

Deanship of Scientific Research

Discover. Transfer. Impact

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DEC, 2017



Highlights



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(6)



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Welcome to UBT Research E-Newsletter

Welcome to the 2017 edition of the UBT Research Electronic News-letter. In the 2nd volume 3rd issue, The Deanship of Scientific Research is delighted to represent all research activities at UBT, highlighting the research work of UBT faculty members and students, their publications, their inventions, and their awards. Researcher of the month, seminars, workshops, visits, announcements for coming events will be also available in the E-Newsletter.

Enjoy reading, and wishing you more publications, inventions, conferences, awards, citations, etc.

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DATES TO REMEMBER

◆ DEADLINE FOR SUBMISSION

- ◆ Register for Seed Fund program by 1st of February.
- ◆ Proposal for KACST-Grants Programs by 1st of February.
- ◆ Poster submission for 3rd research symposium by 29th of February.
- ◆ Second call for research Proposal by 1st of March.
- ◆ submission for Dr. Abdullah Dahlan Research Award by 1st of April.

◆ EVENTS:

Research open day on the 15th of February.

ABOUT US



The team of the Deanship of Scientific Research. From left: Mrs. Layla Kamal, Dr. Basma El Zein, Mrs. Hadeel Allehbee, Ms. Rozan Jalal, Mr. Fahd Abduljawad, Mr. Mohammed Angawi, and Mr. Mazin Daghistani.

OUR VISION:

To be leaders in research excellence, creativity, and innovation that serve the community and solve current life problems.

OUR MISSION:

To support faculty, staff, and students to perform creative and innovative scientific research to develop the business & technology in KSA, commercialize, transfer technology ; to serve the national and international economic development needs in different business sectors.

KINGDOM OF SAUDI ARABIA
NATIONAL DAY FROM
RESEARCH PERSPECTIVE

بالإكتشاف و نقل المعرفة و نقل التقنية
نساهم في بناء وطن



WELCOME PROF. OSAMA JANNADI

Deanship of Scientific Research (DSR) is proud to welcome Prof. Osama Jannadi as the new Rector of the University of Business and Technology (UBT). Prof. Jannadi graduated from King Fahd University of Petroleum & Minerals with a B.Sc. degree in Civil Engineering with honors. He continued his post-graduate studies and got a Master degree in Engineering Management, and a Ph.D. in Construction Engineering and Management from the George Washington University. By the year 2000, he was ranked as a Professor.

Prof. Jannadi has a vast experience in academia, research, and the construction industry. He held many administrative and academic positions at Taibah University and King Fahd University of Petroleum and Minerals. He has been a visiting scholar at University of Westminster, London, University of Brighton, Brighton, George Washington University, Washington DC, and other high-ranking universities across the United Kingdom and the United States. He has more than 40 published journal articles, research, and conference proceedings. In addition, he is a member of the technical committee for the Holy Mosque expansion project in Madi-

nah. He has also been a consultant for a number of Aramco projects in many locations across Saudi Arabia.

Prof. Jannadi's research work included areas of interests in Value Engineering, Construction Safety Management, Quantitative Methods in Project Management, Quality Management, and projects Planning and Scheduling.

Prof. Osama: UBT is Teaching and Research Institution In Line With Vision 2030

Having one of the highest rates of graduate employability, UBT stands a leader, with 78% of its graduates employed within six months of their graduation.

The Jeddah-based private university caters to male and female students in undergraduate and graduate programs, and has an alumnus of over 4,300 graduating from the College of Business Administration, College of Engineering, and College of Advertising, and awaiting new graduates from the newly introduced College of Law.

UBT transitioned from a Teaching-based institution to a Teaching and Research-based one, in line with the Ministry of Economy and Planning's 8th devel-



opment plan promoting scientific innovation and developing universities and research and development centers. Research was also highlighted in the Transformational Plan 2020, the transformation into a knowledge-based economy where growth depends on knowledge and is considered a key factor for development, and creating job opportunities and economic change. UBT encourages the educational and research process, ensuring the students' ideas make an actual impact. As a result, graduates of the university possess skills in creative thinking, problem-solving, innovation, design, and research. UBT is also bringing together faculty members and students from all 4 colleges and departments to develop interdisciplinary approaches to goal-oriented problems, generate industrial potential to support the economic development of the Kingdom, and partner with industry players to solve their problems, develop new solutions, and train their employees. In line with this, UBT established seven research flagships focusing on the water treatment; energy; electronics; communication and IT; transportation and automotive; construc-

tion; and health (collectively known as WEATECH). Each of the seven flagships will be tackled from the perspectives of business, law, advertising, science, and engineering representing the colleges of UBT. The university's findings will be disseminated to both the industry and the market through high-impact publications and journals, national and international collaborations, technology transfers, new businesses and startups, and through their contribution in forming future leaders and entrepreneurs who will have a positive impact on the Saudi economy and society. This article was featured on Destination Jeddah, December 2017.

Prof. Jannadi is an honorable addition to the administrative team of UBT, and his expertise will help enhance the quality of education, and raise the university's ranking. DSR is proud to continue to serve the University of Business and Technology, its students, faculty, and staff under the new leadership. Once again, the deanship welcomes Prof. Osma Jannadi and wishes him a successful career and more achievements.



UNIVERSITY OF BUSINESS AND TECHNOLOGY IS AWARDED THE BIZZ

University of Business and Technology, taking the name of Saudi Arabia to the highest level, was awarded by the World Confederation of Businesses (WORLDCOB) with one of the world's most important business awards: "THE BIZZ" for its distinguished business excellence. Dr. Abdulla Dahlan received the trophy on November 15 in a gala ceremony at Burj Al Arab Hotel, Dubai.

In addition, Dr. Abdullah Dahlan was awarded the World Leader Business Award, for being a successful leader who works in an innovative, knowledgeable, and systematic manner.

In previous editions, The BIZZ Awards was held in cities such as Houston, New York, Punta Cana, Panama, Cusco, Rome, Mumbai, Orlando, Barcelona, Miami/Bahamas, Doha, Paris, Los Cabos, Dubai, Venice, Hawaii, Abu Dhabi, Athens, Las Vegas, Muscat, Washington and Monaco.

WORLDCOB is a leading business organization located in Houston, Texas that promotes the development and growth of more than 3,300 companies in over 120 countries and recognizes and boosts the growth of the outstanding companies and business people as well as promoting the corporate

social responsibility. And it makes it through The BIZZ, an award that recognizes the business excellence.

With this triumph, University of Business and Technology becomes a member of WORLDCOB alongside large corporations as:

SOHAR BANK (Oman), DUBAI DUTY FREE (UAE), DOHA BANK (Qatar), SAUDI TELECOM COMPANY (Saudi Arabia), BBK BSC (Bahrain), NATIONAL BANK OF KUWAIT (Kuwait), EMIRATES IDENTITY AUTHORITY (UAE), ETHIOPIAN AIRLINES (Ethiopia), KARABUK UNIVERSITY (Turkey), CREDIT LIBANAIS (Lebanon), AL SULAIMI GROUP (Oman), UNION NATIONAL BANK (UAE),

The obtained recognition will allow you growing at the business level because it increases your capacity for business relationship generate more businesses and revitalize your corporate image.

University of Business and Technology has been considered as an elite member of WORLDCOB which will allow you generate businesses among the members of WORLDCOB and promote the socially responsible corporate culture.



**THOMSON
REUTERS**



THOMSON REUTERS VISIT UBT

A delegation from the renowned Thomson Reuters presented by the research consultancy service manager of the Department of Intellectual property, Dr. Walid Hassan and his team Mr. Ahmad Ibrahim and Mr. Amine Triki, have visited UBT Dhahban campus on the 3rd of October 2017 to discuss a Strategic Partnership with regard to improving the scientific research environment at UBT.

Thomson Reuters is an international company that is committed to providing tools that empower decision makers with the information they need. Their range of services includes management solutions, intellectual property consultation, legal, news, scholarly and scientific research, and accounting services.

The delegation met with acting Rector Dr. Mahmoud Baissa and Dr. Basma El Zein, dean of Scientific Research at UBT. The meeting started with a presentation about the Deanship of Scientific Research services and activities, highlighting

the importance of protecting intellectual property and innovation and bridging research to real-world problems. On the other hand, The Thomson Reuters delegation presented their service offer to UBT, ranging from scientific database service to providing specialized workshops. Further discussions will proceed on an action plan to activate the strategic partnership in the near future.





COLLABORATION WITH AASBC

UBT, represented by the Deanship of Scientific Research is the exclusive partner to The Association of Accredited Small Business Consultants® (AASBC) in Saudi Arabia and the Gulf region. The Association of Accredited Small Business Consultants is the only global association on training and certification of small business and SME consultants with proprietary educational materials and practice aides explicitly designed to develop proficiency in the specialized area of small business and SME consulting. Accredited Small Business Consultants and Accredited SME Consultants have the knowledge and credibility to assist clients in improving operational efficiency leading to increased profitability and business value. A number of Accredited SME Consultant (ASMEC) workshops and other sessions will be scheduled across Saudi Arabia.

The MOU was signed with Prof. Richard Weinberger, Chief Executive Officer of The Association

of Accredited Small Business Consultants. Dr. Weinberger has over 30 years experience as a financial and management consultant dealing exclusively with small businesses and SMEs providing a diversity of services to a wide range of clients in all industries. He is an international speaker and has taught numerous continuing education courses for entrepreneurs and professionals, and he will be giving the Accredited SME Consultant (ASMEC) workshops personally.

This partnership serves UBT in its role of supporting entrepreneurs through DSR. It paves the way for operating the Business and Entrepreneurship Hospitals (BEH), the first of its kind in the Kingdom and the Gulf region, with 11 clinics to diagnose entrepreneurs' problems and solve them. In addition, it boosts the business incubators and the seed funds, all in line of fulfilling the Saudi Vision 2030.



COOPERATION BETWEEN UBT AND UNIVERSITY OF JEDDAH

On Monday, 11 December UBT and the University of Jeddah signed a memorandum of cooperation. This agreement will result in mutual benefits for both universities from both academic and training perspective.

Prof. Osama Junnadi, rector of UBT, Dr. Basma El Zein dean of Scientific Research, and chancellors were delighted to host a delegation from University of Jeddah represented by Prof. Obaid Almodaf, vice chancellor of Studies and Scientific Research, Prof. Attieh Al-Ghamdi director of the Center for Scientific and Medical Research and dean of the College of Science, Dr. Saleh M Alshomrani the dean of Computing and Information Technology College, Dr. Abdullah Bin Mahfouz the dean of Engineering College, and Dr. Bader Alyoubi the dean of the Business Administration College.

The guests were given a tour of UBT Dahban and its faculties, afterward; Prof. Osama directed the meeting by elaborating on future visions, and ways of development. The guests shared the ideas of deans of UBT and welcomed a collaboration that would support research and scientific studies in line with the Transformational Plan 2020, and Vision 2030.

UBT and University of Jeddah have agreed to coop-

erate for five years in all executive activates especially:

- Cooperate to develop or offer academic programs, and provide training opportunities for students.
- Coordinate their efforts to develop professional standards and training portfolios to meet the need of the labor market.
- Joint actions to face obstacles to the growth of business and technology sector and entrepreneurship, by providing technical, environmental, and financial support to researchers.
- Make use of the available resources in research and scientific studies in the fields of business, technology, and entrepreneurship.
- Utilize of experiences in the execution of developmental, academic, scientific, projects and investments.
- Participate in conferences, seminars, and workshops.
- Make use of the available resources to improve the quality of education and community service.



UBT SINGS MOU WITH ELEVA8OR

Eleva8or is an introducer engine that helps startups and investors come together efficiently, it helps drive capital to startups in emerging markets from global investors. For startups, eleva8or helps them to prepare for due-diligence to attract capital from savvy investors around the globe. For investors, eleva8or help to provide exposure to new and emerging startups that fit their investment profiles. eleva8or served more than 170 startups, more than 45 Startup Countries of Origin, and has more than 200 investors listed.

The University of Business and Technology (UBT) have invited eleva8or on 19 December 2017 to sign a memorandum of cooperation, in recognition of

their willingness to promote for distinguished co-operation in the field of higher education and corporate education within an institutionalized framework.

The scope of cooperation under this will include:

- Joint education and scientific research and projects.
- Internship and Co-op programs.
- Student field studies and visits.
- Assistance with corporate and government consulting.
- Incubation and acceleration of technology startups.
- Knowledge expertise through co-organized events, seminars, and workshops.



CBA RESEARCH PUBLICATION ABSTRACT

THE CROSS-CULTURAL EXPERIENCES OF SAUDI SOJOURNERS IN THE UNITED STATES: A STUDY OF INTRAPERSONAL IDENTITY CONFLICT

Ahmed M. Asfahani

* Journal of Interdisciplinary Conflict Science, 2017, 3,(1)

ABSTRACT

What are the cross-cultural experiences of Saudi sojourners studying in the United States that lead to intrapersonal identity conflict? Sojourner identity conflict is a foundational issue in culture shock and can promote or limit positive relationships between Saudi and American students. It is important to study Saudi sojourners' cultural backgrounds and the factors that inhibit or promote assimilation into their host culture to ensure the success of cultural exchange through providing data needed to learn how to best ameliorate the dissonance caused by identity conflict. By employing a phenomenological approach, this research provides findings relating to acculturation strategies of sojourners to analyze these processes and their impact on intrapersonal identity conflict. Key themes are discussed in the areas of: perceptions of the United States, study experiences, living experiences, successful versus unsuccessful coping strategies, extent of social support networks, perceptions of the United States and its people, and perceptions of those of the opposing sex.

Keywords: Identity conflict, Sojourners, Saudi students, Cross-Cultural Experiences

CBA RESEARCH PUBLICATION ABSTRACT

SOJOURNER CULTURE SHOCK: ASSESSING THE ROLE OF EXPOSURE IN INTRAPERSONAL IDENTITY CONFLICT

Ahmed M. Asfahani

* International Journal of Psychological Studies, 2017, 9, (3)

ABSTRACT

This research assesses the relationship between intercultural exposure variables—the length of time spent in the United States, the length of previous experience outside Saudi Arabia, the length of time studying English as a second language, and the frequency and nature of interactions with Americans—and intrapersonal identity conflict. To assess this relationship, the researcher conducted a survey of Saudi Arabian students studying in the United States, which collected information on exposure variables, as well as employing Leong and Ward's (2000) Ethno-Cultural Identity Conflict Scale (EICS). A Pearson correlation test was conducted to examine the relationship between the Saudi sojourners' intercultural exposure and their identity conflict scores to conclude that there is not a relationship between exposure and identity conflict.

Keywords: intrapersonal identity conflict, Saudi Arabian students, study abroad, acculturation

CBA RESEARCH PUBLICATION ABSTRACT

THE IMPACT OF EMPLOYEE BRANDING ON WORKPLACE CONFLICT

Ahmed M. Asfahani

* International Review of Social Sciences, 2017, 5, (10)

ABSTRACT

This paper focuses on the practice of employee branding within private sector, that is, the ability private companies and organizations enjoy in order to recruit those employees who are better suited to the environment and psychology of the company. Employee branding will be analyzed specifically in the context of work conflict situations. It aims not just at the quality of the employee, but also at the qualities a good employer should possess. The paper also discusses how, through this branding process, employees come to know where they best fit within the company, enabling them to pursue the position that best suits their abilities. These forms of employee branding are analyzed in relation to varying influential factors from both inside and outside companies, such as economical and functional benefits, chances of advancing from within the hierarchical structure, and the environment and atmosphere within a given company. Motivation of employees by their employers is also discussed. The paper will also present the different dimensions of brand equity, that is, the ability for a company to enhance its marketability, such as brand loyalty, brand awareness, brand association, and perceived quality of products; the employer's attractiveness, given their economic incentives and other factors; the employers' attributes, such as empowerment, training and development, corporate culture, career prospect, compensation, and brand name; and finally, other factors that attract a potential employee to a specific company. The method followed is the result of data collected during the past two decades.

Keywords: Employee Branding, Motivation, Career Prospects, Position Advancement, Company's Atmosphere.

CBA RESEARCH PUBLICATION ABSTRACT

IMPACT OF CONFLICT MANAGEMENT STYLE ON ETHICAL DECISIONMAKING PROCESS: CASE STUDY OF SAUDI ARABIA

Ahmed M. Asfahani

* International Review of Management and Business Research, 2017, 6, (3)

ABSTRACT

Managers in organizations experience many conflicting scenarios that negatively impact the process of decision-making. Assisting these managers to manage conflict with efficacy is crucial to enhance the decision-making process from an ethical perception. So, this aimed to examine the impact of conflict management style on ethical decision-making process using Saudi Arabia as a case study. the study was carried out in Saudi Arabia using a convenient sample of 236 participants. A questionnaire was distributed to the participants. After analyzing the feedbacks in SPSS in the areas of ANOVA, regression and Correlation the results showed that oblige was the main style of conflict used in Saudi Arabia. There was a positive correlation between ethnic identity and the conflict management style under the umbrella of ethical decision-making. The findings are crucial to the contribution of social change as it equips the leaders with information on how to manage conflict and improve decision-making.

Keywords: Conflict Management Styles, Ethical Decision-Making

CBA RESEARCH PUBLICATION ABSTRACT

THE IMPACT OF INFORMATION TECHNOLOGY ON HUMAN RESOURCE MANAGEMENT IN SAUDI ARABIA

Ahmed M. Asfahani

* Asian Research Journal of Business Management ,2017, 5, (1)

ABSTRACT

Notwithstanding to specify that, leaders presently have fully understood the power of information technology (IT) tools for achieving business targets. The utilization of IT tools not only help in fulfilling the defined company goals but also advance the work forms. No one can deny the noteworthy impact and the significant role that information technology plays in all sciences and fields recently, Information technology has caused today no boundaries and distance world, affecting everything beginning from our day-by-day life to the environment by surprising degree. Trends and consequences of the contemporary studies constantly confirm contribution of the IT tools in Human Resources (HR) area i.e. to achieve allocated HR undertakings by utilizing the fountain of IT capacities. The researcher developed a questionnaire to examine study hypothesis using a population of officials in HR Departments for several companies in KSA for the study. The researcher distributed 100 questionnaires and about 95 out of the 100 questionnaires were responded to and used for analysis. Finally, depending on statistical analysis, a significant relation of IT systems application on HR sector growth was developed. The researcher, therefore, recommends making use of Information technology administration in all sizes of KSA firms, establishments, and associations in the future.

Keywords: Information Technology, Human Resources Management, Organization Structure, human resource, Company's Goals, Recruiting, Idea Management, Efficiency of Employees Performance.

CBA RESEARCH PUBLICATION ABSTRACT

EMPIRICAL STUDY OF JOB SATISFACTION AMONG FACULTY MEMBERS OF HIGHER & TECHNICAL UNIVERSITIES IN INDIA

Sayeeduzzafar Qazi, Mohammad Saleh Miralam, Vikram Jeet

* British Journal of Economics, Finance and Management Sciences ,2017,14, (1)

ABSTRACT

Job satisfaction has been defined as the "positive emotional state resulting from the appraisal of one's job"(Locke 1976). Job satisfaction has many dimensions such as: organization system, work itself, wages, and recognition, rapport with supervisors and coworkers, and chance for advancement. Each dimension contributes to an individual's overall feeling of satisfaction with the job itself, but different people define the "job" differently. The purpose of this study was to identify the factors which influence the job satisfaction of faculty members and to identify the factor which improves the satisfaction level of faculty members. The study was conducted on 240 faculty members working in various universities and, was randomly drawn using questionnaire method. It was found that organization vision (1), respect(4), result feedback and motivation(3), management system(3), pay and benefits(2), and work environment(2), all six major factors were contributed towards the faculty satisfaction. The results also suggest that the factors had satisfactorily explained job satisfaction and that the policy makers should focus on the factors that affect employee job satisfaction, if the universities want to enhance their performances.

Keywords: Pay and Benefits, Management System, Work Environment, Result Feedback and Motivation, Job Satisfaction

CE RESEARCH PUBLICATION ABSTRACT

ENHANCEMENT OF FLUORESCENCE AND PHOTOSTABILITY BASED ON INTERACTION OF FLUORESCENT DYES WITH SILVER NANOPARTICLES FOR LUMINESCENT SOLAR CONCENTRATORS

Sara El-Molla, A. F. Mansour, A. E. Hammad

ABSTRACT

* Journal of Nanomaterials, 2017, (2017)

For luminescent solar concentrators (LSCs), it is important to enhance the fluorescence quantum yield (FQY) and photostability. Our measurements have demonstrated that the addition of silver nanoparticles to dye solution causes broadening of absorption bands, so the spectral range of sunlight absorbed by LSC has increased. Silver nanoparticles (NPs) were characterized by X-ray diffraction (XRD) and UV-Vis absorption spectra. UV-Vis spectrum showed a single peak at 442 nm due to the surface plasmon resonance (SPR). The position of SPR peak exhibited a red shift after the sample was exposed to UV irradiation (unfiltered light). The optical band gap values have a reduction from 2.46 to 2.37 eV after irradiation for 960 minutes. Such reduction in optical band gap may be due to change in particle size calculated using Mie theory. The photostability of organic dyes used was improved after adding silver nanoparticles. The area under fluorescence spectra of dyes with silver NPs increased by 41–31% when compared with identical dye concentrations without silver nanoparticles as a result of interaction of the species with silver NPs.

Keywords: which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.

CE RESEARCH PUBLICATION ABSTRACT

ENHANCING THE MICROSTRUCTURE AND TENSILE CREEP RESISTANCE OF SN-3.0AG-0.5CU SOLDER ALLOY BY REINFORCING NANO-SIZED ZNO PARTICLES

A.E. Hammad*, A.A. Ibrahim

* Microelectronics Reliability, 2017, 75, (August), 187-194

ABSTRACT

Sn-Ag-Cu lead-free solders are regarded as a potential substitute for Pb-Sn solder alloys. In the current study, the non-reacting, non-coarsening ZnO nano-particles (ZnO NPs) were successfully incorporated into Sn-3.0Ag-0.5Cu (SAC305) lead-free solder by mechanical mixing of ZnO powders and melting at 900 °C for 2 h. Tensile creep testing was performed for plain SAC305 solder and SAC305-0.7 wt% ZnO NPs composite solders and a Garofalo hyperbolic sine power-law relationship was created from the experimental data to predict the creep mechanism as a function of tensile stress and temperature. Based on the tensile creep results, the creep resistance of SAC305 solder alloy was improved considerably with ZnO NPs addition, although the creep lifetime was increased. From microstructure observation, reinforcing ZnO NPs into SAC305 solder substantially suppressed the enlargement of Ag₃Sn and Cu₆Sn₅ intermetallic compound (IMC) particles and decreased the spacing of the inter-particles between them, reduced the grain size of β-Sn and increased the eutectic area in the alloy matrix. The modification of microstructure, which led to a strong adsorption effect and high surface-free energy of ZnO NPs, could result in hindering the dislocation slipping, and thus provides standard dispersion strengthening mechanism. Moreover, the average activation energy (Q) for SAC305 and SAC305-0.7ZnO alloys were 50.5 and 53.1 kJ/mol, respectively, close to that of pipe diffusion mechanism in matrix Sn.

Keywords: Microstructure, Lead-free solder alloys, Intermetallic compound (IMC), Creep properties

CE RESEARCH PUBLICATION ABSTRACT

INTERACTION OF INDIVIDUAL IONS, ION-WATER CLUSTERS WITH AQUAGLYCEROPORIN AND AQUAPORIN-1 CHANNELS

Hakim Al Garalleh*, Ngamta Thamwattana, Barry J. Cox, and James M. Hill

* Journal of Computational and Theoretical Nanoscience, 2017, 14, (4), 1–6

ABSTRACT

Aquaglyceroporin and aquaporin-1 channels provide a mechanism for the transport of water and ions through cell membranes. The present paper proposes a precise geometric structure of these channels to explain their mechanism as selective channels. It provides a mathematical model to deduce the potential energy of the interaction between non-bonded individual molecules, such as calcium chloride and sodium chloride, interacting with aquaglyceroporin and aquaporin-1 channels, which are assumed to comprise two flaired right cylinders. We evaluate the potential energy both as arising from the calcium, sodium and chlorine as discrete atoms, interacting with the aquaglyceroporin and aquaporin-1 channels which are assumed to have atoms uniformly distributed throughout their volumes. Furthermore, we investigate the van der Waals interaction between ion-water cluster and aquaporins. We present numerical results describing the acceptance of individual molecules inside the aquaporin channels. Our calculations predict that calcium, sodium and chlorine ions and ion-water clusters are readily accepted into the aquaporins.

Keywords: Aquaporins (AQPs), Aquaporin-1 (AQP1), Aquaglyceroporin (GlpF), Calcium (Ca²⁺), Chlorine (Cl⁻) and Sodium (Na⁺), Ion-Water Cluster, Lennard-Jones Potential, van der Waals Interaction.

CE RESEARCH PUBLICATION ABSTRACT

MODELLING OF ENCAPSULATION OF CYSTINE AMINO ACID INSIDE A SINGLE-WALLED CARBON NANOTUBE

Hakim Al Garalleh

* [An International Journal on Multidisciplinary Materials Research: Mater. Express](#), 2017, 7, (5)

ABSTRACT

Carbon nanotubes are very important types of nano-materials that are capable of transportation of different biomolecules, through their external and internal walls, to the targeted cells. In this paper, we model the interaction which is arising from the encapsulation of Cystine amino acid inside a single-walled carbon nanotube. Carbon nanotube are selective and excellent nano-devices because of their huge potential that is used in protein delivery and disease treatment. We consider two possible structures as models of Cystine amino acid which are an ellipsoid and cylinder group of atoms. We adopt the Lennard-Jones potential and continuum approach to obtain the interaction energy for each configuration. Our results indicate that the radius of nanotube plays a critical role in determining the magnitude of total energy and the encapsulation of Cystine occurs when $r > 3.391 \text{ \AA}$ which are in a very good agreement with recent experimental studies. Our model predicts that the scientific researchers could design and develop new nano-devices with distinct properties to avoid the energetic barriers and increase the ability of nanotube for maximum loading of targeted drug delivery.

Keywords: Carbon Nanotubes (CNTs), Cystine Amino Acid, Encapsulation, Potential Energy, van der Waals Interaction, Continuum Approximation, Lennard-Jones Potential.

CE RESEARCH PUBLICATION ABSTRACT

MODELLING INTERACTION BETWEEN A METHANE MOLECULE AND BIOLOGICAL CHANNELS

Hakim Garalleh, Ngamta Thamwattana, Mazen Garaleh

* Journal of Computational and Theoretical Nanoscience, 2017,14,(7),3416-3421

ABSTRACT

Aquaporins are small ubiquitous membranes in biological channels that play significant role in the transportation of nano-sized materials, such as water and other biomolecules, into cell. The present work proposes a mathematical model to determine the potential energy of the interaction between a methane molecule and three different types of aquaporin channels, which are aquaporin-Z, aquaglyceroporin and aquaporin-1. We adopt a continuous model, where all atoms comprising the aquaporin channels are assumed to be uniformly distributed throughout their volumes. We also assume that a methane molecule comprises two parts: A single point representing the carbon atom at the centre and a spherical shell of four evenly distributed hydrogen atoms. Our results indicate the naturalistic acceptance of a methane molecule inside aquaglyceroporin and aquaporin-1 channels, but the repulsion occurs for the case of aquaporin-Z channel.

Keywords: Aquaglyceroporin (GlpF), Aquaporin-1 (AQP1), Aquaporin-Z (AqpZ), Lennard-Jones Potential, Methane Gas (CH₄), van der Waals Interaction

CE RESEARCH PUBLICATION ABSTRACT

MODELING OF ENCAPSULATION OF ALANINE AMINO ACID INSIDE A CARBON NANOTUBE

Hakim Al Garalleh*, Mazen Garalehab

* Journal of Biotechnology & Biomaterials, 2017, 7, (2)

ABSTRACT

Carbon nanotubes play a significant role in facilitating and controlling the transportation of drugs and biomolecules through their internal and external surfaces. Carbon nanotubes are also selective nano devices because of their outstanding properties and huge potential use in many bio-medical and drug delivery applications. The proposed model aims to investigate the encapsulation of Alanine molecule inside a single-walled carbon nanotube, and to determine the minimum energy arising from the Alanine interacting with single-walled carbon nanotubes with variant radius r . We consider two possible structures as models of Alanine amino acid which are a spherical shell and discrete configuration modelled as comprising three components: the linear molecule, cylindrical group and CH_3 molecule as a sphere, all interacting with infinite cylindrical single walled carbon nanotube. The adsorption of Alanine amino acid and magnitude of total energy for each orientation calculated based on the nanotube radius r and the orientation angle ϕ which the amino acid makes with central axis of the cylindrical nanotube. Our results indicate that the Alanine molecule encapsulated inside the nanotubes of radius greater than 3.75 \AA , which is in excellent agreement with recent findings.

Keywords: Carbon nanotube (CNT); Alanine amino acid; Encapsulation; Potential energy; van der Waals Force; Lennard-Jones potential

CE RESEARCH PUBLICATION ABSTRACT

SYNTHESIS AND STRUCTURAL NMR CHARACTERIZATION OF NOVEL PPG/PCL CONETWORKS BASED UPON HETEROCOMPLEMENTARY COUPLING REACTIONS

thar Jakisch, Mazen Garaleh, Mareen Schäfer, Anton Mordvinkin, Kay Saalwächter, Frank Böhme

* Macromolecular Chemistry and Physics, 2017, 218, (23)

ABSTRACT

A new approach to hybrid model network formation based upon heterocomplementary end-linking of four-arm star poly-ε-caprolactone (PCL) and linear polypropylene glycol (PPG) precursors is demonstrated. Specifically, hydroxy-terminated PCL([BOND]OH)₄ and an amino-terminated linear PPG([BOND]NH₂)₂ are reacted with a bifunctional coupling agent containing one carboxylic acid chloride group and one oxazinone group. PCL([BOND]OH)₄ is first reacted with the former in a solution, and the so-obtained oxazinone-terminated intermediate is then reacted with PPG([BOND]NH₂)₂ to form a network both in the solution and in the melt. A strong effect of electron-withdrawing groups on the reactivity of the oxazinone group, and thus on the network formation, is evidenced. Network structure and properties are studied by swelling experiments and low-field multiple-quantum (MQ) NMR, which confirm the successful formation of hybrid networks and provide information on the significant network inhomogeneities. On the methodological side, a reliable approach to MQ NMR data analysis for networks of variable degree of inhomogeneity is discussed.

CE RESEARCH PUBLICATION ABSTRACT

REFORMING SAUDI ARABIA'S ENERGY POLICY BY DEVELOPING THE SOLAR INDUSTRY FOR RESIDENCE AND EVS: A SYSTEM DYNAMICS APPROACH

AMRO A. BANJER

* International Review of Management and Business Research, 2017, 6, (4)

ABSTRACT

This paper analyzes the benefits of installing solar photovoltaics (PV) for both residences and electric vehicles (EVs) on a nationwide scale to support the energy initiatives of Saudi Arabia's Vision 2030. In a different study, the author projects the impact of developing the residential PV industry only. However, this paper emphasizes the additional impact of meeting EV energy consumption needs. In 2016, Saudi Arabia possessed 19 million vehicles; of that total, only 34 thousand were registered hybrid cars and EVs. By 2030, the kingdom will possess 26 million vehicles, or 19 million vehicles if considering the completion of four main cities' metro projects. The transition from 19 million motor vehicles (MVs) to EVs with electric stations is more achievable when considering the execution of the metro projects. Through a system dynamics (SD) simulation, the results show that the elimination of MVs will reduce carbon dioxide by 127 million metric tons, saving 771 million barrels of oil and creating 143 thousand jobs. Additionally, considering the different scenarios of oil prices throughout the simulated years, gross domestic product (GDP) increases by \$170.6, \$231.3, and \$343.9 billion for the low price (LP), medium price (MP), and high price (HP) scenarios, respectively. The development of both projects, the residential and EV station PVs, results in a GDP of \$1388.7, \$1490, and \$1708.2 billion in the year 2030 for LP, MP, and HP, respectively.

Keywords: Policy Reform, System Dynamics, Gasoline, Solar Energy, EV, Saudi Arabia, Oil.

CBA RESEARCH PUBLICATION BOOK CHAPTER

ISSUES IN SERVICE MARKETING IN EMERGING ECONOMIES

Mahmood Ali, Arvind Upadhyay, Vikas Kumar

* book: Promotional Strategies and New Service Opportunities in Emerging Economies, Vipin Nadda, Sumesh Dadwal, Roya Rahimi, IGI Global, Chapter: 6, 2017, pp.130-143

CHAPTER INTRODUCTION

Globalisation and the resulting increase in competition have forced organisations to seek unique ways to gain a competitive advantage over their competition. One of the strategies successfully adopted is transforming/ extending operations into service industry by the manufacturing organisation. This servitisation as packages or 'bundle' of customer focused combination of goods, services, support, self-service and knowledge adds value to core product offering. The focus of service sector marketing is supported by the fact that regarding world gross domestic product (GDP), the share of services increased from 59% in 1985 to 71% in 2011, underlying the major shift in paradigm. In manufacturing industry, this shift, termed as servitisation, has enabled organisations to achieve better profits and financial stability and has also offered them the opportunity to understand their customers better.

CE RESEARCH PUBLICATION BOOK CHAPTER

REACTIVE INKJET PRINTING: FROM OXIDATION OF CONDUCTING POLYMERS TO QUANTUM DOTS SYNTHESIS

Ghassan Jabbor *, Hyung Woo Choi, Mutalifu Abulikamu, Yuka Yoshioka, Basma El Zein and Hanna Haverinen

* book: Reactive Inkjet Printing: A Chemical Synthesis Tool ,Patrick J. Smith Aoife Morrin, Royal Society of Chemistry, Chapter 6, 2017, pp.117-261

CHAPTER INTRODUCTION

In addition to their traditional usage in the production information displays including newspapers of have been and books, printing technologies employed in, and/or enabled, the production steps of other applications in several industries including ceramic/glass tiles and windows, auto and aerospace, circuit boards, RFID labels, and much more. Recently, various printing approaches have been investigated in research fields such as optics and photonics, electronics, biology and medicine, smart packaging, to mention a few. ing techniques such as gravure, offset screen, contact, and inkjet printing have been used in many areas including the fabrication of organic solar cells, silicon solar cells, light emission, batteries, capacitors 10,11 2-14. bioapplications 5-17 and others. sensors 18 The majority of reported scholarly articles on printed materials and devices, in various areas of research and technology, utilize the printer as a vehicle to place (deposit) a certain amount of given material, at certain locations on the substrate surface, without any chemical reactions taking place. On the other hand, a growing branch of research involving the use of reactive chemical components (inks) in the printing process is finding its way into several areas. This approach, often called "reactive printing", can be used in any printing technique, as long as certain measures are taken to avoid the reactivity between the ink and any of the printer's hardware (e.g., corrosion of metallic parts of the printer due to a given oxidizing ink). In what follows, we will focus our discussion on reactive inkjet printing (RIJ) 19 Either thermal or piezoelectric disposal of printed droplets can be used in RIJ. The power of inkjet to accurately control the disposal of inks to extremely small volumes (e.g., picoliters) endows on such approach an attractive feature regarding combinatorial discovery of materials, and optimization of devices and properties. Due to its ability to dispense ultra-small ink volumes, RIJ can then be used as a tool to optimize a certain process. In this case, the knowledge gained and discoveries made can be transferred, and process variables adjusted accordingly, to initiate a roll-to-roll, or any high throughput reactive printing process, thus saving the production process much in materials and development costs, and shortening the time to market.

ORAL

PARTICIPATION IN CONFERENCE

DEVELOPING INNOVATIVE SUPPLY CHAIN USING CROWDSOURCING: A CONCEPTUAL MODEL

Mahmood Ali, Asim Majeed

* IEEE IEEM 2017 Conference, December 10 -13, 2017, Singapore

ABSTRACT

The advancement in information technology has revolutionised the supply chains across the globe. It has enabled organisations to be more efficient and integrated, while continually improving by incorporating latest trends and technologies. Among the recent trends, crowdsourcing is contributing toward improved operations and innovation by seeking the involvement of users, customers and thinkers into generating new ideas and incorporating those into current or future processes. However, the application of crowdsourcing in the supply chain is very limited. Considering its potential benefits, this paper proposes a conceptual model to develop an innovative supply chain by incorporating crowdsourcing. This paper presents an innovative approach which enables researchers and practitioners to study the benefits of crowdsourcing on the supply chain. Identification of the conceptual relationship between crowdsourcing and the supply chain author hopes will contribute towards the development of new theoretical approaches in this field.

Dr. Basma El Zein participated in the World Congress on Nanoscience and Nanotechnology in the conference titled: Recent developments in Nanotechnology and Nanoscience. The event took place on 16-17 October 2017 in Dubai, United Arab Emirates. She presented her latest research about Nanomaterials for 3rd Generation Sensitized Solar Cells.

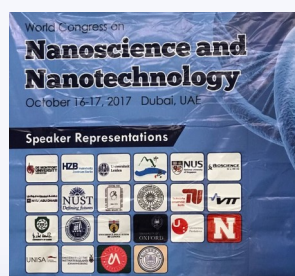
NANOMATERIALS FOR 3RD GENERATION SENSITIZED SOLAR CELLS

Basma El Zein

* World Congress on Nanoscience and Nanotechnology ,2017,16-17 October,United Arab Emirates,Dubai

ABSTRACT

Nano-materials are considered as building block for many optoelectronic devices. They differ from bulk counterpart in the size, characteristic and offer new opportunities to be employed in various applications. Zero dimensional (0D) and one dimensional (1D) nanostructures have attracted lots of attention in solar energy harvesting, conversion and storage, owing to their unique physical and chemical properties. Nano-materials offer many advantages in energy conversion specifically in solar cells. These solar cells, depends on the physical interaction between nanomaterials or chemical reaction at the surface or interface of the nanomaterials. In this presentation, we will discuss the zero and one dimensional nanostructures and the role they play in increasing the conversion efficiency of solar cells, taking in consideration the materials to be used to meet the main objective of developing an eco-green solar cell with high conversion efficiency





UBT AT CENTER FOR ARAB EUROPEAN STUDIES

UBT PARTICIPATES IN PARIS 5 DIALOGUE

On the 25th anniversary of the establishment of the Center for Arab European Studies, and in honor of its founders and successful partners, the Center organized the Paris 5 dialogue. The event took place on Wednesday, October 11, 2017, in Paris, France and the seminar discussed "Role of Study Centers in Decision Making". Many prominent Arab and European personalities who provided the Center with support and guidance in its early years attended the event, the University of Business and Technology is one of them.

Dr. Abdullah Dahlan, president of UBT, Prof. Hussein Al-Alawi head of the Advisory Board of UBT, Dr. Basma El Zein, dean of Scientific Research and Dr. Loay Al-Tayar, dean of Student Affairs attended the seminar.

Dr. Saleh Ben Baker Al-Tayyar President of the Center for Arab-European Studies gave the opening speech. Succeeding, Dr. Abdulaziz Al-Twaijri, Director General of the Islamic Educational, Scientific and Cultural Organization (ISESCO) and Dr. Abdul Latif bin Rashid Al Zayani - Secretary General of the

Gulf Cooperation Council spoke about the role of the centers of studies in decision-making from an Arab and Islamic point of view.

His Royal Highness Prince Turki Al Faisal Bin Abdulaziz Al Saud, president of King Faisal Center for Research and Islamic Studies (Saudi Arabia) spoke about Takfiri movements and regional and international threats which face the Arab world and the role of study centers in facing them during the first session of the seminar. He talked about enriching the intellectual and the cultural dialogue to serve Arab and Islamic issues. He demanded that Arab organizations and research centers gain more attention from both national Arab media and international media. This can be achieved when these institutions become more active in social media, and in many languages including Arabic, English, Turkish, French, and others.

The second session tackled the topic of the crises of the Arab world financial, economic and oil. Dr. Abdullah Dahlan joined in a discussion about the challenges of water and food security and the role



of study centers in facing them. During his speech, Dr. Dahlan recognized the efforts of the Deanship of Scientific Research in supporting all research needed to overcome current obstacles in Saudi Arabia and the Arab world. In addition, Mr. Mohammad Ali Al-Naqi chairman of Kuwait Industries Company and Professor Michel Roemi, from the University of Paris - Dauphine and an advisor to the Bank of France (France) also spoke about the topic.

The third and final session tackled the topic of cultural and media challenges that threaten the Arab World and the role of study centers and specialized councils in confronting them. Speakers in this session are: Dr. Mofid Mahmoud Shehab Professor

of International Law and Lawyer at the Egyptian Court of Cassation Minister of State for Legal Affairs and Parliamentary Councils (Egypt), Dr. Abdulaziz Al-Tuwaijri Director General ISESCO, Dr. Hussein Shaaban, International Legal Researcher (Iraq), and Mr. Ahmed Bin Mohammed Al-Jarwan, Chairman of the Founding Council of the World Council for Tolerance and Peace.

The audience praised the efforts of the Euro Arab Center for Studies for defending Arab interests in the West and promoting the role of intellectuals in supporting political actors. At the end of the seminar, President of the Center DR. Saleh Al-Tayar presented Prince Turki Alfaisal with an honorary award for his contribution.





DR. LULWA MUTLAQ AT THE GCC HR AND LABOR MARKET EXECUTIVES CONFERENCE

Dr. Lulwa Mutlaq, vice rector of the girl's campus at UBT, and chairman of the Training, HR Development, and Education Committee at Bahrain Chamber of Commerce and Industry. She was a participating speaker at the GCC Human Resources and Labor Market conference under the slogan "Gulf Human Capital, a Promising Wealth" in Sharjah, United Arab Emirates 15-16 October 2017.

This event is organized by the Federation of Gulf Chambers, the Federation of UAE Chambers of Commerce and Industry, and the Sharjah Chamber

of Commerce and Industry (SCCI). The conference achieves results in many areas of human resources development in the Gulf and contributes towards achieving mechanisms to address the challenges facing it. This progress was made through the participation of officials, specialists, and experts in the field of human resources in the Gulf.

At the end of the forum, HH Sheikh Sultan Bin Muhammad Bin Sultan Al-Qasimi, The Crown Prince and Deputy Ruler of Sharjah awarded Dr. Mutlaq a certificate as an appreciation for her contribution.

UBT AT ROCHESTER INSTITUTE OF TECHNOLOGY

UBT VISITS RIT DUBAI

Rochester Institute of Technology (RIT Dubai) was established in 2008 to provide world-class educational university programs in the United Arab Emirates for students and professionals from the Middle-East, North Africa, and South East Asia. RIT Dubai offers graduate degree programs in several disciplines in engineering, computing, business and service leadership. The university will also develop and deliver curriculum as well as advance scholarship relevant to emerging technologies and social conditions of the region. In 2010, RIT Dubai started offering Bachelor of Science degrees in Marketing, Management, Electri-

cal Engineering & Mechanical Engineering. These degree programs have been selected to support the need for personal and professional development, economic growth, in addition to human capital development in Dubai and the Gulf region. Prof. Osama Jannadi, rector of UBT and Dean of Scientific Research Dr. Basma El Zein visited Rochester Institute of Technology (RIT) in Dubai on 15 November 2017. During the Visit, Dr. Basma presented a seminar about "Nanomaterials for 3rd generation solar Cells" to engineering students as part of the IEEE Women in Engineering Seminar.



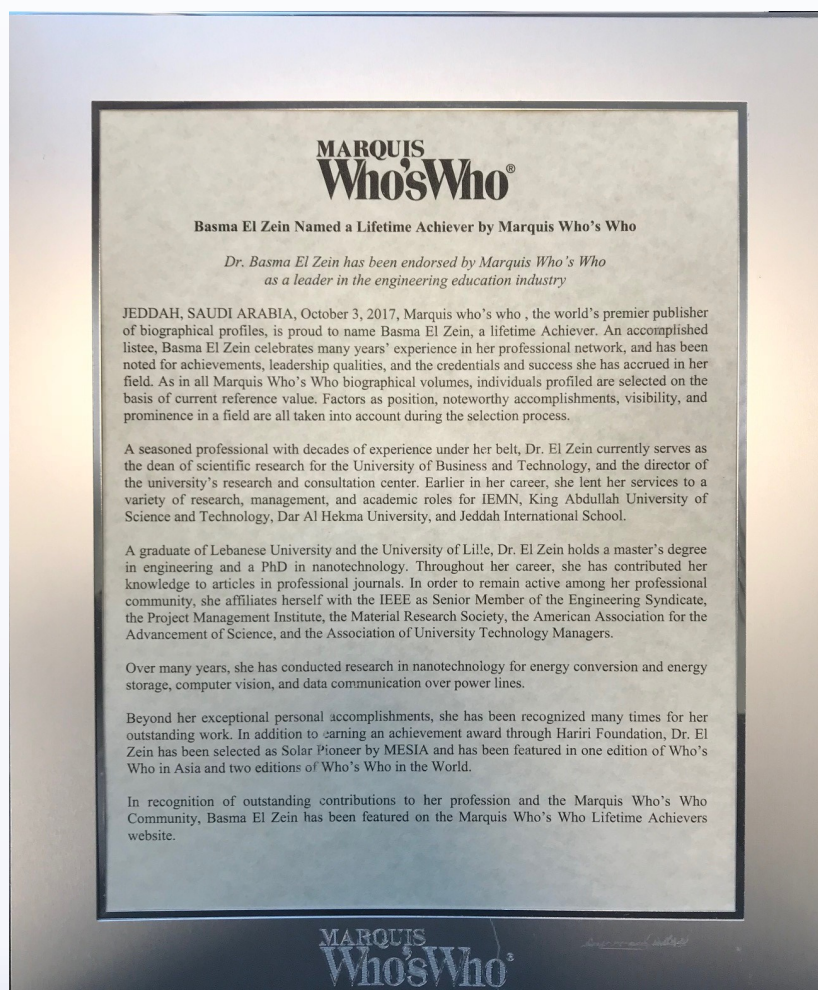
COMMUNITY SERVICES

Dr. Basma El Zein has volunteered to speak in a webinar about Nanomaterials for 3rd Generation Solar Cells on 19 November 2017. IEEE has awarded Dr. Basma a certificate in appreciation for her efforts, services, and contributions.



WHO'S WHO

Marquis who's who, the world's premier publisher of biographical profiles, named Basma EL Zein, a Lifetime Achiever on 4 October 2017. Dr. Basma has been noted for her achievements, leadership qualities, visibility, and the success she has accrued in her field.



RESEARCHER OF THE MONTH

Ahmed M. Asfahani
College Of CBA

SEPTEMBER

- HOW MANY PUBLICATION I HAVE? ✓
- I GOT AN AWARD !
- I HAVE AN INVENTION /CREATIVE IDEA !
- I HAVE A HIGH CITATION !

WHO'S NEXT
RESEARCHER OF THE MONTH

UBT
جامعة الأعمال والتكنولوجيا
UNIVERSITY OF BUSINESS AND TECHNOLOGY

Mahmood Ali
College Of CBA

OCTOBER

- HOW MANY PUBLICATION I HAVE? ✓
- I GOT AN AWARD !
- I HAVE AN INVENTION /CREATIVE IDEA !
- I HAVE A HIGH CITATION !

WHO'S NEXT
RESEARCHER OF THE MONTH

UBT
جامعة الأعمال والتكنولوجيا
UNIVERSITY OF BUSINESS AND TECHNOLOGY

Hakim Garalleh
College Of CE

NOVEMBER

- HOW MANY PUBLICATION I HAVE? ✓
- I GOT AN AWARD !
- I HAVE AN INVENTION /CREATIVE IDEA !
- I HAVE A HIGH CITATION !

WHO'S NEXT
RESEARCHER OF THE MONTH

UBT
جامعة الأعمال والتكنولوجيا
UNIVERSITY OF BUSINESS AND TECHNOLOGY

Basma El Zein
College Of CE

DECEMBER

- HOW MANY PUBLICATION I HAVE? ✓
- I GOT AN AWARD ! ✓
- I HAVE AN INVENTION /CREATIVE IDEA ! ✓
- I HAVE A HIGH CITATION ! ✓

WHO'S NEXT
RESEARCHER OF THE MONTH

UBT
جامعة الأعمال والتكنولوجيا
UNIVERSITY OF BUSINESS AND TECHNOLOGY



ENDNOTE WORKSHOP

TIn a support to researchers, the Deanship of Scientific Research in collaboration with CBA, CE, and JCA conducted an EndNote workshop on 19 October 2017, at Dahban campus and was attended by 17 faculty members and staff.

Endnote bibliographic software can help in organizing references, images, and article download; create bibliographies and figure lists instantly and efficiently integrate references into research papers. EndNote sorts through years of work in seconds, as it allows to search across reference metadata, full-text journal articles, file attachments, as well as personal intonations and notes. In addition, it allows inserting citations and references into Microsoft Word, creating a bibliography in over 6,000 styles. it also supports group re-

search, as it allows team access to one reference library.

EndNote helps researchers save valuable time, and overcome research limitations.

ABOUT THE TRAINER:

Dr. Stephen Buck is a Specialist in Physical Sciences and Engineering at King Abdullah University of Science and Technology (KAUST). Stephen Buck has been working in KAUST library as a subject specialist since April 2015. Prior to that, he was the Periodicals and Electronic Resources Librarian at Dublin City University, Ireland. He has also worked as a librarian in University College Dublin and Trinity College Dublin.



ORCID WORKSHOP

The Deanship of Scientific Research has arranged an ORCID workshop for researchers in UBT in collaboration with KAUST. Dr. Daryl Grenz directed the workshop on Thursday 30 November at Dahban campus. The Workshop was attended by 20 faculty members and staff interested in research. The workshop explained in detail what, how, and why to be a member of ORCID (Open Researcher and Contributor ID) an identifying system that is being used by journals, publishers, funders and other institutions to uniquely identify researchers. The workshop included ways that help manage the information about research activities over time, between institutions and across multiple information systems. The session also introduced tools that can help researchers reuse the information from the ORCID record and

track how their research is being used and shared.

ABOUT THE TRAINER:

Daryl Grenz is the Digital Repository Coordinator in the KAUST Library where he works to implement the university's open access policy via publications tracking and harvesting. He focuses on developing integrations between the repository and a variety of university, publisher, indexing, and identifier systems (such as ORCID), while also providing training on the use of the repository and related services. Daryl holds a Masters of Library and Information Science from the University of Washington and a BA in German and History from Gettysburg College.



DR. BASMA EL ZEIN JUDGING AT THE INTEL ISEF 2018

Dr. Basma El Zein was selected to be a judge on the Grand Award at the Intel International Science and Engineering Fair (Intel ISEF) 2018 in Pittsburgh, USA.

The Intel ISEF, a program of Society for Science & the Public (the Society), is the world's largest international pre-college science competition. Each year, more than 1,800 high school students from more than 75 countries, regions, and territories are awarded the opportunity to showcase their independent research and compete for on average \$4 million in prizes.

Today, millions of students worldwide compete each year in local and school-sponsored science fairs; the winners of these events go on to participate in Society-affiliated regional and state fairs from which the best win the opportunity to attend Intel ISEF. Intel ISEF unites these top young scientific minds, showcasing their talents on an international stage, where doctoral level scientists review

and judge their work. Participants are judged based on their creative ability and scientific thought, as well as the thoroughness, skill, and clarity shown in their projects.

The Society partners with Intel—along with dozens of other corporate, academic, government and science-focused sponsors—who provide the support and awards for Intel ISEF.

Dr. Basma was chosen for her vast expertise in academia, science, and research. Her evaluation of the participating projects is highly valued and will determine the distribution of millions of dollars in prizes, awards, and scholarships. In addition, her views, feedback, and encouragements are much needed, as they play an important role in influencing these students to become the future science and engineering leaders of tomorrow.



DR. BASMA EL ZEIN MEMBER OF THE ARAB INVESTOR AWARD COMMITTEE

The Arab Investor Award is an initiative by Natheem Sabbah editor of the Arab Investor magazine supported by the Australian University of Wollongong in Dubai. What characterizes this Award is the team of scientists, intellectuals, researchers, and encomiasts interested in public affairs and community service.

The Award aims to honor distinguished performance in innovation, sustainability, and investment. It also provides an environment that supports dialogue between investors in the Arab world, which represents a learning opportunity regarding investment standards and best practices. Moreover, this award highlights achievements and contributions towards economic development, which encourages entrepreneurs and promotes for gender equality in the investment field in the Arab

world. In addition, the Award aims at attracting foreign investments to the Arab world.

Dr. El Zein was featured in Ahram Alyom, an electronic newspaper on 11 December 2017 after being a member of the Arab Investor Award Committee.

The article reviewed Dr. Basma's experience in academia and research. It mentioned her research interests and her accomplishments in the field of Nano-Technology. It also celebrates her contributions, as Dr. El Zein is the chair or co-chair on committees of different international conferences, and is a senior member of IEEE, and a member of many other prestigious organizations including the Arab Inventor Award. She was most recently announced a judge on at Intel International Science and Engineering Fair (ISEF) 2018.

PH.D. CO-SUPERVISION PROGRAM

DSR SUPPORT PROFESSIONAL DEVELOPMENT

UBT, as a mean of professional development to its precious lecturer, is supporting all master holders to continue their Ph.D. as a co-supervision program with national and international and highly ranked universities all around the world.

Due to family constraints or social issues, UBT through its Deanship of Scientific Research (DSR), will support, guide and orient the highly motivated lectures to pursue their Post-graduate studies. In this respect, the co-supervision program is developed to help our lecturers achieve their career objective and get promoted to Assistant professors.

Dr. Basma El Zein, dean of Scientific Research holds one-on-one regular meetings with Ph.D. students

on Sari and Dahban campuses to discuss issues and provide support regarding research topics, proposals and obtaining offer letters from national and international universities. Once proposals have been approved and offer letters are received, DSR also supports faculty and staff in all legal requirements between the hosting university and UBT.

During their studies, DSR also provides support through the progress reports and supervisors evaluations. In addition, monthly meetings are held with the dean of DSR to discuss any issues.

Moreover, DSR organizes many workshops that support researchers, such as how to write a successful proposal, how to write an abstract, how to interpret and analyze data, etc.

Pre-Entry Phase	Entry Phase	Post-Entry Phase
<p>In this phase, the Ph.D. candidates will submit the required documents to start the process.</p> <ol style="list-style-type: none"> 1. Fill out the form 2. Submit needed documents e.g. master certificate, etc. 3. Submit research interest and the university preference. 4. Submit a proposal 5. Meeting with the Dean of DSR 6. Select supervisor 7. Communicate with supervisor 8. Successful completion of a Ph.D. preparation program 9. Appoint a supervisor 	<p>In this phase Ph.D. candidate will make the needed agreements with both universities:</p> <ul style="list-style-type: none"> • Register at the host university • Sign the Ph.D. co-supervision agreement • Get the residency ID in the host country • Get the agreement contract between the host university and UBT 	<p>This is the follow-up process where a Co-advisor from UBT is assigned.</p> <ul style="list-style-type: none"> • At the end of each academic year, the Ph.D. student should submit: • Progress report • Supervisor evaluation • Copy of their yearly registration. <p>The supervisor should submit:</p> <ul style="list-style-type: none"> • Annual Ph.D. student evaluation.

Research -Call for participation



جامعة الملك عبد الله
للعلوم والتقنية
King Abdullah University of
Science and Technology

**IN COLLABORATION
WITH KAUST**

DSR ANNOUNCED THE 7'TH ANNUAL UNDERGRADUATE POSTER COMPETITION


In Collaboration With KAUST, DSR Announced the 7'th Annual Undergraduate Poster Competition

University of Business and Technology (UBT) and King Abdullah University of Science and Technology (KAUST) invited all undergraduate students who have amazing ideas and would like to visit one of the world leading Science and Technology research universities to participate in the 7'th annual Undergraduate Poster Competition.

In January 2018, KAUST is hosting its seventh Annual International Research Competition for undergraduate students around the world. This event is a once in a lifetime chance to share and compare work with peers from around the globe, win prizes and experience life in Saudi Arabia at a Premier graduate-level research institution.

The Deanship of Scientific Research (DSR) provided all the support needed for the students. Firstly, students submitted their abstracts to DSR. Then, they were evaluated by a UBT committee and submitted to KAUST by 14 November. Finally, students of the best-accepted abstracts by KAUST will be invited to spend an exciting event-filled week from 21 January 2018.

We wish UBT students the best of luck.



جامعة الملك عبد الله
للعلوم والتقنية
King Abdullah University of
Science and Technology

7th Annual International Undergraduate Poster Competition

Abstract deadline: November 5, 2017

Share your abstract and join us for a week of inspiration this January 2018

If you have amazing ideas and would like to visit one of the world's leading science and technology research universities, we would like to hear from you.

In January 2018, King Abdullah University of Science and Technology (KAUST) is hosting its seventh annual International Poster Competition for undergraduate students around the world. This competition is part of the University's Winter Enrichment Program. This event is a once-in-a-lifetime chance to share and compare your work with peers from across the globe, win prizes and experience life in Saudi Arabia at a premier graduate-level research institution.

All you need to do is submit your best work in poster or video format by November 5, 2017. Authors of up to 50 of the best-accepted abstracts will be invited to spend an exciting, event-filled week at KAUST from January 21 to 25, 2018.


While you are at KAUST, you'll present your abstract, visit our state-of-the-art facilities and be inspired by our faculty and students. You'll also have many opportunities to take part in recreational and cultural activities, from culinary delights to local and marine excursions to relaxation on the shores of the Red Sea in our warm, friendly community.

A prestigious panel of experts will judge your submissions, with valuable prizes for winning work. Our judges will be looking for overall impact, novelty of work, clarity of ideas and creativity, so be sure to submit your best, clearest and most creative work.

We look forward to seeing you!

For more details, visit:
<http://studentopportunities.kaust.edu.sa/WEP/>

For additional information, please email:
weppostersession@kaust.edu.sa



www.kaust.edu.sa

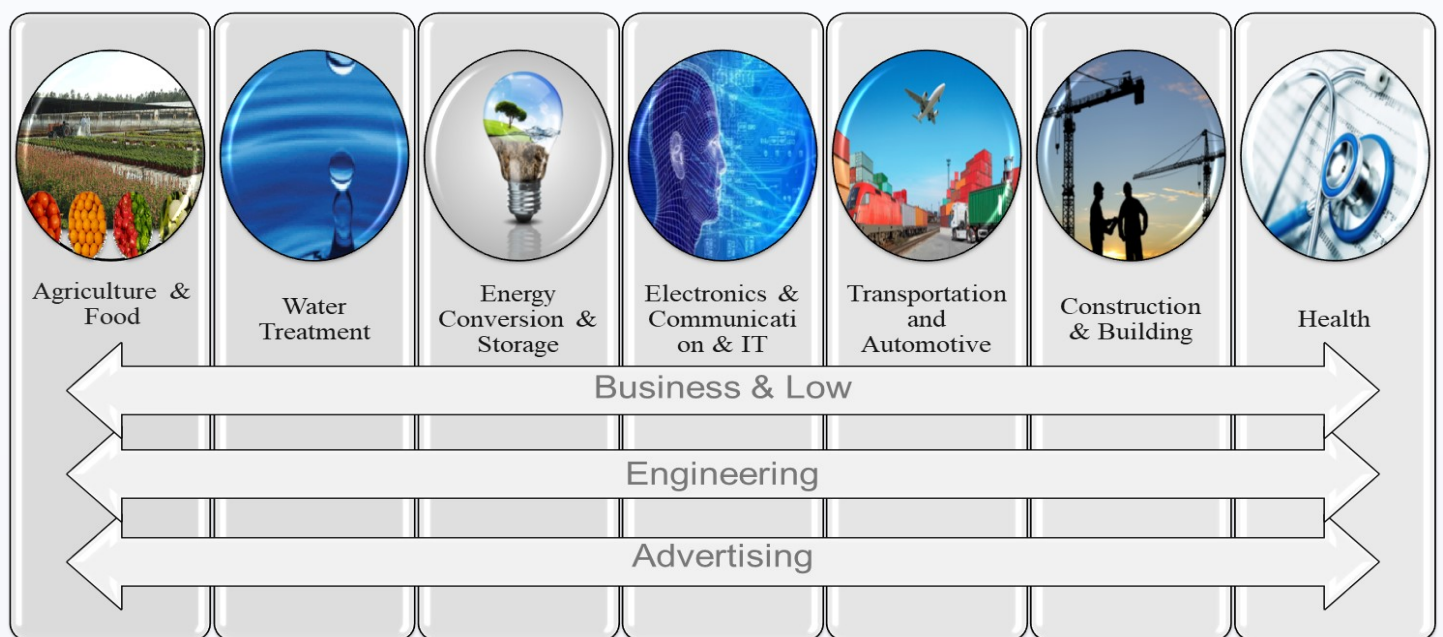
Research -Call for participation

CALL TO PARTICIPATE IN THE 7 FLAGSHIPS

The research flagship is an interdisciplinary research group covering researches in Agriculture and food, Water treatment, Energy conversion and storage, Electronics and Communication and IT, Transport and Automotive, Construction and building, and Health from business, legal, science, technology, and advertising point of view, serving the axes of the economic development.

Registering your research interest will guarantee you better opportunities by connecting you with many researchers who are exploring your area of interest from different perspectives. Moreover, coordinating research efforts will take UBT a step closer towards operating the research roadmap effectively, which contribute to economic development and serve the community.

Please, follow this [Link](#) to register.



EXTERNAL RESEARCH FUND PROGRAM

GULF SCIENCE INNOVATION AND KNOWLEDGE ECONOMY PROGRAMME

The Gulf Science Innovation and Knowledge Programme (GSIKE), is a part of the UK Government's strategy to support long-term relationship between academia in the UK and the Gulf.

The call is funded by the Department for Business, Energy and Industrial Strategy (BEIS), the department that brings together responsibilities for business, industrial strategy, science, innovation, energy, and climate change.

The United Kingdom's International Organization for Cultural Relations and Educational Opportunities, British Council managed this call of proposal.

The GSIKE Programme priority areas included:

- Smart cities
- Cyber security
- Food security
- Water management
- Energy (including the use of battery technologies/clean/renewable and nuclear)

- Water/energy/food nexus
- Advanced materials
- Advanced engineering
- Environment science
- Women's engagement in science, innovation, and leadership
- Entrepreneurship
- Artificial intelligence

Participants submitted their proposals to the Dean-ship of Scientific Research before the 17th of December. The deadline for the submission of applications to the British Council was 20 December 2017.

We wish all participants the best of luck.

جائزة بغداد الدولية لأفضل أطروحة دكتوراه في العلوم المحاسبية



IAESB



جائزة بغداد الدولية
لأفضل أطروحة دكتوراه
في العلوم المحاسبية

شروط وآليات الترشيح:

- 1 أن تكون الجامعة المانحة لدرجة الدكتوراه من الجامعات المعترف بها وفي مجال التخصص.
- 2 أن تكون الأطروحة المنافسة على الجائزة من الأطاريح التي لم يمض عليها سنتين أو (أربعة سنوات في الدورة الأولى فقط) عند الإعلان عن فتح باب الترشيح.
- 3 أن تكون فكرة الأطروحة رائده وأصيلة ولم يسبق أن تناولها شخص آخر بالبحث لنيل درجة علمية.
- 4 أن تكون الأطروحة قائمة على منهج علمي سليم ودراسة ميدانية تطبيقية.
- 5 أن تكون نتائج وتوصيات الأطروحة ذات فائدة عند تطبيقها في المنظمات العربية.
- 6 أن يكون مجتمع البحث في واحدة من الدول العربية.
- 7 أن تكون نتائج الأطروحة مقنعة وذات مردود ايجابي في تحسين مستوى الأداء والنفع العام والخاص.
- 8 أن تكون الأطروحة مكتوبة باللغة العربية أو الانجليزية على أن يقدم ملخص وافٍ وتفصيلي باللغة العربية وبصياغة سليمة وواضحة وفقاً لاستمارة المشاركة.
- 9 أن يكون الباحث عضو في نقابة المحاسبين والمدققين (خاصة بالباحثين العراقيين).

عن الجائزة:

تقوم نقابة المحاسبين والمدققين بالإعلان عن جائزة بغداد الدولية لأفضل أطروحة دكتوراه في العلوم المحاسبية بالتعاون مع (الاتحاد الدولي للمحاسبين IFAC - مجلس معايير التعليم المحاسبي الدولية IAESB) والمنظمة العربية للتنمية الإدارية - جامعة الدول العربية في إطار السعي لتنمية المعرفة النظرية التطبيقية في مجال العلوم المحاسبية على المستوى العربي والدولي وفتح باب الترشيح كل عامان لفئة الباحثين العلميين لنيل جائزة بغداد الدولية لأفضل أطروحة دكتوراه في العلوم المحاسبية.

قيمة الجائزة:

يحصل الباحث الفائز على:

- درع
- مبلغ نقدي قدره ١٠,٠٠٠ دولار أمريكي
- شهادة تقدير تحمل اسم الفائز وملخصاً للعمل الذي أهله للجائزة

الموعد النهائي لتقديم:

٢٠١٧/١١/٣٠

للحصول على معلومات إضافية:

www.arado.org/baghdadaward



Email: DSR@ubt.edu.sa



Tel: +966 (12) 2159353

جائزة إتحاد مجالس البحث العلمي العربية للبحث العلمي المتميز



المجالات البحثية الجائزة:
الزراعة، تقنية المعلومات ، الأمراض الوراثية

شروط وآليات الترشيح:

- 1 أن يكون المرشح عربي الجنسية .
- 2 أن يكون قد قام بالبحث في مؤسسة بحثية عربية (جامعة، مؤسسة، مركز.....).
- 3 أن لا يزيد عمر المتقدم للجائزة وقت التقديم عن ٦٠ سنة .
- 4 أن يقوم المرشح بملء الاستمارة المعدة للترشيح للجائزة.
- 5 أن يرشحه كتابياً المجلس العلمي للجامعة على أن يتضمن خطاب الترشيح مبررات الترشيح و السيرة الذاتية لكل من الأستاذ و المرشح .
- 6 يجب على المرشح إرسال بحثه العلمي من خلال مؤسسته العلمية.
- 7 أن تتوفر موافقة مكتوبة و بطريقة موافية للأمانة العلمية من أعضاء فريق البحث تفيد بموافقتهم على أن يتنافس البحث في الجائزة ، و هذا في حال أجرى البحث فريق بحثي .
- 8 لا تقبل أية إضافات أو تعديلات لأي مستند بعد وصوله.
- 9 لا ينظر في الطلبات التي لا تلتزم بشروط الجائزة و لا تلك التي تصل بعد إنتهاء فترة الترشيح .

للحصول على معلومات إضافية:

<http://www.fasrc.org>

أهداف الجائزة:

- 1 نشر ثقافة البحث العلمي بين شرائح المجتمع العربي.
- 2 الاهتمام بالموهوبين و المبدعين و تجشيعهم على العطاء.
- 3 مساعدة الباحثين في استثمار نتائج أبحاثهم و ابتكاراتهم و تحويلها إلى منتجات.
- 4 التعريف بالباحثين المتميزين بين العاملين بمؤسسات البحث العلمي العربي.

مكونات الجائزة:

- شهادة تتضمن إسم الجائزة و إسم الفائز و سنة الحصول عليها.
- درع إتحاد مجالس البحث العلمي العربية.
- مكافئة مالية قدرها:**
 - (خمسة آلاف دولار) للفائز الأول.
 - (ثلاثة آلاف دولار) للفائز الثاني.
 - (ألفي دولار) للفائز الثالث.

الموعد النهائي لتقديم:

- لعرض الأبحاث المرشحة للمجلس العلمي
٢٠١٧/١٢/٢٠ م
- لإرسال الابحاث المرشحة للجائزة
٢٠١٧/١٢/٣١ م



Email: DSR@ubt.edu.sa



Tel: +966 (12) 2159353

You are cordially invited to attend the Workshop entitled:

Introduction to DOCEAR

INTRODUCTION:

Docear is a unique academic literature management software. It is much more than just a reference or literature manager because it can help a user organize their thoughts visually by creating a mind map as an initial draft of a paper.

Docear is different than any other literature or reference manager. It offers a single-section user-interface with all the information in a single place. This approach offers three massive advantages. First, you can see annotations (comments, bookmarks, highlighted text) of different documents at the same time. Second, you can move annotations to exactly the category they belong to even if

the corresponding document remains in a different category. Third, you can create categories within a PDF and sort annotations within that PDF.

Unique feature of DOCEAR:

- Available for Windows, Mac OS, and Linux
- Drafting your manuscript within Docear and add references directly from your literature repository
- Import annotation, highlight, and bookmark directly from your Pdf file to your DOCEAR
- Sort the notes / annotations into various categories and bibliography references can be created for each entry
- It's completely FREE.. !!!



ANDIKA AJI WIJAYA

Lecturer, Faculty of Engineering
University of Business & Technology

Mr. Andika hold his bachelor and master degree from Mechanical Engineering of Institute of Technology Bandung, Indonesia and Mechatronic Engineering of International Islamic University Malaysia respectively. Previously, he was a research assistant under Intelligent Mechatronic Research Unit where he actively involved in research under field of intelligent vibration control and precision Point-to-point (PTP) control system. Since November 2010, he has been a faculty member in Industrial Engineering Department of University of Business & Technology (UBT). Apart from his responsibility as a lecturer, he is doing his doctoral study in Mechanical Engineering at University of Valenciennes, France. His recent research focuses on the application of nanofluids and nanocoating to enhance heat transfer efficiency.

PRACTICAL INFORMATION

- When: 4th Of January 2018
- Time: from 12:00 pm - 1:30 pm
- Where: At Workshop room in CE building

For further information

please contact us on:

DSR@ubt.edu.sa; +966122159353

You are cordially invited to attend the Workshop entitled:

How to make a Scientific Poster



**Difference between oral
and poster presentation**



How to design your poster



Basma El Zein

Dean of Scientific Research at the University of Business & Technology (UBT)

Dr. El Zein has 18 years of experience in academic and research institutions. Previously, she was appointed as Director of Research and Consultation Center (RCC) and the Director of the Research and Curriculum Development Unit at College of Engineering and Information Technology (CEIT) at UBT. She was a Research Scientist at King Abdullah University of Science and Technology (KAUST), and previously a faculty member at Dar Al Hekma University, KSA. Dr. El Zein was an associate researcher at the Institut D'Electronique, Microelectronique et Nanotechnologie (IEMN), Lille, France.

During her years of experience, she distinguished herself with a large and ongoing research, projects, and commitment to development. In this capacity she is dramatically developing the Research at the UBT, focusing on the Kingdom Vision 2030 and the Transformational Plan 2020, through developing

many international collaborative programs, workshops, and seminars with many international institutes and universities in Europe, England, and USA, aiming to raise students', staff's and faculty's knowledge and awareness and their interest towards research.

Dr. El Zein is a grand Judge at Intel ISEF- USA, an examiner at King Abdul Aziz city for science and Technology (KACST), and a board member of Arab Investor Award.

Dr. El Zein is a renowned guest speaker at many international conferences on renewable energy and nanotechnology. Additionally, she published in many international journals and has one patent filed in the USA related to materials for Solar Cells. Dr. El Zein was acknowledged for her remarkable contribution to the field of research, teaching, community service, and industry in Saudi Arabia.

PRACTICAL INFORMATION

- When: 11th Of January 2018
- Time: from 12:00 pm - 1:30 pm
- Where: At Workshop room
in CE building

For further information

please contact us on:

DSR@ubt.edu.sa; +966122159353

You are cordially invited to attend

Research Open day

DRS open day:

The Deanship of Scientific Research (DSR) supports UBT's research mission and solve problems facing the business sector and the whole economy in Saudi Arabia and the region, in line with Saudi Vision 2030 and the Development Plan 2020. The Deanship brings together faculty members, staff, and students, unifying their efforts to develop interdisciplinary approaches to goal-oriented problems by linking researchers and the

industry together, providing an opportunity to solve current issues facing the Saudi community and economy.

DSR is organizing an open day to introduce and inform UBT members about the services provided through its Research Development Department, Economic Development Department, Publication Department, and Consultancy services.

It will include the following workshops:

How to write a successful proposal

- Motivation to write a proposal
- The sponsor
- Team
- The reviewer/evaluator
- Common mistakes
- Proposal section
- Guidelines

Research Integrity

- What's research
- Research Team
- Publication
- Authorship
- Research Manuscript
- Publication Process
- Research misconduct

PRACTICAL INFORMATION

- When: 15th Of February 2018
- Where: At Workshop room
in CE building

For further information

please contact us on:

DSR@ubt.edu.sa; +966122159353

You are cordially invited to attend the Workshop entitled:

SPSS Workshop

Introduction :

The Deanship of Scientific Research (DSR) supports UBT's research mission and solve problems facing the business sector and the whole economy in Saudi Arabia and the region, in line with Saudi Vision 2030 and the Development Plan 2020. The Deanship brings together faculty members, staff, and students, unifying their efforts to develop interdisciplinary approaches to goal-oriented problems by linking researchers and the industry together, providing an opportunity to solve current issues facing the Saudi community

and economy.

On this note, DSR organizes a series of workshops to support researchers and entrepreneurs:

-SPSS Workshop

SPSS is the data management software package produced by IBM and makes statistical data analysis straightforward. Its functionality ranges from simple plots and charts, through to much more sophisticated statistical tests. Although very broadly applicable, SPSS is very well suited to analyzing survey data.

This course includes hands-on exercises in a workshop environment, including:

- The Data Analysis Process
- Surveys vs Experiments
- SPSS Window Types: Data, Output, Syntax
- SPSS File Types: Data, Output

Upon completion of this course, candidates will be able to perform basic statistical analyses, data checking and create simple tables and charts.

This course allows individuals to work independently with SPSS on their own data and provides a solid foundation for more advanced data analysis work.

For further information

please contact us on: DSR@ubt.edu.sa; +966122159353

UBT – DSR IS PLEASED TO ANNOUNCE

SECOND CALL FOR RESEARCH PROPOSAL 2017/2018

Date To Remember :
1st of March 2018

What to submit :

- 2 Hard Copies
- 1 CD/USB Soft Copy

CBA

CE

JCA

CL

BRIEF PROCESS



RESEARCH AREAS

Flagship Research



UBT – Deanship of scientific research IS PLEASED TO ANNOUNCE

Call For Research Proposal

KACST-Grants Programs for Universities and Research Centers (GPURC)

UBT / Deanship of scientific research is calling for proposals for the external fund from KACST-GPURC National Research Fund.

Any faculty from UBT can apply to this Grant Program with certain conditions:

- Approval of UBT
- Obtain the Letter of Intent from UBT Scientific Council
- Follow UBT policies and procedures for external fund.
- Follow KACST policies and Procedures

AREAS OF RESEARCH:

Applied Research	<ul style="list-style-type: none"> • Water • Energy
Innovation Research	<ul style="list-style-type: none"> • Oil and gas • Petrochemicals and materials • Medicine and health
Directed Research	<ul style="list-style-type: none"> • Aerospace and aviation • Agriculture and food industries
Industrial Development	<ul style="list-style-type: none"> • Construction and construction • Electronics and Information and Communication Technology Environment
Industrial Innovation	<ul style="list-style-type: none"> • Defense and security • Transportation

EVALUATION CRITERIA:

- Intellectual
- Impact
- Work Plan
- Qualification of the Team
- Budget
- Research Compliance

DATES TO REMEMBER:

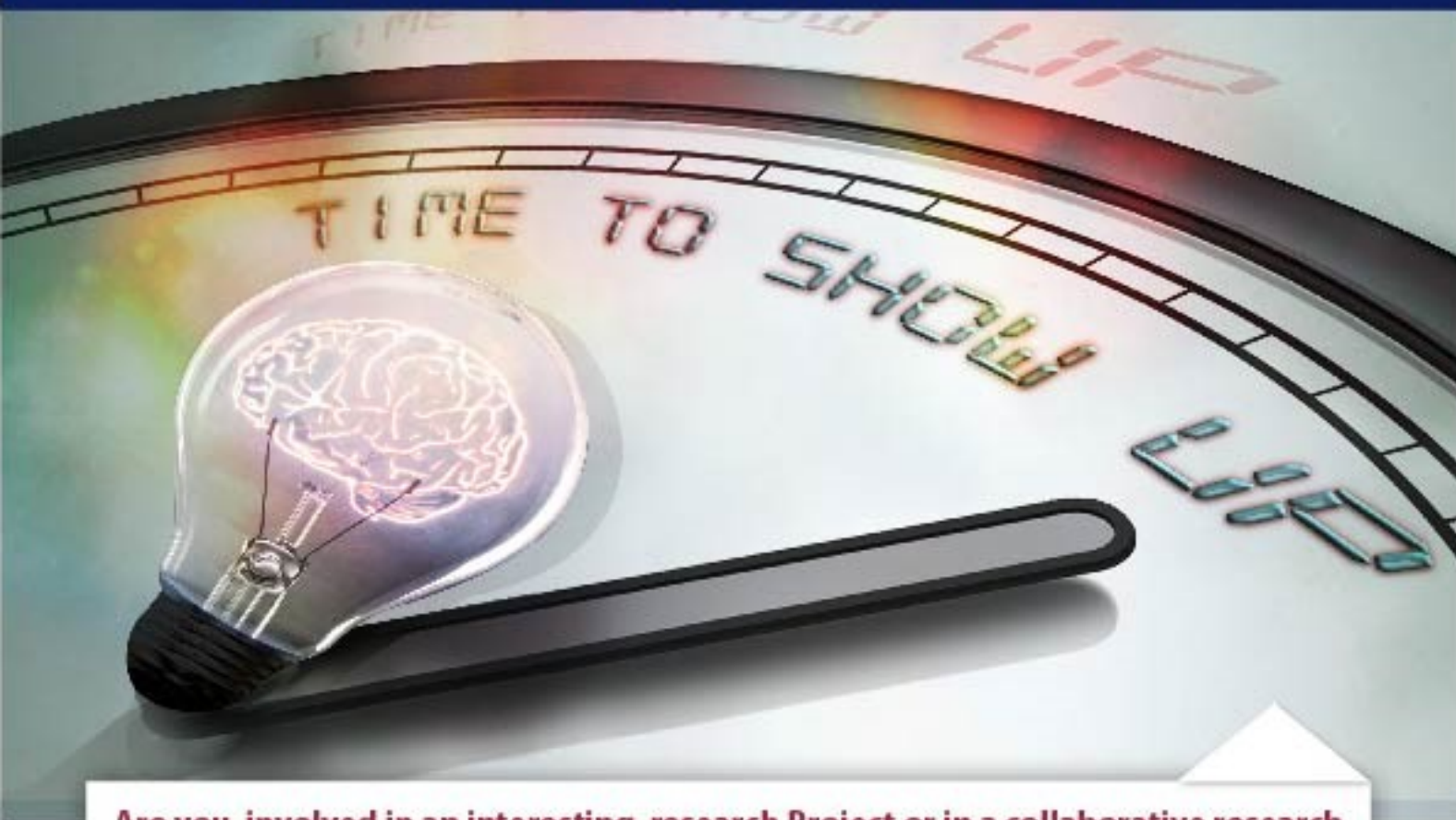
- UBT/ Deanship of scientific research **Deadline**
1st of February, 2018

For More Information:

✉ : rcc@ubt.edu.sa
DSR@ubt.edu.sa
rcc-researchservices@ubt.edu.sa
☎ : +966 (12) 2159353
+966 (12) 2159399

or Visit KACST website : <https://gpurc.kacst.edu.sa/>

DSR 3rd Research Symposium (Poster session)



Are you involved in an interesting research Project or in a collaborative research that you would like to discuss or show to your UBT colleagues ?

Why not present your work in the DSR 3rd Research Symposium (Poster session) that will be held in March at the Library Dhahban Campus .

Deanship of scientific research (DSR) welcomes you to participate in its 3rd research symposium, where the best poster from each college will be awarded and recognized on the day.

A Judging panel from UBT will select the best three posters from each college.

Instructions:


- 1 You can participate with max 3 posters
- 2 Please fill in the registration form
- 3 Use the attached Poster template
- 4 Send you PPT version to DSR Publicationservices by max 29th February



Deanship of Scientific Research
Discover, Transfer, Impact



Looking forward to meeting you there .

For any further information:  +966 (12) 2159353 - +966 (12) 2159312  RCC-Publicationservices@ubt.edu.sa



THE OUTSTANDING RESEARCH
AWARD WILL BE AWARDED TO THE
UBT INNOVATIVE RESEARCH IN
RECOGNITION TO ITS APPLICABILITY
AND CONTRIBUTION TO THE
RESEARCH FIELD

**THE RECIPIENTS OF THE AWARD
SHALL RECEIVE THE FOLLOWING
PRIZES:**

- Plaque of recognition
- Cash award of 20,000 SAR

WHO CAN APPLY ?

- Applicants who have spent more than one year at UBT and have not received this award in the last years.
- Applicants who have an innovative and creative research that has been published .
- Research in the Science and Engineering field .
- Research in the Business, administration and advertising field .

DATES TO REMEMBER

The deadline of Nomination is 1st of April , 2018 to be submitted to the Dean of scientific research, b.elzein@ubt.edu.sa
RCC@ubt.edu.sa (hard and soft copy).

The award should be announced during the commencement ceremony 2018.

WHAT IS REQUIRED?

- Nomination Application by the primary investigator (PI)
- Research Statement that represent the applicant current and scholarly activities during the last 5 years.
- Updated CV of the PI .
- Update the online Publication Database: www.ubt.edu.sa/rcc.
- Copies of published papers (under the nominated research) .
- Evidences of conference participation (presenting the nominated research) .
- Evidences of grants under UBT affiliation for the nominated research .
- Evidences of Awards under UBT affiliation for the nominated research .

FOR ANY FURTHER INFORMATION PLEASE CONTACT US
✉ L.kamal@ubt.edu.sa
m.angawi@ubt.edu.sa ☎ +966 (12) 215 9353 .

*Coming
soon*

Dhahban- CBA Prince Sultan auditorium

Senior Students, Lecturer and Junior Researcher

Certified Author Training

Publishing is an integral part of the research process. However, it is not enough to simply publish research, it needs to be published in the appropriate journals to reach the right audience and be communicated clearly to have impact in the field. Coupled with increasing competition in the academic community, researchers need to develop the right skills to be successful in publishing their

work. By doing so, researchers will not only increase their chances of publication acceptance, but also their international reputation in the field. Drawing on our breadth of experience in scholarly publishing, this Publishing Academies training workshop from Springer Nature aims to help researchers learn effective publishing strategies to achieve these goals.

Day 1: 20th of March 2018 (9:00 – 17:00)

- Publication ethics (9:00–10:15)
- Effective academic writing (10:30–12:00)
- Lunch (12:00 – 13:00)
- Manuscript structure (13:00 – 15:00)
- Improving discoverability and visibility (15:30 – 16:30)
- Day 1 summary (16:30 – 16:45)
- Final Q&A (16:45 – 17:00)

Day 2: 21st of March 2018 (9:00 – 17:00)

- Publication strategies (9:00 – 10:30)
- Editorial first decisions (10:45 – 12:00)
- Lunch (12:00 – 13:00)
- Navigating peer review (13:00–15:00)
- Promoting your published article (15:30 – 16:30)
- Final Q&A (16:30 – 17:00)

Springer Nature

Springer Nature is one of the world's leading global research, educational and professional publishers, home to an array of respected and trusted brands providing quality content through a range of innovative products and services.

Springer Nature is the world's largest academic book publisher, publisher of the world's most influential

journals and a pioneer in the field of open research. Springer Nature was formed in 2015 through the merger of Springer Science+Business Media, Nature Publishing Group, Palgrave Macmillan, and Macmillan Education.

www.springernature.com

About the trainer



Dr Jeffrey Robens is Editorial Development Manager at Springer Nature and is responsible for conducting the Publishing Academies—training workshops to improve publication output worldwide. He has strong scientific qualifications with 20 years of academic experience and numerous publications and awards. He received his PhD from the

University of Pennsylvania and then worked at premier research institutes in Singapore and Japan. Since leaving academia in 2012, he has conducted over 200 academic training workshops across Asia and the Middle East to help researchers improve their publication quality and impact.



Photonics Summer Camp



KAUST Photonics Summer Camp

1st – 31st July 2018

Photonics has revolutionized the 21st century technologies. It enables new superior tools in areas ranging from medicine to communications to clean energy, which comes with outstanding career and employment opportunities for young scientists and engineers. This one month Summer Camp is to expose the participating students to the frontiers of photonics research.

Program

The Camp comprises a core of hands-on cutting-edge research projects in various areas of modern photonics, accompanied by workshops and technical training in use of state-of-the-art nanofabrication and imaging facilities. The following research areas will be covered by leading scholars and experts:

- Semiconductor lasers and photonic integrated circuits
- Biophotonics
- Nanomaterials for photonics and energy
- Energy-conversion phenomena
- Optical communications
- Nature-inspired photonics

Benefits

KAUST will provide you with a monthly living allowance of \$1000 and academic credit. Round-trip air tickets, health insurance, accommodation, visa assistance, and access to recreational facilities will be offered free of charge.

Social Events

The Summer Camp is accompanied by a vivid social program including local activities such as snorkeling in the Red Sea, desert safari, horse and camel riding, rafting and beach BBQ. Some earlier participants have become licensed Scuba divers here.

Eligibility and Selection

Participants are selected on a competitive basis. Bachelor and Master students in Electrical Engineering, Physics, Material Science and Engineering, Optoelectronics and other related disciplines can apply. Academic grades, motivation for participation and any research experience are used as evaluation criteria. Good English skills are also required.

Visit our website to learn more and apply before 31st January 2018.

photonicscamp.kaust.edu.sa

GREAT MINDS 3 1 MINUTES 1 DAY

Apply
Now!

FALLING-WALLS.COM/
LAB/APPLY

BE PART OF THE FALLING WALLS LAB JEDDAH ON 21 SEPTEMBER 2017

Your Presentation

- Present your research project, business plan or social initiative – in just 3 minutes!
- Get involved in exciting discussions and network with fellow innovators and experts from different disciplines.

Who can apply

- We are looking for great ideas from all fields!
- Apply now if you are a Bachelor or Master student, PhD candidate, post-doc, young professional or entrepreneur.

Application deadline

- Apply online at falling-walls.com/lab/apply
- Application deadline: **15 August 2017**

The Falling Walls Lab Jeddah

- The event will take place at the **University of Business and Technology (UBT)**, Dhahban, Jeddah, Saudi Arabia
- Start: Participants will be informed about the starting time of the event.

SHARE YOUR INNOVATIVE IDEA AND WIN A TRIP TO BERLIN

A distinguished jury selects the winner who

- travels to Germany and qualifies directly for the global Lab Finale in Berlin on 8 November as one of 100 international winners (travel and accommodation are covered).
- wins a ticket for the Falling Walls Conference where leaders from science, industry and policy-making meet.

QUESTIONS?

Contact us at rcc@ubt.edu.sa

Tweet about the Lab: #FallingWalls17

The Falling Walls Lab Jeddah is hosted by the University of Business and Technology.

FALLING WALLS LAB



FALLING WALLS LAB IN JEDDAH

The Deanship of Scientific Research hosted the Falling Walls Lab on Thursday 21 September at UBT Dahban. The Lab is a platform for excellent academics, entrepreneurs and professionals from all disciplines to present their research work, business model, innovative project or idea with peers and a distinguished jury from academia and business. Each participant has a 3-minute time on stage. The most intriguing presenter qualifies directly for the Falling Walls Lab Finale in Berlin. The Falling Walls Foundation covers the accommodation for the 8-9 November in Berlin. Also, all participants of the Finale receive a ticket for the Falling Walls Conference.

There were many applications from all around the kingdom, 13 applications were accepted.

Jury members were Mr. Mohannad Dahlan, chief executive officer at UBT, Dr. Gordon McConnell head of the entrepreneurship center at KAUST, Dr.

Taghreed Alsaraj from Takamol Holding, and Dr. Emad Tayar, sales and marketing director at Talaqqi. The jury evaluated the business ideas based on originality and impact and chose the best three proposals.



The first place went to Mr. Medhat Nashar, from Yanbu University College for his invention to aid patients with paralysis. He developed a helmet that connects to the brain and allows controlling a robot to help the end-user. The product is in its primary phases, and it succeeded in moving an electronic wheelchair.

FALLING WALLS LAB



FALLING WALLS IN BERLIN

In the second place was Mrs. Asma Abdulla from The University of Jordan. She developed a formula to help promote and stimulate the effects of liquid drugs.



And finally, Ms. Roaa Hussain who developed a bracelet to be worn in catastrophes to help in triaging and search and rescue missions.



Mr. Medhat Nashar had the honors to represent Saudi Arabia at the Falling Walls Lab, Berlin, 2017. In addition, the Falling Walls Lab team in Berlin thanked the University of Business and Technology for hosting the Falling Walls Lab and thanked the jury for their efforts to put forth an amazing group of finalists.





DR. JAMAL AL AKKAD VISIT

Dr. Basma El Zein, Dean of the Scientific Research invited Dr. Jamal Al Akkad (founder and chairman of Enable Ventures C3, Dubai) to visit the University of Business and Technology and the Deanship of Scientific research. Dr. Al Akkad has a vast experience in entrepreneurship and investment, as well as being a renowned speaker.

Dr. Jamal visited UBT on Sunday 29 October and was introduced to the work of the Deanship of Scientific Research and its different departments as well as its future plans and goals. Dr. Al Akkad expressed his appreciation of the deanship's effort to serve research, industry, entrepreneurs, students,

faculty, and staff alike. "I didn't expect what I saw today," Al Akkad said, he added: **"The research roadmap is extraordinary! It's a roadmap for the nation and it should be showcased to all universities across Saudi Arabia"**.

Following his meeting with Dr. Basma and the team at the deanship, he met with Rector of UBT Prof. Osama Jannadi and toured different departments of UBT, Dahban. We are proud to note that Dr. Al Akkad's expressed his admiration by saying: **"UBT is mini-Dubai, I will seriously recommend UBT to my daughter"**.



UBT AT STARTUP SAUDI ARABIA

Under the patronage of HRH Prince Khalid Al-Faisal, Umm Al-Qura University represented by Wadi Makkah Technology Company, organized StartUp Saudi Arabia Forum on 4-6 November 2017 at the Ritz Carlton Hotel, Jeddah.

The forum included a conference, an exhibition, and seminars, as well as short presentations for investors, and was attended by more than 1600 people. The forum was a great opportunity for entrepreneurs, start-up owners, and venture capitalists for networking and taking initiatives from being start-ups into small and medium size projects. Decision makers, men of expertise, local and international companies participated in the forum sessions aiming to achieve sustainable development, in line with Vision 2030.

Sharing this exact aim is the University of Business and Technology (UBT), represented in Startup Saudi Arabia by the Deanship of Scientific Research (DSR), Entrepreneurship Unit. DSR has par-

ticipated as an exhibitor, which was an opportunity to highlight the role of UBT in supporting scientific research and entrepreneurs, contributing to the realization of Vision 2030. In addition, it was a great chance to strengthen relations with our partners from various organizations and companies. Moreover, visitors were informed about UBT colleges, Continuing Education Center (CEC) and the various services provided by the Entrepreneurship Unit for entrepreneurs in the Kingdom.

The initiatives launched by the Entrepreneurship Unit have been widely admired by various age groups interested in entrepreneurship and by professionals who have also expressed their admiration for the new and exclusive ideas of the UBT. Consequently, DSR was able to establish initial agreements with a number of organizations, companies, and businesspersons from all over the Kingdom.



WORKSHOP “UNIVERSITY FROM IDEA TO INDUSTRY”

Dr. Basma El Zein, Dean of Scientific Research, participated at StartUp Saudi Arabia, organized by Wadi Makkah, Umm Al-Qura University, by giving a workshop about taking business “From idea to industry”. The workshop took place on Saturday 4 November at the Ritz Carlton Hotel, Jeddah. The workshop was attended by around 50 people from different specializations and regions. During the workshop, President of Umm Al-Qura University, Dr. Bakri Assas toured the workshops and met Dr. El Zein and congratulated the Dean-ship of Scientific Research for supporting startups. Finally, Dr. Assas and CEO of Wadi Makkah Dr. Faisal Al-Alaf awarded Dr. Basma a plaque of recogni-

tion as an appreciation for her contribution at the event.





MODON INVITES DEANSHIP OF SCIENTIFIC RESEARCH

MODON, Jeddah arranged a visit program and invited some of the most prestigious organizations to learn more about their services. MODON is an authority that works to develop industrial cities and technology zones in Saudi Arabia. They support entrepreneurs and industries by providing land allocation services, factories access, contract services, consulting offices, contractor prequalification services, safety and security, and many other services and E-services.

The visit took place on Monday 20 November, Dr. Basma El Zein dean of scientific research and Mr. Fahad Abdel Jawad, director of industry relation at DSR were invited. Among the guests were Consultants of business development from Business Incu-

bator and Accelerator Company (BIAC), Project Specialists at the industrial sector and the General Manager of Entrepreneurial Hubs from Monsha'at. The program started with an introductory tour of the location, a documentary, and a presentation about industrial cities in Jeddah. Following, guests were taken to visit Aqwat Factory – Food Industries, and were introduced to safety measures, sterilization process, and production lines. The trip ended with a four-hour tour to Jeddah 1st Industrial City, and factories at Modon Oasis.



ACCREDITED SME CONSULTANT™ (ASMEC) WORKSHOP

The Association of Accredited Small Business Consultants® (AASBC) is the only global association on training and certification of small business and SME consultants with proprietary educational materials and practice aides explicitly designed to develop proficiency in the specialized area of small business and SME consulting. Accredited Small Business Consultants and Accredited SME Consultants have the knowledge and credibility to assist clients in improving operational efficiency leading to increased profitability and business value.

UBT, represented by Deanship of Scientific Research (DSR) and Continuing Education Center (CEC) was proud to host Prof. Richard Weinberger, Chief Executive Officer from AASBC for the first time in the Gulf region to present the ASMEC workshop.

The Accredited SME Consultant™ is a three-day workshop with a certification exam on the final day. The workshop started on Monday 4 December at the King Road Tower, Jeddah, Saudi Arabia and was attended by 17 professionals and business persons. The workshop explained the small business & SME today and gave a general financial statement review, and then elaborated on topics like ratio analysis, SWOT analysis, operational management, and strategic planning among others.

ABOUT THE TRAINER:

Dr. Weinberger has over 30 years experience as a financial and management consultant dealing exclusively with small businesses and SMEs providing a diversity of services to a wide range of clients in all

industries. He is an international speaker and has taught numerous continuing education courses for entrepreneurs and professionals. In addition to his business experience, Dr. Weinberger has been a full-time professor, adjunct professor, small business/entrepreneurial university program coordinator, prior member of the Colorado State University System Board of Governors, and a past elected school board trustee. He holds a Doctor of Philosophy degree in organization and management from Capella University, a Master of Business Administration degree in management from West Texas A&M University, a Bachelor of Business Administration degree cum laude in accounting from West Texas A&M University, and a Bachelor of Business Administration degree in marketing from The University of Texas at Austin. He is a Certified Public Accountant and has held numerous other professional certifications and designations. Dr. Weinberger serves in the capacity as the Chief Executive Officer of the Association of Accredited Small Business Consultants. He is the author of the SEMP Approach: Simplified Examination to Maximize Profit, which is the foundation of the educational training for the AASBC and, also, the author of the best-selling book, Propel Your Small Business to Success, a forward-thinking systems approach for small business owners and entrepreneurs. He is also a contributing guest expert to AllBusiness.com, one of the world's largest online resources for small businesses.

CALL FOR PARTICIPATION

DSR IN COLLABORATION WITH KAUST, ANNOUNCED TAQADAM PROGRAMME

Each year, the University Entrepreneurship Acceleration Programme - TAQADAM will choose up to thirty startup teams from universities across Saudi Arabia. These successful teams will receive up to \$20,000 each in seed grant funding as part of the program. The accelerator will also offer a mentor-led development program that includes access to office space at the KAUST Entrepreneurship Center, support from members of the KAUST international mentor group and training to help launch and scale their new ventures. The most promising startups will be eligible for additional seed funding from the KAUST Innovation Fund that will be matched by an equal amount from SABB.

Saudi universities, students, and faculty submitted their intellectual properties, class projects, or new ideas by the 11th of November 2017, and the pitch

event will take place in KAUST on 7 January 2018.

We wish all participants the best of luck.



"A startup is like trying to build a bike while riding it"

TAQADAM is a multi-university startup accelerator program delivered by KAUST to the Kingdom with sponsorship from SABB bank. The program equips entrepreneurs with the tools and support required to successfully launch a technology-based company through:



Accepted startup teams will receive up to **\$40,000** in grant funding and access to the co-working space at the KAUST Entrepreneurship Center.

UBT – Deanship of Scientific Research (DSR) are pleased to announce

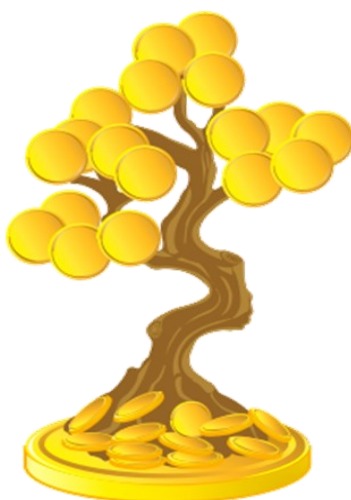
SEED FUND PROGRAM

To transfer your innovative idea to industry

The Seed Fund is a funding mechanism to transfer innovative ideas / research projects to industry by forming new businesses at UBT through the Seed Fund Office, Entrepreneurship Unit / Deanship of Scientific Research.

OBJECTIVES

- To support UBT student with an early stage fund to be future leaders.
- To build new generations of Saudi entrepreneurs and leaders.



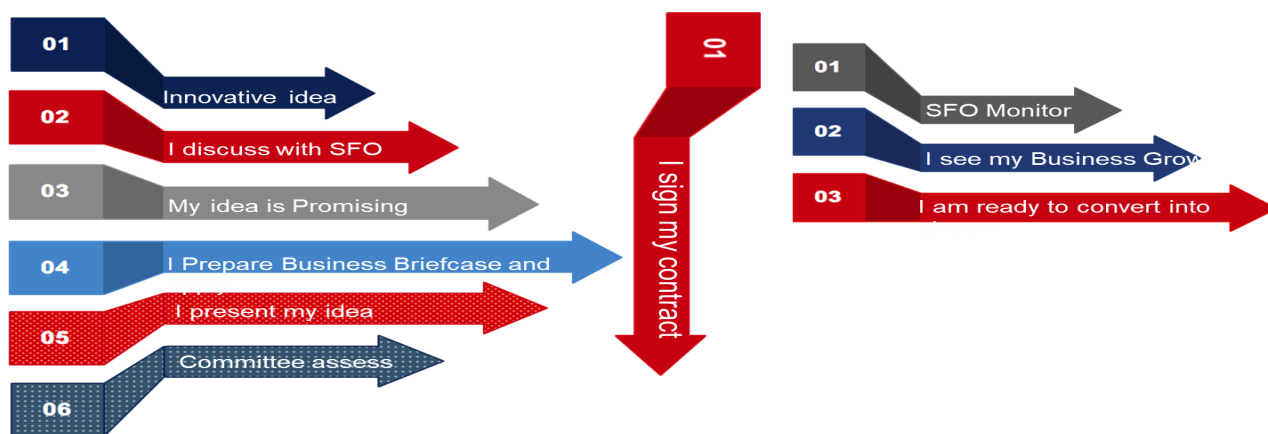
OUR SERVICES:

- Provides funds up to 20,000 SAR.
- Equipped office space to early stage startup including an access to a shared office and desk, shared meeting room and internet.
- Mentorship and advisorship to entrepreneurs within their journey in developing their own startup.

Pre-Award

Award

Post-Award



TERMS OF PARTICIPATION:

- Cross disciplinary projects involving team members from other colleges. Faculty/staff/external partners are only advisors.
- Team with a minimum of one UBT student.
- The idea or research projects must be new and innovative solving a real world problem serving vision 2030.
- The registration will be closed on 1st of February to be awarded in March.

For further information: please contact us on: DSR@ubt.edu.sa; +966122159353

2017/2018 DSR-Calendar

2017										
	September		October		November		December		January	
1	Fr		Su	Student paper	We		Fr	Call for proposal	Mo	
2	Sa		Mo		Th		Sa		Tu	Final Exams
3	Su		Tu		Fr		Su		We	
4	Mo		We		Sa		Mo		Th	Introduction to DOCEAR Workshop
5	Tu		Th		Su	KAUST deadline	Tu	ASMEC Workshop	Fr	
6	We		Fr		Mo		We		Sa	
7	Th		Sa		Tu		Th		Su	
8	Fr		Su		We		Fr		Mo	
9	Sa		Mo		Th		Sa		Tu	
10	Su		Tu		Fr		Su		We	
11	Mo		We		Sa		Mo		Th	How to create Scientific poster
12	Tu		Th		Su		Tu		Fr	
13	We		Fr		Mo		We		Sa	
14	Th		Sa		Tu		Th		Su	Spring Break
15	Fr		Su	KAUST/ topcte UBT deadline	We		Fr		Mo	
16	Sa		Mo		Th		Sa		Tu	
17	Su		Tu		Fr		Su		We	
18	Mo		We		Sa		Mo		Th	
19	Tu		Th	EndNote Workshop	Su		Tu		Fr	
20	We		Fr		Mo		We		Sa	
21	Th	Falling Walls Lab Jeddah	Sa		Tu		Th		Su	
22	Fr		Su		We		Fr		Mo	
23	Sa		Mo		Th		Sa		Tu	
24	Su		Tu		Fr		Su	Final Exams	We	
25	Mo		We		Sa		Mo		Th	
26	Tu		Th		Su		Tu		Fr	
27	We		Fr		Mo		We		Sa	
28	Th		Sa		Tu		Th		Su	
29	Fr		Su		We		Fr		Mo	
30	Sa	External fund from KACST-GPURC National Research Fund	Mo		Th	ORCID workshop	Sa		Tu	
31			Tu				Su		We	

2018										
February		March		April		May		June		
Th	KACST deadline	Th	Call for proposal	Su	Dr. Abdullah Dahlan Research Award	Tu		Fr		1
Fr		Fr		Mo		We		Sa		2
Sa		Sa		Tu		Th		Su		3
Su	TTE Week & Entrepreneurship fair	Su		We		Fr		Mo		4
Mo		Mo		Th		Sa		Tu		5
Tu		Tu		Fr		Su		We		6
We		We		Sa		Mo		Th		7
Th		Th	SPSS Workshop	Su		Tu		Fr		8
Fr		Fr		Mo		We		Sa		9
Sa		Sa		Tu		Th		Su		10
Su		Su		We		Fr		Mo		11
Mo		Mo		Th		Sa		Tu		12
Tu		Tu		Fr		Su		We		13
We		We		Sa		Mo		Th		14
Th	Research Open Day	Th		Su		Tu		Fr		15
Fr		Fr		Mo		We	Ramadan	Sa		16
Sa		Sa		Tu		Th		Su		17
Su		Su		We		Fr		Mo		18
Mo		Mo		Th		Sa		Tu		19
Tu	7 th Gulf Education Conference	Tu	Author Trainig	Fr		Su		We		20
We		We	Author Trainig	Sa		Mo		Th		21
Th		Th		Su		Tu		Fr		22
Fr		Fr		Mo		We		Sa		23
Sa		Sa		Tu		Th		Su		24
Su		Su		We		Fr		Mo		25
Mo		Mo		Th	IP DAY	Sa		Tu		26
Tu		Tu		Fr		Su		We		27
We	Research Symposium Deadline	We		Sa		Mo		Th		28
		Th	3 rd Research Symposium	Su		Tu		Fr		29
		Fr		Mo		We		Sa		30
		Sa				Th				31

UBT

جامعة الأعمال والتكنولوجيا
UNIVERSITY OF BUSINESS AND TECHNOLOGY

RESEARCH E-NEWSLETTER

VOLUME 2, ISSUE 3

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For any further information
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