in top 5% journals according to SNIP(1): 8.8%
- Publications by a single author: 17.5%
- Publications co-authored with Institutions in Egypt: 25%
- Publications co-authored with Institutions in other countries: 51.1%

(1) SNIP: Source-Normalised Impact per Paper

H-index (top ranked full-time academic staff):

- Dr. Sherif Elgammal, Centre for Theoretical Physics (43)
- Prof. Mohey El-Mazar, Dean of Pharmacy (18)
- Prof. Yehia Bahei-El-Din, Vice President for Research & Postgraduate Studies (16)
- Prof. Nabil El-Tayeb, Mechanical Engineering (15)
- Prof. Mostafa Ali Soliman, Chemical Engineering (12)
- Dr. Mamdouh Gadalla, Chemical Engineering (12)
- Prof. Amer El-Korashy, Basic Science, Physics (11)
- Prof. Gamal Nashed, Centre for Theoretical Physics (11)
- Dr. Amr El-Zant, Centre for Theoretical Physics (10)
- Prof. David Kirby, Vice President for Community Service & Enterprise (10)

Recent Book Contributions

Book contributions from the Faculty of Business Administration, Economics and Political Science:


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**Book contributions from the Faculty of Engineering:**


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**Book contributions from the English Department:**


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**Book contributions from the Faculty of Informatics and Computer Science:**


2. **Al-Jaam, Jihad; El-Seoud, Samir A.; Dandashi, Amal; Karker, AbdelGhani, A Cognitive**
and Augmentative Communication System for Special Needs Education. A chapter that has been submitted for publication in the textbook: Challenges Surrounding the Education of Children with Chronic Diseases. Editor: Maria Gordon, University of Ottawa, Canada. For release in Advances in Early Childhood and K-12 Education (AECKE) Book Series. Series Editor: Jared Keengwe, University of North Dakota, USA. ISSN: 2329-5929, Publisher: Information Science Reference, Expected publication October 2015.


### Book contributions from the Faculty of Pharmacy:


### Funding

**Overall summary:**
- 26 projects awarded since 2005
- BUE lead in 23 projects
- Total fund of 18.4 Million EGP
- 12 BUE-led projects are sponsored by 5 Egyptian funding agencies at 7.3 Million EGP
- 11 BUE-led projects are sponsored by 6 international funding agencies at 11.1 Million EGP

**Active and Recently Awarded Grants:**

#### Academy of Scientific Research and Technology
- **Prof. Amr AbdelKader** (Mechanical Engineering), EGP 700,000, “Design and local manufacturing of a solar powered energy efficient high pressure pumping unit with Seawater Reverse Osmosis (SWRO) desalination module”.
- **Dr. Sherif Elgammal** (Centre for Theoretical Physics), USD 20,000, “Search for Heavy Gauge Bosons and Dark Matter at CMS experiment in pp collision at LHC”.

#### European Union, EU-Egypt Innovation Fund (RDI)
- **Prof. Yehia Bahei-El-Din, Prof. Amr AbdelKader, Dr. Mostafa Shazly, and Dr. Tarek Hatem** (Centre for Advanced Materials), RDI-2, Scheme I, EUR 353,000, “Development of High-Efficiency Vertical Axis Wind Turbine for Off-Grid Applications”, in collaboration with Arab British Dynamics, the Arab Orgnisation for Industrialisation.
• Dr. Adham Naji (Electrical Engineering), EGP 230,000, “Optimised Implementation of Turning Mechanisms in Reconfigurable RF Resonators for Advanced Wireless Systems”, in addition to USD 10,000 per each patent filing.

• Prof. Gamal Nashed (Centre for Theoretical Physics), EGP 220,000, “Unravelling the nature of dark energy and the gravitational ac-

• Prof. Khaled Dewidar and Dr. Gehan Nagy (Architectural Engineering), Institutional Links Grant, EGP 826,285, “Heritage Building Information Modeling and Smart Heritage Building Performance Measurement for Intu-

• Prof. Hani Ghali (Electrical Engineering), Researcher Links Workshop Grant, GPB 38,000, “Photovoltaics (PV); Strategic Alternative Energy Source for Egypt; From Cell to Grid Connected PV Arrays” in collaboration with London South Bank University, UK.

• Dr. Pauline Ghenghesh (University Staff Development Coordinator), Researcher Connect Training, EGP 10,000.

• Dr. Ann Nosseir (Informatics & Computer Science), Researcher Links Travel Grant, EGP 66,213, “Towards eliminating interaction bar-

• Dr. Sherif AbdelSalam (Civil Engineering), EGP 100,000, “Development of Geofoam to Improve Infrastructure Efficiency”.

• Prof. Sayed Akl (Mechanical Engineering), Faculty for Factory Grant, EGP 12,000, “Design, Modelling and Manufacturing of Im-

• Prof. Yehia Bahei-El-Din (Centre for Adv-

• Prof. Amer El-Korashy (Basic Science), EGP 1,000,000, “Optical Bandpass Glass Filter and its Applications in Solar Cells”.

• Dr. Amr ElZant (Centre for Theoretical Phys-

• Dr. Mostafa Shazly (Mechanical Engineer-

• Dr. Mostafa Shazly (Mechanical Engineer-

• Dr. Samar Sheweka (Architectural Engineering), Researcher Links Travel Grant, EGP 73,390, “Energy-efficient building envelope for low-income housing” in collaboration with Lincoln University, UK.
Research Centres

1. Centre for Theoretical Physics (CTP), since 2006.
2. Centre for Advanced Materials (CAM), since 2008.
4. Centre for Sustainability and Future Studies (CSFS), since 2012.
5. Centre for Drug Research and Development (CDRD), since 2013.
7. Centre for Advanced Informatics and Business Intelligence (CAIBI), since 2015.
9. Centre for Innovation, Governance and Green Economy (CIGGE), since 2015.
10. Centre for Simulation Innovation and Advanced Manufacturing (SIAM), since 2015

University Research Events

Recently held research events:

- **BUE 1st Research Forum** (10 March 2015, BUE): Attended by Prof. Sherif Hammad, Minister of Scientific Research, and Prof. Amr Adly, Executive Director of the Science and Technology Development Fund.


- **China Day** (19 April 2015, BUE): Sponsored by BUE. Attended by Dr. Mohamed Shaker Elmarkaby, Minister of Electricity and Energy, and representatives from Tsinghua University, TU Science Park, and THSolar Co in Beijing, and the Chinese Embassy’s representatives.

Upcoming research events:

- **Dark Matter Workshop** (14-17 December 2015, Mena House Hotel, Giza): Organised by the Centre for Theoretical Physics
- **Sustainable Mega Projects** (3-4 May 2016, BUE): Organised by the Centre for Sustainability and Future Studies
- **Sustainable Vital Technologies in Engineering and Informatics** (November 2016): First BUE International Conference

Collaborations in Effect

**National:**
- National Authority for Remote Sensing & Space Science

**International:**
- Middle East Institute, Washington, DC, USA
- University of Nevada Las Vegas, USA
The British University in Egypt’s

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About the front cover:
The masterpiece painting ‘The School of Athens’ by the renaissance artist Raphael, painted between 1509 and 1511, showing famous scholars and philosophers debating and learning, including Aristotle, Plato, Socrates, and Averroes (Ibn-Rushd).

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