



# ANNUAL REPORT

OFFICE OF RESEARCH & GRADUATE STUDIES

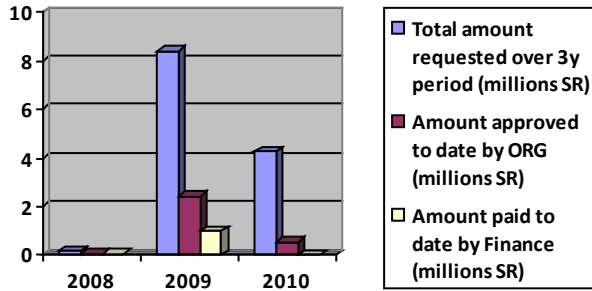
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2009-2010

# Results

## RESEARCH

### Start-Up Funding



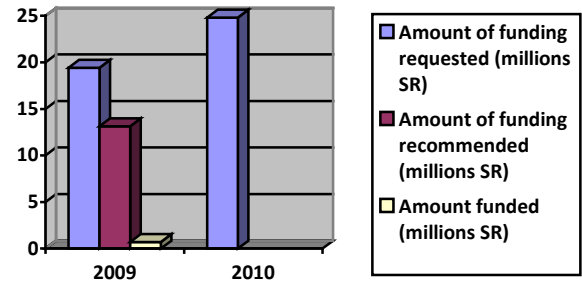
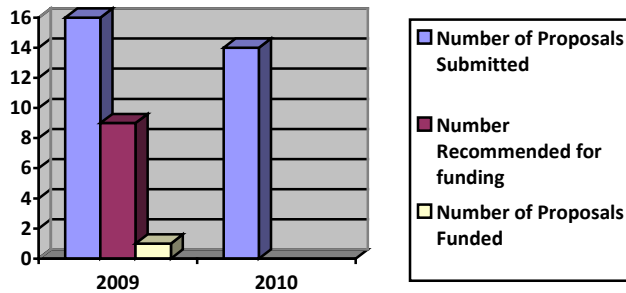
Start-Up Funding (millions SR)

	Yr	2008	2009	2010
Total Amt Requested		0.17	8.37	4.26
Amt Approved by ORG		0.03	2.41	0.54
Amt Paid by Finance		0.03	0.99	0.00

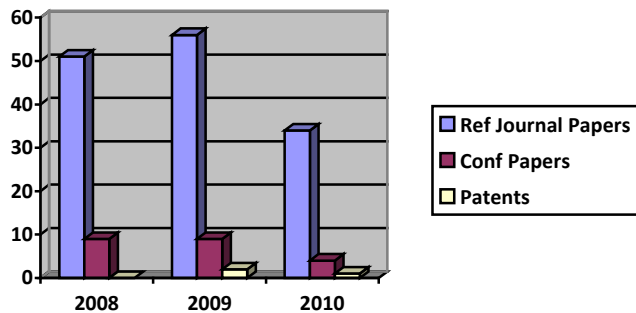
Sponsored Research Funding (millions SR)

	Yr	2008	2009	2010
Amt Requested		-	19.42	24.82
Amt Recommended by Agency		-	13.15	-
Amt Actually Funded		-	0.70	-

### Sponsored Research



### Publications



### Research Output

	Yr	2008	2009	2010
Refereed Journal Papers		50	56	38
Conference Papers		10	10	4
Patents		0	2	1
Books		1	4	3
Book Chapters		4	3	3
Invited Speaker		1	21	11
Conference Abstracts		6	11	6
Conferences Attended		1	8	2

## GRADUATE STUDIES

Graduate Programs Submitted in 2009-2010	Status
EMBA (Executive Masters of Business Administration)	Final stages of MoHE approval
MSc & PhD in Biomedical Sciences	Review by MoHE
MSc in Genetic Counseling	Review by UCU then to MoHE
MSc in Radiological & Imaging Sciences	Review by UCU then to MoHE
MSc & PhD in Energy & Environmental Engineering	Needs BOT approval, then to UCU & MoHE

# Executive Summary

This report outlines the achievements as well as the challenges facing the development of research and graduate studies at Alfaisal University. We will show that while we have a very productive and talented academic research team, a major shortcoming facing us is the need to deliver on actual research funding, from both internal and external sources, to our faculty members.

The mission of the Office of Research & Graduate Studies is to support multi-disciplinary research and graduate programs of faculty and students by enhancing the environment for creative scholarly work with the highest levels of quality and integrity, and that stimulate the development of a knowledge-based society.

Over the past two years faculty members have requested a total of 12.8 million SR in internal Start-up Funding to support the initiation of their research at Alfaisal University; from this total, 2.97 million SR has been approved by the Office of Research & Graduate Studies and 1.02 million SR has been paid out by the Finance Department. A foremost area for concern is that actual Start up funding paid out has not kept pace with funding approved. We can argue that this will hamper the recruitment and retention of research oriented faculty, and will indirectly affected the University's vision and mission to become a research institution.

The dilemma is repeated in the area of sponsored research. A total of 30 research proposals have been prepared and submitted by Alfaisal faculty members over the past two years. Total funding requested was 44.24 million SR. Currently only one proposal has been funded for 0.7 million SR; eight proposals that were submitted as part of the KACST Advanced & Strategic Science & Technology competition were either recommended or highly recommended for funding in the amount of 13.15 million SR; three were turned down and seventeen are still under review. We are still waiting for actual funding of the approved projects. Based on information from KACST, which administers the S&T grant competition, there is an apparent bottleneck in terms of available government funding and approval of the next 5 year Science & Technology Plan. Similar to the internal Start-up funding, this external funding predicament is also hampering Alfaisal University's ability to achieve its vision and mission statements. Furthermore, we can also speculate that this will also make it more difficult to hire and retain research faculty members, as well as making it more difficult to start up and run our graduate programs which are currently with MoHE (Ministry of Higher Education) for final approval.

It is encouraging to be able to report that Alfaisal University faculty members have had a very prolific publication output with 50 and 56 refereed journal papers in 2008 and 2009, respectively and already 38 papers for the first half of 2010. In addition, there were 2 patent applications in 2009 and one in 2010, and 8 books in the last 3 years. Congratulations to everyone on a job well done!

The Research Policies & Procedures document has been updated. The second edition can be found on the Alfaisal Web site. Furthermore, an electronic research database & management system has been developed to keep track of pre-award research proposals and post award funded projects. In addition, as part of our effort to provide better service to faculty, staff, students and the general public, the Office of Research & Graduate Studies website is in the process of being redesigned and updated.

Now in its second year, the Research Colloquium had 16 speakers from both internal and external sources over the past 10 months. The aims of this seminar series include: sharing research areas of interest; facilitating research outreach via face to face meetings with government, industry and the private sector; and promoting research collaboration and initiatives within Alfaisal, KSA, the region and the world.

In an effort to enhance research collaboration between KACST-NRERI (Natural Resources & Environmental Research Institute) and Alfaisal University, a successful monthly seminar series was held with the venue alternating between the two institutions. Next year it is planned to further improve the interaction by the creation of focus groups in strategic research areas of interest to both parties. The NRERI also hosted several of our undergraduate medical students for summer training in their biotechnology laboratory. Furthermore, four Alfaisal medical students were selected and spent four weeks at the King Faisal Specialist Hospital & Research Center (KFSHRC) in a Stem Cell Therapy Laboratory. Training in medical research laboratories is an essential part in the development of undergraduate students who will eventually become medical doctors

Students from the Colleges of Medicine, Engineering & Business, were invited to present their research activities/proposals/future programs through posters in the presence of faculty members, students and the public, at an event held on Wednesday 28 April 2010 in the Alfaisal University Campus. The VP for Research and Graduate studies opened the proceedings with a key note speech. The winning posters were announced at the awarding ceremony, where the Acting Provost handed over certificates to all participating authors & trophies to the winners.

The Office of Research and Graduate Studies was also busy in developing research partnerships with industry. Alfaisal University is actively seeking such collaboration and is pleased to work with a world renowned multinational company such as Raytheon, in strategic priority areas of mutual interest including, for example the establishment of a *Technology Innovation Center* at Alfaisal University. In addition, the Vice President for Research & Graduate Studies signed a Memorandum of Understanding with the Chief Executive Officer of Fraport, Saudi Arabia for Airport Management and Development Services Company Ltd. The common goals of the participating parties are to support training and technological collaboration and to benefit from each others' capabilities. Furthermore, training courses have been proposed for the Saline Water Conversion Corporation (SWCC) staff to be run in English by Alfaisal University faculty as well as desalination experts from outside the country. Finally, a draft proposal was prepared describing the "Mechanisms for Collaboration between the BOEING Company and Alfaisal University". The Company is interested in promoting research and education.

At the graduate level, a total of five programs have been proposed at both the master's and doctoral levels. The proposed programs, which are in various stages of MOHE (Ministry of Higher Education) approval, include EMBA (Executive Masters of Business Administration, MSc & PhD in Biomedical Sciences, MSc in Genetic Counseling, MSc in Radiological & Imaging Sciences, and MSc & PhD in Energy & Environmental Engineering. It is hoped that several of these programs will be approved and running shortly. In addition, the Office of Research & Graduate Studies has prepared a Graduate Policies and Procedures document for students faculty and staff to help define their responsibilities and to explain the policies and procedures that govern graduate study at Alfaisal University.

The Office of Research and Graduate Studies would like to offer a special thanks to all faculty members, administrators and support staff who took part in and assisted in the

submission of sponsored research proposals to outside agencies, for their prolific publication record as well as for taking part in and facilitating the Research Colloquium and the Student Research Day Poster Competition. Many thanks to all for a job well done!

In closing, the results have shown that the University has a very talented and productive academic team as shown by the submission of numerous research proposal applications, the highly recommended ratings that many of these have received from external reviewers, the multitude of scientific publications, the upcoming graduate programs, the excellent achievements of our students in the poster competition, and the strong interaction with industry and outside research institutions. However, it is important to point out that a major area of concern is the deficiency in research funding actually received by our faculty members both from both internal and external sources. We can argue that unless we can improve this situation (i.e. more actual research funding received) then the University (i.e. the College Dean's) will need to be more realistic in their recruitment promises to potential new faculty (e.g. do not promise start up funding that we cannot deliver on). Furthermore, unless the recommended sponsored research funding comes through then the institution may need to rethink its vision and mission statements. These are the major research challenges facing us over the next couple of years.

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# 1. Vision & Mission Statements

## Our Vision

The Office of Research and Graduate Studies facilitates research and graduate studies at Alfaisal University enabling it to be a leading regional institution that benefits society and that helps to sustain a knowledge-based economy.

## Our Mission

Our mission is to support multi-disciplinary research and graduate programs of faculty and students by enhancing the environment for creative scholarly work with the highest levels of quality and integrity, and that stimulate the development of a knowledge-based society.

Specific goals for the Office are:

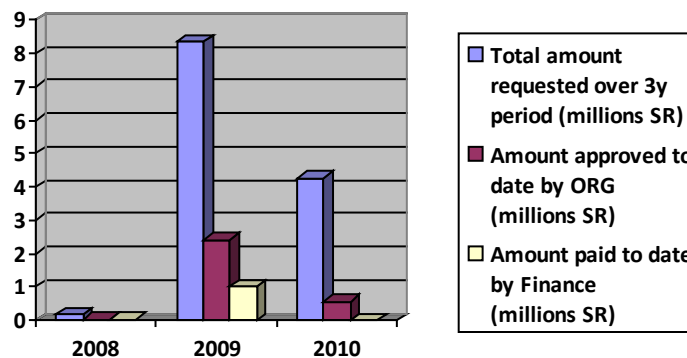
- Developing an infrastructure and culture that encourages, supports and recognizes research excellence and promotes the involvement of both undergraduate and graduate students in order to assist Alfaisal to become a leading institution that benefits society in the region.
- Establishing effective sustainable research sponsored programs to allow the University to grow and to fulfill its strategic goals.
- Institutionalizing ethical standards and guidelines for all Alfaisal faculty, staff and students to ensure the highest levels of integrity and compliance.
- Developing and encouraging the creation of interdisciplinary research and graduate programs, centers of excellence and research chairs to aid Alfaisal to become a hub of distinction.
- Facilitating commercialization of research outcomes in order to help the country to diversify its economy.

## 2. Research

### 2.1. Funding

#### 2.1.1. Start-up Funding

Over the past two years new faculty members have requested a total of 12.8 million SR in Start-up Funding to support the initiation of their research at Alfaisal University (Figure1, Tables 1 & 2). From this total, 2.97 million has been approved by the Office of Research & Graduate Studies (ORG) and 1.02 million SR has been paid out by the Finance Department. A major area for concern is that actual Start up funding paid out has not kept pace with funding approved. We can argue that this will hamper the recruitment and retention of research oriented faculty, and will indirectly affected the University's vision and mission to become a research institution. Start-up funding is awarded to new faculty as part of the recruitment process and is used to help initiate their research programs in accordance with research fields and priorities set forth by the University. Start-up funding requests are prepared by new faculty applicants in coordination with the College Dean and Vice President for Research & Graduate Studies.



**Figure 1:** Start-Up Funding Requested, Approved and Paid

**Table 1.** Start-Up Funding (millions SR)

	Yr	2008	2009	2010
Total Amt Requested		0.17	8.37	4.26
Amt Approved by ORG		0.03	2.41	0.54
Amt Paid by Finance		0.03	0.99	0.00



**Table 2: Start-up Funding Projects at Alfaisal University 2008-2010**

Name/College	Project No.**	Project Title	Start Date d/m/y	Tot Amt Rqstd over 3y (SR)	Approv to date by ORG (SR)	Paid to date by Finance (SR)
<b>2010</b>						
Abdulmajeed Mohamad/Eng	201131503101	Trough Solar Collector Analysis and Construction for Water Desalinations Application	03/04/2010	937,500	7,300	0
Yogi Erlangga/Sci	425050304101	Acceleration of iterative methods via subspace correction	03/04/2010	695,503	18,000	0
Zhao Yong/Eng	226250304102	Parallel Unstructured LBM with Fluid-Structure Interaction for Challenging Engineering and Bio-mechanic Applications	03/04/2010	1,525,980	7,300	0
Tianzheng Yu/Med	320252403101	Role of mitochondrial fission in apoptosis	24/03/2010	749,060	110,000	0
Edreese Alsharaaeh/ Sci	405010901101	Synthesis and Characterization of Polymers and copolymers from Olefin Vapors Using Nanocatalyst	09/01/2010	900,000	393,033	0
<b>Subtotal</b>				<b>4,264,043</b>	<b>535,633</b>	<b>0</b>
<b>2009</b>						
Hisham Abad/Sci	408010811091	Common Research Laboratory Facility Proposal for Colleges of Medicine & Science & General Studies	11/11/2009	630,000	630,000	0
Abdallah Shami/Eng	201190911091	Hybrid Broadband Access Network	09/11/2009	1,040,025	3,243	3,243
Ali Khraibi/Med	301110811091	Common Research Laboratory Facility Proposal for Colleges of Medicine & Science & General Studies	08/11/2009	780,750	228,308	43,438
Bernhard Juurlink/Med	302100811091	Common Research Laboratory Facility Proposal for Colleges of Medicine & Science & General Studies	08/11/2009	720,000	192,000	0
Paul Ganguly/Med	316070811091	Common Research Laboratory Facility Proposal for Colleges of Medicine & Science & General Studies	08/11/2009	882,000	371,325	0
Jalal Karam/Sci	410111410091	Identifying Wavelets for Recognition and Compression Purposes	20/10/2009	112,500	20,199	11,249
Hazbo Skoko/Bus	108190510091	Information Communication Technology (ICT) adaption models in KSA's SMEs	05/10/2009	168,750	23,513	23,513
Ahmed Yaqinuddin/ Med	301250108091	Using Micro-RNAs as Biomarkers for Diagnosing and Monitoring Progression of reast Cancers	01/08/2009	512,374	0	0
Rehan Ahmed/Eng	218013006091	Surface Engineering for Next Generation of Aerospace, Energy, and Biomedical Applications	30/06/2009	2,032,500	839,886	839,886
Norman Wright/Bus	114232601091	Cross Cultural Teamwork: Processes & Outcomes	26/01/2009	168,750	29,148	2,096
Jim Roach*/Sci	410182401091	Use of Colloidal System in Water Treatment & Enhanced Oil Recovery	24/01/2009	931,500	0	0
Simon Hull/Sci	419082401092	The Familiar Essay and Romantic Consumerism	24/01/2009	112,500	14,280	14,280
Robert McColl*/Sci	418132401093	Research, Teaching and Conference Funds for English	24/01/2009	112,500	?	?
Richard Arnold/Sci	418012001091	Bad Eminence (a novel/screenplay): Trinity of Discord (Book)	20/01/2009	168,750	53,531	53,531
<b>Subtotal</b>				<b>8,372,899</b>	<b>2,405,433</b>	<b>991,236</b>
<b>2008</b>						
Norman Swazo/Sci	414192408081	Biomedical Ethics	24/08/2008	168,750	24,897	24,897
<b>Subtotal</b>				<b>168,750</b>	<b>24,897</b>	<b>24,897</b>
<b>GRAND TOTAL</b>				<b>12,805,692</b>	<b>2,965,963</b>	<b>1,016,132</b>

\*Left Alfaisal University

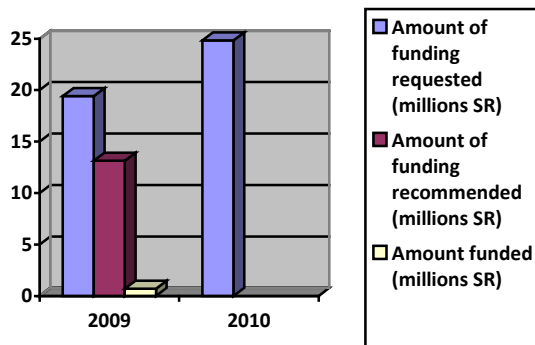
\*\*Start up Project Number consists of a 12 digits code as follows:

(X) (XX) (XX) (XX) (XX) (XX) (X)  
 College First Name Last Name Day Month Year Number of proposal for the day

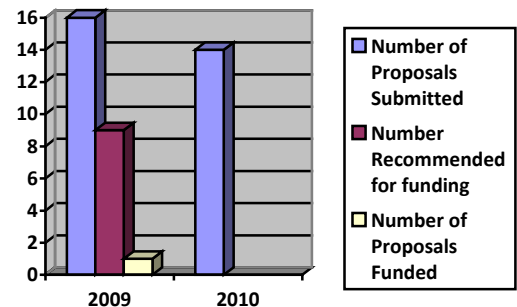
## 2.1.2. Sponsored Research

A total of 30 research proposals have been prepared and submitted by Alfaisal faculty members over the past two years (Figures 2 & 3, Tables 3 & 4) (i.e. from January 2009 to March 2010). Total funding requested was 44.24 million SR. Currently only one proposal has been funded; *Entrepreneurship Survey in Saudi Arabia* (GEM) for 0.7 million SR with M. Alodan as PI. Eight proposals that were submitted as part of the KACST Advanced & Strategic Science & Technology competition were either recommended or highly recommended for funding in the amount of 13.15 million SR; three were turned down and seventeen are still under review.

We are still waiting for actual funding of the approved projects. Based on information from KACST, which administers the S&T grant competition, there is an apparent bottleneck in terms of available government funding and approval of the next 5 year Science & Technology Plan. Similar to the internal Start-up funding problem, this external funding dilemma is also hampering Alfaisal University's ability to achieve its vision and mission statements. Furthermore, we can argue that this will also make it more difficult to hire and retain research faculty members, as well as making it more difficult to start up and run our graduate programs which are currently with MoHE (Ministry of Higher Education) for final approval.



**Figure 2.** Amount of Sponsored Research Funding Requested, Recommended by Funding Agency, and Actually Funded



**Figure 3.** Number of External Research Proposals Submitted, Recommended by Agency, and Actually Funded

**Table 3.** Sponsored Research Funding (millions SR)

	Yr	2008	2009	2010
Amt Requested		-	19.42	24.82
Amt Recommended by Agency		-	13.15	-
Amt Actually Funded		-	0.70	-

**Table 4: Research Proposals for External Funding Submitted by Alfaisal University Faculty Members 2009/10**

PI	Proposal Code	Proposed Project Title	Amt Req SR	Prg/ Strat Area	Status*	Paid to date SR
<b>2010</b>						
Zhao Yong	10-ENE1133-44	Advanced study of aerodynamics & fluid-structure interaction of wind turbines	2,019,750	ST/Energy	IP	
Rehan Ahmed	10-ADV1128-44	Acoustic Emission Monitoring of Thermal Spray Coatings for Orthopedic Implant & Man. Appl.	1,784,000	ST/Adv Mat	IP	
AbdulmajMohamad	10-NAN1124-44	Effect of Temp Gradient on Pressure Driven Water Flow in Single-Walled Carbon Nanotubes	1,032,000	ST/ Nanotech	IP	
Edreese Alsharaeh	10-NAN1127-44	Synthesis and characterization of polymer nanocomposites via gas phase polymerization	1,690,000	ST/ Nanotech	IP	
Ahmed Yaqinuddin	10-BIO1132-44	Using Micro-RNAs as Biomarkers for Diagnosing Prostate Cancers	1,669,375	ST/Biotech	IP	
Ali Amin Khraibi	10-BIO1131-44	Role of Relaxin and Nitric Oxide (NO) in Renal Adaptations During Pregnancy	1,884,000	ST/ Biotech	IP	
Tianzheng Yu	10-BIO1129-44	Mitochondrial Fission and Pancreatic $\beta$ -Cell Apoptosis in Type 2 Diabetes	1,834,000	ST/Biotech	IP	
Ali Amin Khraibi	10-BIO1130-44	Role of omega 6 fatty acid, arachidonic acid metabolites & antioxidant substances in prod. of ..	2,064,000	ST/Biotech	IP	
Hazbo Skoko	10-INF1125-44	Enhancing Urban Competitiveness through Strat Mangmt with Emphasis on E-gov & ICT	1,904,000	ST/ IT	IP	
Abdallah Shami	10-INF1126-44	Integrated Broadband Access Networks	1,531,000	ST/ IT	IP	
Jalal Karam	10-MAT1123-44	A Theoretical and Experimental Investigation of Speech Production and Hearing via Wavelets	1,976,000	ST/ Math&Phys	IP	
Yogi Erlangga	10-MAT1122-44	Multilevel methods for saddle point problems in fluid flows & seismic imaging with PDE constrained opt	1,959,150	ST/ Math&Phys	IP	
Hazbo Skoko	ARP-	Understanding Informal Contractual Relationships: Psych Contracts Est by Academics	1,058,600	AGP	IP	
Thomas Butler	ARP-30-344	Countering Antimicrobial Drug Resist. in Communicable Dis By Testing New Extracts from Plnt	2,416,000	AGP	IP	
<b>Subtotal</b>			<b>24,821,875</b>			
<b>2009--</b>						
Maher Alodan	-	Entrepreneurship Survey in Saudi Arabia	700,000	GEM	F	700,000
Ali Khraibi	09-MED637-44	Renal and Cardiovascular Adaptations to Hypertensive Pregnancy	2,426,000	ST/ Biotech	R	0
Bernhard Juurlink	09-MED636-44	Phase two Protein Induction sirt1 and Gluconeogenesis	1,088,525	ST/Biotech	HR	0
Paul Ganguly	09-MED638-44	Role of Brain Amino Acids: Acids Function in Hyperhomocysteinemic	777,000	ST/Biotech	R	0
Hisham Abad	09-ENV639-44	Black Carbon sequestration in the Agricultural System of Saudi Arabia	1,898,000	ST/ Environ	NR	-
Paul Ganguly	09-BIO811-44	Preventing Cardiovascular Disease: Using Nutraceuticals as Nutritional Interventions	1,971,300	ST/Biotech	HR	0
Abdallah Shami	09-INF814-44	Modeling and Optimization of Concurrent Multipath Transfer over Wireless Links	1,179,000	ST/ IT	R	0
Hazbo Skoko	09-INF815-44	Dev & Evaluation of ICT Models of Adoption & Use in Saudi Arabian SMEs	1,718,000	ST/ IT	R	0
Tianzheng Yu	09-BIO813-44	Mitochondrial Dynamics in Diabetic Nephropathy	1,966,400	ST/ Biotech	HR	0
Ahmed Yaqinuddin	09-BIO812-44	Identification of diagn & progn markers for bladder cancer through whole genome methylation	1,320,125	ST/ Biotech	HR	0
Roach (Alsharaeh)	-	Dev of Surf-based tech for mitigation of scale formation & augmentations of ht transfer in sw...	1,029,200	KACSTInt/Water	IP	-
Mattheus Goosen	-	Brackish water solar desalination units for remote arid regions	1,977,800	KACSTInt/Water	IP	-
Bernhard Juurlink	-	Surface Modif of Ti for Enhanced Bone Growth & Tissue Adhesion in Orthopedic & Dental Appl	1,368,625	CEREM/Adv Mat	IP	-
Alex Kouzmenko	-	Dev Strat in Regenerative Therapies: Role of Nuclear Hormone Receptors in Reg of Adult Stem	-	PSCDR	IP	-
Maher Alodan	-	Proposal (LOI) for a Technology Innovation Center (TIC) for Advanced Materials in Ren Energy	-	KACST/TIC	NR	0
Abdallah Shami	-	Proposal (LOI) for a Technology Innovation Center (TIC) in Aerospace Engineering	-	KACST/TIC	NR	0
<b>Subtotal</b>			<b>19,419,975</b>	<b>700,000</b>		
<b>GRAND TOTAL</b>			<b>44,241,850</b>	<b>700,000</b>		

\*HR highly recommended; R recommended; NR not recommended; IP in progress; F funded

### 2.1.3. Electronic Management of Research Proposals & Projects

An electronic research database & management system (eRA) has been developed to keep track of pre-award research proposals and post award funded projects. (See example in [Appendix A](#))

## 2.2. Publications

It is a pleasure to report that Alfaisal University 's 25 faculty members have had a very prolific publication output with 50 and 56 refereed journal papers in 2008 and 2009, respectively and already 38 papers for the first half of 2010. In addition there were 2 patent applications in 2009 and one in 2010, and 8 books in the last 3 years (see [Figures 4-6](#), [Table 5](#) and [Appendix B](#)). Congratulations to all on a job well done!

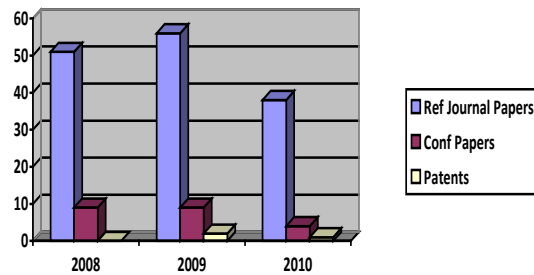


Figure 4. Journal and Conference Papers and Patents



Figure 5. Books and Book Chapters

Table 5. Research Output

Yr	2008	2009	2010
Refereed Journal Papers	50	56	38
Conference Papers	10	10	4
Patents	0	2	1
Books	1	4	3
Book Chapters	4	3	3
Invited Speaker	1	21	11
Conference Abstracts	6	11	6
Conferences Attended	1	8	2

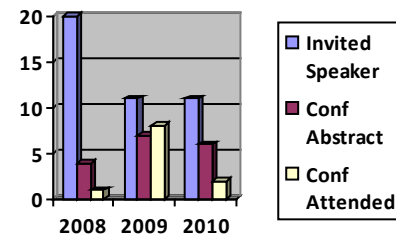


Figure 6. Invited Speaker, and Conference Abstracts & Attendance

## 2.3. Research Policies & Procedures

Research Policies & Procedures have been updated. The second edition can be found on the Alfaisal Web site ([policies and procedures](#))

## 2.4. Research Colloquium

Now in its second year, the Research Colloquium had 16 speakers from both internal and external sources over the past 10 months. The aims of the lecture series include: sharing research areas of interest; facilitating research outreach via face to face meetings with government, industry and private sectors; and promoting research collaboration and initiatives within Alfaisal, KSA, the Region and the World. The Colloquium takes place on Campus on alternate Wednesdays ([Table 6](#)).

**Table 6.** Research Colloquium Schedule for 2009-2010.

DATE	TITLE	SPEAKER
14 Oct	Control systems, satellites systems and incubation and entrepreneurship.	Mohammed Al Majed - KACST
28 Oct	Mitochondrial dynamics and reactive oxygen species in diabetes	Dr. Tianzheng Yu Associate Prof of Physiology, COM Alfaisal Univ.
11 Nov	SABIC Global Technology and Innovation	Fahad Al-Sherehy-SABIC
9 Dec	Rage, rage against the dying of the light	Bernhard H.J. Juurlink Prof Anatomy & Cell Biology, CoM, Alfaisal Univ
23 Dec	Why do we have more diabetes? A gold mine for research	Dr.Khalid Al-Rubeaan - KSU
6 Jan	Crosstalk between estrogen & Wnt/APC signaling: potential role in protective action of estrogen in colon	Dr Alexander Kouzmenko. Prof Biology, CoSc, Alfaisal University
20 Jan	Biological Explanation for the Adaptive Response "Memory" against Stress and Disease: Lessons Learned from the Heart	Dr. Anwar Abdulfatah Professor of Physiology College of Medicine, Alfaisal University
24 Feb	The Future of Solar Energy	Dr. Abdulmajeed Mohammad – Prof Mech Eng College of Engineering, Alfaisal University
10 Mar	The Euro as a Role Model for Regional Monetary Cooperation in South America, South East Asia and the Gulf	Miguel Otero-Iglesias-PhD Candidate in International Political Economy, Oxford Brookes University , United Kingdom
24 Mar	The role of RNA binding proteins, tristetraprolin and HuR in cancer	Dr.Khalid S.Abo Khabar Director ,Bimolecular Research Program , Head interferon &cytokine Research Unit, KFSHRC
7 Apr	Cross-layer Optimization for Packet Transmission over Wireless Fading Channel	Abdullah Alshami ,College of Engineering
14 Apr	Overview of KFSH&RC Biomedical Physics Activities	Belal Mofteh, PhD, FCCPM ,Chairman, Biomedical Physics Department KFSHRC
5 May	The Convergence of Renewable Energy, Mass Storage and Water Purification Technologies for Remote Locations	Frank Prautzsch, Raytheon Company, USA
12 May	Tribology of Surface Coatings: The Science of improving the Quality of Life through Durable Engineering	Dr. Rehan Ahmad Professor Mechanical Engineering
26 May	Translational Research	Dr. Hasan Rajab Assoc Prof & Consult of Surgery, CoM, Alf Un.
9 June	Laser Research at KFUPM	Dr. Zain Yamani, CENT Director KFUPM-Dhahran

## 2.5. Student Research Day Poster Competition

Students from the Colleges of Medicine, Engineering & Business, were invited to present their research activities/proposals/future programs through posters in the presence of faculty members, students and the public, at an event held on Wednesday 28 April 2010 in the Alfaisal University Campus. Dr. Maher Alodan, VP for Research and Graduate studies opened the proceedings with a key note speech in which he stated, 'this event today is one of the first for Alfaisal University, and judging from our students and faculty response it just strengthens the view that research is indeed one of the missions of Alfaisal University'. The winning posters were announced at the awarding ceremony, where Acting Provost; Ronald Bulbulian handed over certificates to all participating authors & trophies to the winners (Figures 7-9).



**Figure 7.** Karam Hamweyah , Mohammed Diya Sabbagh, Bakir Swaid, and Abdulaziz Alkattan, from the College of Medicine were awarded first place in the competition for their poster entitled '[Persistent Bilateral sciatic artery: a rare discovery at the Alfaisal University](#)'.



**Figure 8.** In second place: Ziad El-Sawah from the College of Engineering; for a poster entitled '[Launching Spacecrafts Using Electrostatic Force](#)'.





**Figure 9.** In third place Afsan Bin Farid, Amr Jijakli, Hassan Mandeel, and Sultan Bahatheq, from the College of Medicine for a poster entitled; '[Winning Against Antibiotic Drug Resistance](#)'.

## 2.6. Faculty

The Office of Research and Graduate Studies would like to offer a special thanks to all faculty members, administrators and support staff who took part in and assisted in the submission of sponsored research proposals to outside agencies, for their prolific publication record as well as for taking part in and facilitating the Research Colloquium and the Student Research Day Poster Competition ([Table 7](#)). Congratulations on a job well done!

**Table 7.** Faculty List

<p><b><a href="#">Dr. Ronald Bulbulian</a></b> Vice Provost for Academic Affairs Acting Provost, Acting Dean for College of Science &amp; General Studies</p>	<p><b><a href="#">Dr. Khaled Al Kattan</a></b> Dean &amp; Professor of Surgery College of Medicine Acting Vice President for Advancement</p>
<p><b><a href="#">Dr. Maher Alodan</a></b> Vice President for Research &amp; Graduate Studies Acting Dean, College of Engineering</p>	<p><b><a href="#">Dr. Ala A. Al Bakri</a></b> Professor &amp; Vice Provost for Accreditation and Quality Assurance</p>
<p><b><a href="#">Dr. Norman Wright</a></b> Professor of Management Acting Dean College of Business</p>	<p><b><a href="#">Dr. Mattheus (Theo) F. A. Goosen</a></b> Associate Vice President for Research &amp; Graduate Studies</p>
<p><b><a href="#">Dr. Dennis P. Greer</a></b> Professor of Accounting and Management Information Systems College of Business</p>	<p><b><a href="#">Dr. Bernhard H. J. Juurlink</a></b> Professor of Anatomy &amp; Cell Biology College of Medicine</p>
<p><b><a href="#">Dr. Hazbo Skoko</a></b> Assistant Professor of Economics &amp; Finance College of Business</p>	<p><b><a href="#">Dr. Pallab (Paul) K. Ganguly</a></b> Professor of Anatomy College of Medicine</p>

<b><u>Dr. Alexander Kouzmenko</u></b> Professor of Molecular Biology College of Science and General Studies	<b><u>Dr. Ali A. Khraibi</u></b> Professor of Physiology College of Medicine
<b><u>Dr. Hisham H. Abad</u></b> Professor of Physics College of Science and General Studies	<b><u>Dr. Mohammad Hasan Rajab</u></b> Assoc. Prof. of Biostatistics, Epidemiology, Community & Public Health College of Medicine
<b><u>Dr. Norman K. Swazo</u></b> Professor of Philosophy and Biomedical Ethics College of Science & General Studies	<b><u>Dr. Tianzheng Yu</u></b> Associate professor of Physiology College of Medicine
	<b><u>Dr. Ahmed Yaqinuddin</u></b> Assistant Professor of Anatomy & Cell biology College of Medicine
<b><u>Dr. Simon Hull</u></b> Assistant Professor of English Literature College of Science and General Studies	<b><u>Dr. Richard Alexander Arnold</u></b> Professor of English, Director of English Studies College of Science and General Studies
<b><u>Dr. Edreese H. Alsharaeh</u></b> Assistant Professor of Chemistry College of Science and General Studies	<b><u>Dr. Jalal Karam</u></b> Associate Professor of Mathematics College of Science and General Studies
<b><u>Dr. Yogi Ahmad Erlangga</u></b> Assist. Professor of Mathematics College of Science and General Studies	Dr.Abdulmajeed Mohamad Professor of Mechanical Engineering College of Engineering
<b><u>Dr. Zhao Yong</u></b> Associate Professor of Mechanical Engineering College of Engineering	<b><u>Khalid Walid Haj Ahmed</u></b> Principal Instructor, College of Engineering
<b><u>Dr. Abdullah Shami</u></b> Associate Professor of Electrical Engineering College of Engineering	<b><u>Kaushik Parmar</u></b> Instructor College of Engineering
<b><u>Kaleem Mahmood</u></b> Principal Instructor College of Engineering	<b><u>Shahnawaz Ahmed</u></b> Instructor College of Engineering
<b><u>Ahmad Ali</u></b> Instructor College of Engineering	<b><u>Mohammed Jameeluddin</u></b> Instructor College of Engineering
<b><u>Muhammad Hammad Akmal</u></b> Instructor College of Engineering	<b><u>Muhammed Furkan Uzar</u></b> Instructor College of Engineering

## 2.7. Research Partnerships

### 2.7.1. Raytheon

The University and Raytheon believe that collaboration is crucial in achieving the Kingdom's Vision to obtain the scientific and technical knowledge needed for the country to achieve a better quality of life and to allow for sustained development through diversification. Alfaisal University is actively seeking such collaboration and is pleased to work with a world renowned company such as Raytheon in strategic priority areas of mutual



interest including, for example the establishment of a *Technology Innovation Center* at Alfaisal University. The areas of collaboration are focused on renewable energy and advanced materials in order to enable such sectors. There are different mechanisms of collaboration such as Technology Innovation Centers (TIC), joint workshops, R&D projects and staff training.

Raytheon is a large, multinational company with expertise in technology & industrial innovation, systems engineering & integration, training and total-life solutions that ensure No-Doubt™ performance, among other areas. Raytheon desires to continue to expand the mutually beneficial relationship it enjoys with the Kingdom of Saudi Arabia, to participate in the growing economy of the region, and to establish effective channels to serve the rapidly growing markets in Saudi Arabia and the surrounding region.

### **2.7.2. Fraport**

Vice President for Research & Graduate Studies signed a Memorandum of Understanding with Chief Executive Officer, Fraport, Saudi Arabia for Airport Management and Development Services Company Ltd. In 2009. The common goals of the participating parties are to support training and technological collaboration and to benefit from each others' capabilities. Both parties will facilitate having guest lecturers from the Company at the University, allowing graduate student exchange projects, training of Company staff, having Company input on Alfaisal undergraduate curriculum, and having student internships at the Company. Ralph Schiffer, CEO, stated that it is important for "industry and educational institutions to work closely together to facilitate the country's progress" and looks forward to the "huge benefit this agreement will bring to both parties".

Fraport Saudi Arabia (FSA) is responsible for airport management and development of King Khalid International Airport, Riyadh and King Abdulaziz International Airport, Jeddah. FSA holds contracts with the General Authority of Civil Aviation (GACA) of the Kingdom of Saudi Arabia. In terms of community relations and regional support, Fraport is active in a variety of fields; it believes in supporting educational projects, to sponsoring sports events. Environmental protection and community relations rank high with Fraport.

### **2.7.3. SWCC**

Training courses have been proposed for Saline Water Conversion Corporation (SWCC) staff to be run in English by Alfaisal University faculty as well as desalination experts from outside the country. In addition, the development of the Alfaisal undergraduate curriculum is described through enrichment of courses with case studies from SWCC as well as a proposed internship training program for students at SWCC facilities.

The SWCC is a Saudi government corporation that is responsible for desalinating sea water, in order to supplement the supply of potable water to arid coastal and inland cities in the Kingdom. The amount of desalinated water produced by the SWCC's 30 plants in 2007 was 1,066 million cubic meters. The Corporation is also the second largest electrical power producer in the Kingdom.

#### **2.7.4. BOEING**

A draft proposal was prepared describing the “Mechanisms for Collaboration between the BOEING Company and Alfaisal University” The Company is interested in promoting research and education (e.g. establishing Research Chair. There is a possibility for BOEING to support a student internship program that is focused on real world industry problems. BOEING will contribute to the Executive Lectures Series that is held by College of Business, by sending speakers from their side to interact with students. BOEING employee’s affiliates who have not had the chance to get their Master degrees may be able to work on their EMBA program that Alfaisal is planning to offer. Moreover, BOEING and College of Medicine will discuss the ways they can contribute in promoting public health in society. Both parties at this point need to communicate to agree on the details and specifications. BOEING will help Alfaisal in the ABET and AACSB Accreditation process for existing programs through both the self-assessment and external-assessment phases. Alfaisal can also be the BOEING education center in the region. The former can host and organize professional development activities offered by the Company that is open for the public or intended for specific organizations in a way that covers the cost and provides free seats for individuals from both sides.

#### **2.7.5. KFSHRC**

Training in medical research laboratories is an essential part in the development of undergraduate students who will eventually become medical doctors. This unique exercise gives the student an appreciation of the day to day routine as well as the rigors of laboratory work. They are also exposed to researchers who are at the fore front in their fields in the search for finding better methods for treating as well as preventing diseases.

In July 2009, four Alfaisal medical students were selected and spent four weeks at the King Faisal Specialist Hospital & Research Center (KFSHRC) in a Stem Cell Therapy Laboratory under the leadership of Dr. Chaker Adra, Director of the program. When asked about the Alfaisal students Dr. Chaker said that “it was a pleasure having the students in our laboratory. They are intelligent and diligent. Mr. Nassan and Mr. Adi investigated the stem cell therapy approach in treating spinal cord injuries. Mr. Abouammoh contributed to our work on stem cell therapy in peripheral arterial disease. Mr. Anindo explored the stem cell therapy approach in treating cancer, and Mr. Matthbout utilized stem cell therapy methods in treating neurodegenerative diseases”. Ms. Huda Al-Mosallam, the Manager of the Training & Education Office, said that “next year we will try to select a larger number of Alfaisal students by possibly having some students training in the wintertime and provided that we have a longer lead in time”. KFSHRC is one of the co-founders of Alfaisal University. Both partners are committed to collaborate in the areas of training and research.

#### **2.7.6. KACST- Natural Resources & Environmental Research Institute**

In an effort to enhance research collaboration between KACST-NRERI (Natural Resources & Environmental Research Institute) and Alfaisal

University, a successful monthly seminar series was held with the venue alternating between the two institutions (Table 8). Speakers alternated between Alfaisal University Faculty and NRERI Research Staff. Faculty and staff started to interact on specific research projects and proposals. Next year it is planned to further improve the interaction by the creation of focus groups in strategic research areas of interest to both parties.

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*Theo Goosen  
Office of Research & Graduate Studies  
Alfaisal University  
[mgoosen@alfaisal.edu](mailto:mgoosen@alfaisal.edu)*

**Table 8.** KACST-NRERI/Alfaisal University Sem Ser Schedule for AY 2009-10

DATE/VENUE	TITLE	SPEAKER
27 Oct/09 (1:00PM) KACST (NRERI)	Transcriptional Factors as Therapeutic Targets	Alexander Kouzmenko Prof Biology, CoM Alfaisal University
17 Nov/09 (11:00AM) Alfaisal University	Science & Technology Strategic Plan for Biotechnology	Dr. Abdulaziz M. Al- Swailem, Director <i>Natural Resources &amp; Environment Research Institute</i>
29 Dec/09 (11:00AM) KACST (NRERI)	Renal function in normal pregnancy	Ali Al Khraibi Prof of Physiology College Medicine
23 Feb/10 (11:00AM) KACST (NRERI)	Novel use of x-rays to track & treat cancer	Bernhard H.J. Juurlink Prof Anatomy & Cell biology, CoM Alfaisal University
30 March/10 (11:00AM) Alfaisal University	Drug Delivery to CNS Tumors, Gene Expression Models for CNS Tumors/Diseases	Dr. Ali Al-Shanqeeti, MD Oncology
27 April/10 (11:00AM) KACST (NRERI)	Stress and Heart Disease: Involvement of Brain Neuropeptides	Paul Ganguly Prof Anatomy, CoM, Alfaisal University
25 May/10 (11:00AM) Alfaisal University	Establishing a Transgenic Animal Biopharmaceutical Centre at KACST	Dr. Mohammad Al-Fageeh Biochemistry

## 2.8. Updating the Office of Research & Graduate Studies Website

As part of our efforts to provide better service to faculty, staff, students and the general public, the Office of Research & Graduate Studies website is in the process of being redesigned and updated (Figure 10)

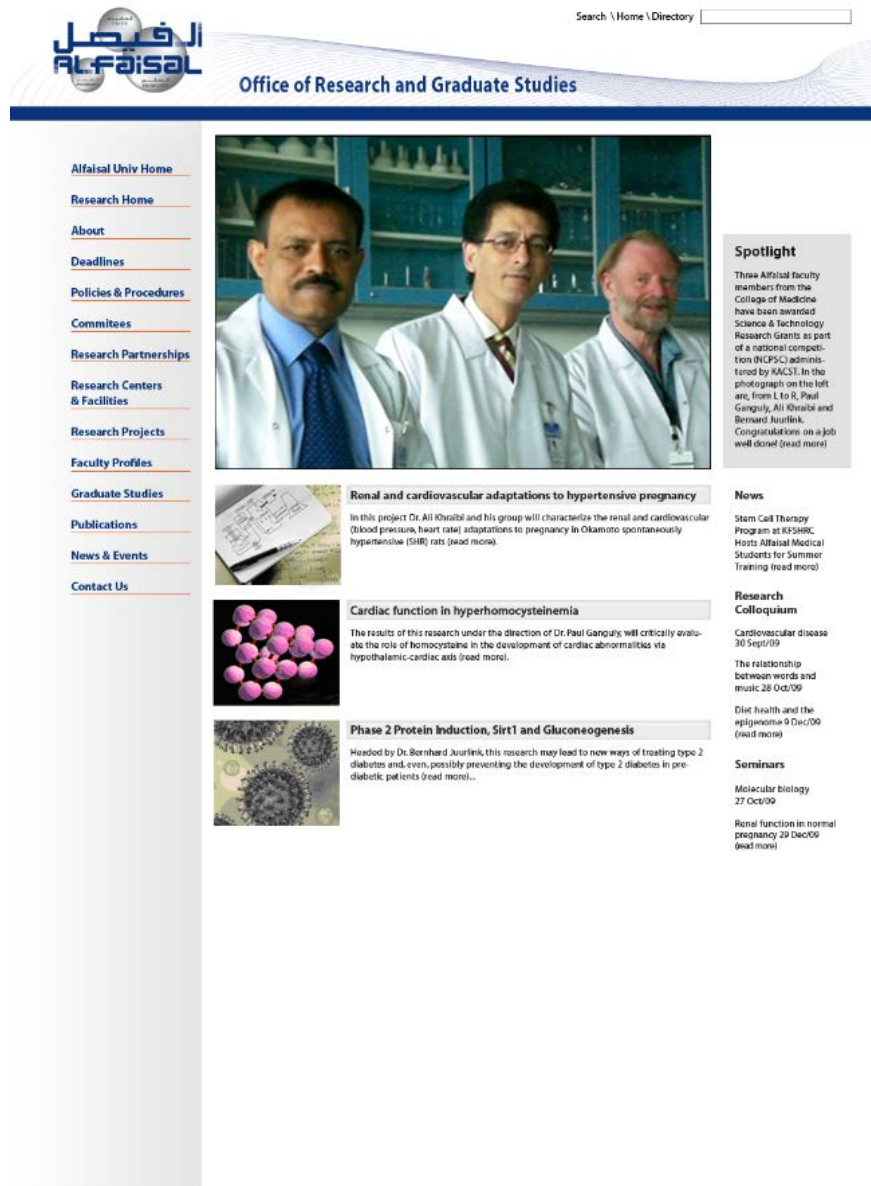


Figure 10. Proposed format for new website design for Office of Research & Graduate Studies

## 2.9. News & Events

A total of 32 research related news and events articles were published on the Alfaisal web site over the past two years. Items covered included lectures, seminars and workshops

- Translational Research: Why It Matters >>> [Read More](#)
- College of Engineering Faculty Member Discusses Role of Surface Coatings in Engineering Designs >>> [Read More](#)
- Alfaisal University's Students Participate in Research Day Student Poster Competition >>> [Read More](#)
- Lessons Learned from the Heart: Biological Explanation for the Adaptive Response "Memory" against Stress and Disease>>> [Read More](#)
- Alfaisal University Researcher Speaks at KACST Natural Resources & Environmental Research Institute on Renal Function in Normal Pregnancy..... >>> [Read More](#)
- Saudi Expert Discusses the Diabetes Epidemic in the Arabian Gulf States. >>> [Read More](#)
- College of Medicine Investigator Talks About How Certain Plant-Derived Chemicals in Our Diet Can Decrease Aging Related Diseases..... >>> [Read More](#)
- KACST Specialist Discusses the Kingdom's Science & Technology Strategic Plan for Biotechnology. >>> [Read More](#)
- SABIC Global Technology & Innovation..... >>> [Read More](#)
- College of Science Specialist in Molecular Biology Gives Talk at KACST-Natural Resources & Environment Research Institute on "Transcriptional Factors as Therapeutic Targets"..... >>> [Read More](#)
- Mitochondrial Dynamics & Reactive Oxygen Species in Diabetes..... >>> [Read More](#)
- Satellite Technology and Applications..... >>> [Read More](#)
- Memorandum of Understanding between Alfaisal University and Fraport Saudi Arabia..... >>> [Read More](#)
- Stem Cell Therapy Program at KFSHRC Hosts Alfaisal Medical Students for Summer Training .....[Details](#)
- Student Summer Research Exchange Program ..... >>> [Read More](#)
- Alfaisal Medical Student Receives Letter of Appreciation from Prominent Medical Physiology Book Author. [Read More](#)
- Beam me up Scotty: Growing crystals and spectroscopic ellipsometry.. >>> [Read More](#)
- Maintaining & Developing Our Intellectual Capital for Future Growth..... >>> [Read More](#)

- Workshop on Student Participation in Research..... >>> [Read More](#)
- Alfaisal University Medical Student Letter Published in Journal of Clinical Anatomy.... >>> [Read More](#)
- Colloid-Based Separations..... >>> [Read More](#)
- The Role of Incubator in Technology Commercialization..... >>> [Read More](#)
- Sustainable Development and Water Harvesting..... >>> [Read More](#)
- Renal Function Adaptations to Pregnancy..... >>> [Read More](#)
- King Faisal International Prize Medicine Lecture by Prof. Ronald Levy..... >>> [Read More](#)
- King Faisal International Prize Science Lecture by Prof. Sir Richard H. Friend..... >>> [Read More](#)
- King Faisal International Prize Science Lecture by Prof. Rashid A. Sunyaev.... >>> [Read More](#)
- Romanticism, the Familiar Essay, and the Rise of Consumerism..... >>> [Read More](#)
- SABIC Polymer Research Chair..... >>> [Read More](#)
- Alfaisal Research Colloquium - The Debt to History in Byron's Don Juan..... >>> [Read More](#)
- Alfaisal Research Colloquium.... >>> [Read More](#)
- Stanford University Space and Aeronautics Workshop... >>> [Read More](#)

## 3. Graduate Studies

### 3.1. Graduate Programs

At the graduate level, a total of 5 programs have been proposed at both the master's and doctoral levels. The proposed programs, which are in various stages of MOHE (Ministry of Higher Education) approval ([Table 9](#)), include EMBA (Executive Masters of Business Administration), MSc & PhD in Biomedical Sciences, MSc in Genetic Counseling, MSc in Radiological & Imaging Sciences, and MSc & PhD in Energy & Environmental Engineering. It is hoped that several of these programs will be approved and running shortly.

**Table 9.** Graduate Programs Submitted in 2009-2010

<b>Program</b>	<b>Status</b>
EMBA (Executive Masters of Business Administration)	Final stages of MoHE approval
MSc & PhD in Biomedical Sciences	Review by MoHE
MSc in Genetic Counseling	Review by UCU then to MoHE
MSc in Radiological & Imaging Sciences	Review by UCU then to MoHE
MSc & PhD in Energy & Environmental Engineering	Needs BOT approval, then to UCU & MoHE

### 3.2. Graduate Policies & Procedures

The Office of Research & Graduate Studies (ORG) has prepared a Graduate Policies and Procedures document for students, faculty and staff to help define their responsibilities and to explain the policies and procedures that govern graduate study at Alfaisal University. The document was based in part on the *Guide to Graduate Policy* at the University of California, Berkeley. In the near future, the Office website may also be consulted for graduate information, including deadlines and policies for admissions, scholarships and degrees. The table of contents from the document is reproduced in [Table 10](#).

As the administrative arm of the University Council, the Office of Research & Graduate Studies monitors the progress of students enrolled in different graduate degree programs, from the time they are admitted to Alfaisal University until they complete their degrees.

The document also describes the admission cycle and the policies that govern the application, applicant evaluation, and admission of new graduate students. Students may apply for admissions to master's and doctoral programs at Alfaisal University from any other university both within and from outside Saudi Arabia. The Office of Research & Graduate Studies (ORG) sets the minimum application requirements and has the ultimate authority to approve or deny graduate admission.



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

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# Appendix A Sample eRA Outputs

 **Startup Projects** 16 June, 2010  
1:52:30 PM

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Award No.	Start Date	Duration Years	PI Name	College	Project Title	Total Amount
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 **Startup Projects** 16 June, 2010  
1:48:05 PM

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PI Name	College	Total Amount	Total Approved Spending	Balance	Cash Spendings	Pending Payments	Advanced Payments without Expense Report
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Total of Fund SR 0.00

Total Approved Spendings SR 0.00

Total Pending SR 0.00

Total Cash Spendings SR 0.00

 **In Process Project** 16 June, 2010  
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Agency No.	PI Name	Project Title	funding Amount Requested	Strategic Area	Start Date	End Date	sub Date
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## Appendix B List of Publications

### Refereed Journal Papers

#### 2010

Adolphe, J.L., S.J. Whiting, B.H.J. Juurlink, L.U. Thorpe and J. Alcorn. 2010. Health effects with consumption of the flax lignan secoisolariciresinol diglucoside. *British Journal of Nutrition*, 103: 929-938

Al-Kassir, A., J. Ganan-Gomez J., A. A. Mohamad, 2010. A Study of Energy Production from Cork Residues: Sawdust, Sandpaper Dust and Triturated Wood, *Energy*, vol .35, 1, 382-386.

Clark, T.A., Maddaford, T.G., Tappia, P., Heyliger, C., Ganguly, P.K., Pierce, G. 2010. Restoration of cardiomyocyte function in streptozotocin-induced diabetic rats after treatment with vanadate in a tea decoction. *Current Pharmaceutical and Biotechnology*, in press

Cowan, M.M., Hamweyah, K.M., Sabbagh, MD, Swaid, A., Alkattan, A.K., Ganguly, P.K. 2010. Persistent bilateral sciatic arteries: a rare finding of clinical importance. *International Journal of Angiology*, in press

Davies, G.F., A.R. Ross, T.G. Arnason, B.H.J. Juurlink, B.H.J. and T.A.A. Harkness 2010. Troglitazone inhibits histone deacetylase activity in breast cancer cells *Cancer Letters* 288: 236-250.

Ganguly, P.K 2010. Anatomy Resource Centre: An Ideal Place for Teachers and Teaching. In (R.V. Nata, Ed.) *Progress in Education, Volume 18*, Nova Publishers pp 51-65.

Ganguly, P.K 2010. Teaching and learning of anatomy in the 21<sup>st</sup> century: Direction and the Strategies. *The Open Medical Education Journal* 3: 5-10.

Ganguly P.K. 2010. Neuropeptide Y level in hypothalamus of experimental diabetic rats: correlation with sympathetic activity and body weight. *International Journal of General Medicine*, in press,

Ganguly, P., A. Khraibi and B.H.J. Juurlink. 2010. Medical education in cardiovascular sciences: accommodating a research-driven curriculum. *CV Network* **9(2)**: 14-17.

Goosen, M. F. A., Sablani, S., Del-Cin, M., Wilf, M., 2010. Effect of Cyclic Changes in Temperature and Pressure on Permeation Properties of Composite Polyamide Spiral Wound Reverse Osmosis Membranes, *Sep Sci Techn*, (accepted 13 June 2010).

Hall, H., E. Sturm, E. Schültke, F. Arfelli, R-H Menk, A. Astolfo and B.H.J. Juurlink. 2010. Progress in cell marking for synchrotron x-ray computed tomography. In: Proceedings of the 6<sup>th</sup> Medical Applications of Synchrotron Research (MASR). American Institute of Physics in press

Hadyn, B. and Wright. N. S. 2010. Female Emirati Graduates and the Multicultural, Mixed Gender Workplace: The Impact of Educational Experiences on Female Students' Team-related Behaviors, Skills, Values and Attitudes Within the Gulf Region. *Accepted for publication in Team Performance Management to be published in August, 2010.*

Hom, J., Tianzheng Yu, Yisang Yoon, George Porter, and Shey-Shing Sheu. 2010. Regulation of mitochondrial fission by intracellular Ca<sup>2+</sup> in rat ventricular myocytes. *Biochimica Biophysica Acta (BBA) - Bioenergetics*. Mar 26. [Epub ahead of print].

Imai Y., Kondoh S., Kouzmenko A., Kato S. – Osteoprotective action of estrogens is mediated by osteoclastic estrogen receptor  $\alpha$  – *Molecular Endocrinology* 2010, 24(5), 877-885.

Kakal F, Yaqinuddin A, Somani M, Mohammed N. 2010. Frequent hypermethylation of *APC*, *RAR-b* and *RASSF1A* in human term placentas” *Placenta*, in press

Kouzmenko A.P., Ohtake F., Fujiki R., Kato S. – Hormonal Gene Regulation through DNA Methylation/Demethylation – *Epigenomics*, 2010, In press

- Luccini, M., A. Shami, S. Primak, 2010. "Cross-Layer Optimization of Network Performance over MIMO Wireless Mobile Channels," *IET Communications Journal*. In press
- Lv, X., Zou, Q., Zhao, Y. Reeve, D. 2010. A novel coupled level set and volume of fluid method for sharp interface capturing on 3D tetrahedral grids *Journal of Computational Physics, Volume 229, Issue 7, 1 April, Pages 2573-2604*
- Mahajan A, **Simoni** J, Sheather S, Rajab MH, and Wesson D. 2010. Reducing Tissues Acid Slows Rate of GFR Decline in Hypertensive Nephropathy. *Journal of the American Society of Nephrology*. In press.
- Mahmoudi, H., Spahis, Abdul-Wahab, Sablani, S., and Goosen, M.F.A 2010. Improving the performance of a Seawater Greenhouse desalination system by assessment of simulation models for different condensers, *JRSER*, (accepted 11 March 2010).
- Mahmoudi, H., Spahis, N., Goosen, M.F.A., Ghaffour, N., Drouiche N., and Ouagued, A., 2010. Application of geothermal energy for heating and fresh water production in a brackish water greenhouse desalination unit: A case study from Algeria, *JRSER*, Vol. 14 (1), 512-517.
- Marrif, H.I., A. N.A. Alwabel, A.E. Abdulhameed and B.H.J. Juurlink. 2010. Migraine headache: the astrocyte connection. *American Journal of Scientific Research* 8: 68-77.
- Mohamad A. A., and A. Kuzmin, 2010. A Critical Evaluation of Force Term in Lattice Boltzmann Method, Natural Convection Problem, *Int. J. Heat and Mass Transfer*, vol.53, 5-6, 990-996.
- Mohamed, K. M., and A. A. Mohamad, 2010. On the Development of Hybrid Atomistic-Continuum Methods for Dense Fluids, Macrofluidics and Nanofluidics, vol. 8, 3, 283-302.
- Piziak V, Rajab MH. 2010. Cost-Effective Team Approach to Improve Post-hip Fracture Care. *Journal of Orthopedic Trauma*. In press
- Saleh W, Bamousa A, Al-Mutairi, AlKattan K, 2010. Thoracic Enucleation of Esophageal Leiomyoma in Patient with MEN I Syndrome, *Annals of Thoracic Medicine – Vol. 5, Issue 1, January – March*.
- Schültke, E, R.W. Griebel, B.H.J. Juurlink. 2010. Quercetin administration after spinal cord trauma changes S-100 b levels. *Canadian Journal of Neurological Sciences*, **37** 223-228.
- Schültke, E., R. Griebel and B.H.J. Juurlink. 2010. Quercetin attenuates inflammatory processes after spinal cord injury in an animal model. *Spinal Cord*. in press.
- Schültke, E., S. Fiedler, C. Nemoz, L. Ogieglo, M.E. Kelly, P. Crawford, F. Esteve, T. Brochard, M. Renier, H. Requard, G. LeDuc, B.H.J. Juurlink and K. Meguro. 2010. Synchrotron-based intravenous K-edge digital subtraction angiography in a pig model: a feasibility study. *European Journal of Radiology*, 73: 677-681
- Schültke, E., H. Kamencic, V. Skihar, R.W. Griebel and B.H.J. Juurlink. 2010. Quercetin in an animal model of spinal cord compression injury: Correlation of treatment duration with recovery of motor function. *Spinal Cord* **48**: 112-117.
- Swazo, N., 2010. "Just One Animal Among Many?" Existential Phenomenology, Ethics, and Stem Cell Research", *Theoretical Medicine and Bioethics*. (Open access, online June 2010: DOI:10.1007/s11017-010-9143-z
- Takada I., Kouzmenko A.P., Kato S. – PPAR $\gamma$  signaling cross-talk in mesenchymal stem cells. – *PPAR Research* 2010, In Press
- Tod A. Clark, Thane G. Maddaford, Pram Tappia, Clayton E. Heyliger. Pallab (Paul) Ganguly and Grant N. Pierce. 2010. Restoration of cardiomyocyte function in streptozotocin-induced diabetic rats after treatment with vanadate in a tea decoction. *Curr. Pharm Biotechnol.* in press.
- Wright, N., Caneen, J., Alexander, N. and Gomez. A. 2010. Conservation Area Start-Ups: Combining Theory and Practice. *Journal of Developmental Entrepreneurship*, v. 15 no. 1, p. 55-67.

Yaqinuddin A, Abbas F, farooq S, Qazi R, Qureshi SA 2010. "DNMT1 silencing effects locus specific DNA methylation and increases invasiveness of prostate Cancer Derived PC3 cells. *Journal of Urology* 182: 760-765.

Yaqinuddin A, Bashir MU. 2010. Utility of DNA Methylation markers in diagnosis of Cancer. *International journal of Surgery*, in press, Epub Feb 2010

Yoon, Y., Chad A. Galloway, Bong Sook Jhun, and Tianzheng Yu. 2010. Mitochondrial dynamics in diabetes. *Antioxidants & Redox Signaling*, Jun 2. [Epub ahead of print].

Yu, T., Bong Sook Jhun, Yisang Yoon. 2010. High glucose increase reactive oxygen species production through the calcium and MAP kinase-mediated activation of Mitochondrial fission. *Antioxidants & Redox Signaling*. 2 Jun. [Epub ahead of print]

## 2009

Abdelrahman, H. Al Yafie, B. A., and Goosen, M. F. A., 2009, "Evaluation of environmental factors and equipment configuration on efficiency of a solar soil water collector", *Int. J. Environmental Technology and Management*, Vol. 10 (3/4), 260-273.

Alamyane, A. A., and A. A. Mohamad, 2009. Simulation of Forced Convection in Channel with Extended Surfaces by Lattice Boltzmann Method, *Computer and Mathematics with Applications (CMA)* (in press).

Aldabbag L. B. Y. and A. A. Mohamad, 2009. A Three Dimensional Numerical Simulations of Impinging Jet Arrays on a Moving Plate, *Int. J. Heat and Mass Transfer*, vol. 52, issue 21-22, pp. 4894-4900.

Aldabbagh L. B. Y. and A. A. Mohamad, 2009. Mixed Convection in an Impinging Laminar Single Square jet, *ASME J. Heat Transfer*, vol. 131, Issue 2, 02201, Feb.

Al Kattan, K. 2009. Student Centered Education, *European Journal of Cardio-Thoracic Surgery* (35), 392-397.

Al Ras, A.O. and B.H.J. Juurlink. 2009. Renaming gastrocnemius to biceps tibialis. *Clinical Anatomy* 22: 637-638.

Bai, X., A. Shami, and Y. Ye, 2009. "Delay Analysis of Ethernet Passive Optical Networks with Quasi-leaved Polling and Gated Service Scheme," *International Journal of Communication Networks and Distributed Systems*, Vol. 2, Number 2-3, pp. 138 - 159, (selected for publication as an outstanding paper from the Proceedings of IEEE/Create-Net AccessNets 2007 conference)

Bennacer, R., A. A. Mohamad and M. El Ganaoui, 2009. Thermodiffusion in Porous Media: Multi-Domain Constituent Separation, *Int. J. Heat Mass Transfer*, March, Vol. 52, issue 7-8, pp. 1725-1733.

Butler, T. Plague into the 21st century. *Clin. Infect. Dis.* (in press) 2009

Davies, G. F, Juurlink, B.H.J. and T.A.A. Harkness. 2009. Troglitazone reverses the multiple drug resistance (MDR) phenotypes in cancer. *Drug Design, Development and Therapy* 3: 79-88.

DeAlwis, N., A. A. Mohamad and A. Mehrota, 2009. Exergy Analysis of Direct and Indirect Combustion of Methanol by Utilizing Solar Energy or Waste Heat, *J.Energy & Fuel*, 23 (3), pp. 1723-1733.

Dechene, D., K. Meerja, A. Shami. 2009. "Performance evaluation of MIMO-aware media access control protocol," *Elsevier Physical Communication Journal*, Vol. 2, Issue 3, pp. 204-216, Sep.

EIBawab H, Saleh W, AlKattan K, 2009 Clinical Use of Combined PET/CT in Recurrence of Thymoma, Submitted to *Annals of Thoracic Surgery*, January (35) 392-397.

EIBawab, H., W. Hajjar, K. Al Kattan, Plasmapheresis before Thymectomy in Myasthenia Gravis Routine vs Selective Protocols, *EJCTS*, accepted for publication (In process for 2009).

- El-Shall, M. S., Ibrahima, Y., Alsharaeh, E., Meot-Ner, M., Watson, S. 2009. "Reactions between Aromatic Hydrocarbons and Heterocyclics: Covalent and Proton-Bound Dimer Ions of Benzene/Pyridine". *Journal of the American Chemical Society* 131(29):10066-76.
- Erlangga, Y.A., Nabben, R., 2009. Algebraic multilevel Krylov methods, *SIAM Journal on Scientific Computing*, **31**, pp. 1417-1437.
- Faisal, N. H., J. A. Steel, R. Ahmed and R. L. Reuben, 2009. "The Use of Acoustic Emission (AE) to Characterise Vickers Indentation Behaviour of HVOF Thermally Sprayed WC-12%Co Coatings", *Jr. of Thermal Spray Technology*, Volume 18, Number4, 525-535, December.
- Falcucci, G., G. Chiatti, S. Succi, A. A. Mohamad and A. Kuzmin, 2009. Rupture of a ferrofluid droplet in external magnetic fields using a single-component lattice Boltzmann model for nonideal fluids, *Physical Review E*, Vol.79, Issue: 5 Article Number: 056706 Part: Part 2, May.
- Ganguly, P.K. 2009. Teaching and learning of anatomy in the 21<sup>st</sup> century: direction and the strategies. *The Open Medical Education Journal*, 2:88-93
- Ganguly, P.K., Chan, L.K., 2009, Living anatomy in 21st century. *South East Asian Journal of Medical Education*, in press.
- Herrmann, F. J., Brown, C. R., Erlangga, Y. A., and Moghaddam, P. P. 2009. Curvelet-based migration preconditioning, *Geophysics*, **74**, pp. A41-A46.
- Herrmann, F. J., Erlangga, Y. A., and Lin, T.T.Y. 2009. Compressed simultaneous full-wavefield simulation, *Geophysics*, **74**, pp. A35-A40.
- Huang S., and A. A. Mohamad, 2009, Modelling of Cavitation Bubble Dynamics in Multicomponent Mixtures, *J. Fluid Engineer*, March, Vol. 131, 3, pp. 031301.
- Hull, S., 2009. 'Spellbinding London: Charles Lamb and the Old Country House', *Studies in Romanticism*, (in press).
- Ibrahim, Y., Alsharaeh, E., Mabrouki, R. Momoh, P. Xie, E., El-Shall, M. S. 2008. Ion Mobility of Ground and Excited States of Laser-Generated Transition Metal Cations. *Journal of Physical Chemistry A* (2008), 112(6), 1112-1124.
- Imai Y., Kondoh S., Kouzmenko A., Kato S. – Regulation of bone metabolism by nuclear receptors. – *Molecular and Cellular Endocrinology* 2009, 310 (1-2), 3-10
- Imai Y., Youn M.Y., Kondoh S., Nakamura T., Kouzmenko A., Matsumoto T., Takada I., Takaoka K., Kato S. – Estrogens Maintain Bone Mass by Regulating Expression of Genes Controlling Function and Life Span in Mature Osteoclasts. *Ann. N.Y. Acad. Sci.* 2009, 1173 (Suppl 1), E31-E39.
- Kakal F, Yaqinuddin A, Somani M, Mohammed N" Frequent hypermethylation of *and RASSF1A* in human term placentas" *Placenta* (accepted 2009)  $\beta$ APC, RAR-
- Karam, J., AbdelWahed, I. and Al-Mallah, O. 2009. *Theory of Nil - Semiclean Rings*, *International Journal of Mathematical and Statistical Sciences*, IJMSS, Vol. 57, September, pp: 1005 – 1010.
- Kirmani BF, Crisp ED, Kayani S, Rajab MH. 2009. Role of Intravenous Levetiracetam in Acute Seizure Management in Children. *Pediatric Neurology*, 41(1): 37-39.
- Kuzmin, A. and A. A. Mohamad, 2009. Multi-rang Multi-relaxation Time Shan-Chen Model with Etended Equilibria, *Computers and Mathematics with Applications* (CMA) (in press).
- Mahmoudi H, Spahis N, Goosen MFA, Sablani S, Abdul-Wahab S, Ghaffour N, 2009. Assessment of wind energy to power solar brackish water greenhouse desalination units: A case study from Algeria. *JRSER*, 13 (8): 2149-2155.
- Meerja, K. and A. Shami, 2009. "Analysis of Enhanced Collision Avoidance Scheme Proposed for IEEE 802.11e Enhanced Distributed Channel Access Protocol," *IEEE Transactions on Mobile Computing*, Volume 8, Issue 10, pp. 1353 – 1367, Oct.

- Mohamad A. A. and S. Succi, 2009. A Note on Equilibrium Boundary Conditions in Lattice Boltzmann Fluid Dynamic Simulations, *Eur. Physics J. Special Topics*, 171, 213-221.
- Mohamad, A. A., R. Bennacer and M. El-Ganaoui, 2009. Lattice Boltzmann Simulation of Natural Convection in an Open Ended Cavity, *Int. J. Thermal Sciences*, vol. 48, Issue 10, pp. 1870-1875.
- Mohamad, A. A., 2009. Lattice Boltzmann Method for Heat Diffusion in Axis-Symmetric Geometries, *Progress in Computational Fluid Dynamics*, Vo. 9, Issue 8, pp. 490-494.
- Muhad, R. M. N., M. Z. Abdullah, A. A. Mohamad, M. A. Mujeebu, M. Z. Abu Bakar and R. Zakaria, 2009. 3-D Numerical Modeling and Experimental Investigation of Partial-Premix Type Porous Medium Burner Using LPG Fuel, *J. Porous Media* (in press).
- Mujeebu, M.A, M.Z Abdullah, M.Z. Abu Bakar, A.A. Mohamad, M. K. Abdullah., 2009. Combustion in Porous media and its applications- A comprehensive survey, *Journal of Environmental Management*, Vol. 9, Issue 8, pp. 2287-2312.
- Mujeebu, M. A, M.Z Abdullah, M.Z. Abu Bakar, A.A. Mohamad, M. K. Abdullah., 2009. A Review of Investigations on Liquid Fuel Combustion in Porous inert media, *Progress in Energy and Combustion Science*, Vol. 35, pp. 216-230,.
- Mujeebu, M.A, M.Z Abdullah, M.Z. Abu Bakar, A.A. Mohamad, M. K. Abdullah. 2009. Applications of porous media combustion technology- A review, *Applied Energy*, Vol. 86, issue 9, pp. 1365-1375.
- Rajab MH, Villmaria FJ, and Rohack JJ. 2009. Evaluating the Status of "Translating Research into Practice" at a Major Academic Healthcare System. *The International Journal of Technology Assessment in Health Care*. 25(1): 84-89.
- Salehabadi, M., M. Jin, J. Yang, H. Haghghi, R. Ahmed and B. Tohidi, 2009. "Finite Element Modelling of Casing in Gas Hydrate Bearing Sediments", *SPE Drilling & Completion Journal*, Volume 24, Number 4, pp. 545-552, December.
- Schültke, E, R.W. Griebel, B.H.J. Juurlink 2009. Quercetin administration after spinal cord trauma changes S-100 levels. *Canadian Journal of Neurological Sciences*, 37: 223-228.
- Schültke, E., V. Sadanand, M. Kelly, R. W. Griebel and B.H.J. Juurlink. 2009. Can admission S-100beta levels in urine be used as a predictor for the extent of brain damage in head trauma patients? *Canadian Journal of Neurological Sciences*, 36 (5) 612-616.
- Skare, M. and Skoko, H. (2009), Estimating Sources of Economic Growth in Croatia (1960-2007), forthcoming in the *Journal of Policy Modelling*, EconModels.com.
- Suzuki E., Ito S., Sawatubashi S., Shiode Y., Zhao Y., Yamagata K., Furutani T., Tanabe M., Kouzmenko A., Aigaki T., Tabata T., Takeyama K., Kato S. 2009. Aberrant E2F activation by androgen receptor polyglutamine expansion mutants in SBMA neurotoxicity. – *Proceedings of the National Academy of Sciences of the USA* 2009, 106 (10), 3818-3822.
- Swazo, N.K. 2009. Rehabilitating Islamic Ethics: A 'Postmodern' Opportunity for Contemporary Islam. *American Journal of Islamic Social Sciences*, 26:2, Spring, 1-22
- Takada I., Kouzmenko A.P., Kato S. – WNT and PPAR signaling in osteoblastogenesis and adipogenesis. – *Nature Reviews Rheumatology* 2009, 5 (8), 442-447.
- Takada I., Kouzmenko A.P., Kato S. 2009. Molecular Switching of Osteoblastogenesis Versus Adipogenesis: Implications for Targeted Therapies. *Expert Opinion on Therapeutic Targets*, 13 (5), 593-603.
- Tang, J.M., Nabben, R., Vuik, C. and Erlangga, Y.A. 2009. Comparison of Two-Level Pre-conditioners Derived from Deflation, Domain Decomposition and Multigrid Methods, *Journal of Scientific Computing*, 39, pp. 340-370.
- Wright, N. S., Caneen, J., Alexander, N., and Gomez, A. 2009. Conservation Area Start-Ups: Combining Theory and Practice, in the *Journal of Developmental Entrepreneurship* . (Accepted for publication 2009)



Wright, N. S. and Bennett, H. 2009. Cross-cultural Teamwork Issues in Pacific Island Sustainability. *International Journal of Environmental, Cultural, Economic, and Social Sustainability*. v5. no. 4, p. 257-268.

Xia, G. H., Zhao, Y. and Yeo, J. H. 2009. Parallel Unstructured Multigrid Simulation Of 3D Unsteady Flows And Fluid-Structure Interaction Using Immersed Membrane Method, *Computers & Fluids*, Volume 38, Issue 1, January, pp 71-79.

Yaqinuddin A, Abbas F, farooq S, Qazi R, Qureshi SA 2009. "DNMT1 silencing effects locus specific DNA methylation and increases Invasiveness of Prostate Cancer Derived PC3 cells. *Journal of Urology* (In Press)

Yu, H., R. Ahmed, H. de Villiers Lovelock and S. Davies, 2009. "Influence of Manufacturing Process and Alloying Element Content on the Tribomechanical Properties of Cobalt-Based Alloys", *ASME Journal of Tribology*, 131(1).

Zhao Y., Takeyama K., Sawatsubashi S., Ito S., Suzuki E., Yamagata K., Tanabe M., Kimura S., Fujiyama S., Ueda T., Murata T., Matsukawa H., Shiode Y., Kouzmenko A.P., Li F., Tabata T., Kato S. 2009. Co-repressive action of CBP on Androgen Receptor transactivation in pericentric heterochromatin in a *Drosophila* experimental model system. *Mol. Cell. Biol.*, 29 (4), 1017-1034.

## 2008

Ahmed, R., H. Yu, L. Edwards and J. Santisteban, 2008. "Neutron Diffraction Residual Strain Measurements in Post-treated Thermal Spray Cermet Coatings", *Material Science and Engineering-A*, 498, 191-202.

Aldabbagh, L. B. Y., H. F. Manesh and A. A. Mohamad, 2008, Unsteady Natural Convection inside a Porous Enclosure Heated from the Side, *J. Porous Media*, Vol. 1, Issue 1., pp. 73-83.

Al-Obeidani, S., Al-Hinai, H., Goosen, M.F.A., Sablani, S., Taniguchi, Y., and Okamura, H., 2008, "Chemical Cleaning of Oil Contaminated Polyethylene Hollow Fiber Microfiltration Membranes" *J. Membrane Science*, 307, 299-308.

Bai, X. and A. Shami, 2008. "Two Dimensional Cross-layer Optimization for Packet Transmission over Fading Channel," *IEEE Transactions on Wireless Communications*, Vol. 7, Issue 10, pp. 3813-3822, Oct.

Bai, X., A. Shami, and Y. Ye. 2008. "Robust QoS Control for Single Carrier PMP Mode IEEE 802.16 System," *IEEE Transactions on Mobile Computing*, Vol. 7, No. 4, pp. 416-429, April.

Bamousa, K. Al Kattan, Surgical Management of Non-Small Cell Lung Cancer, *Annals of Thoracic Medicine*, Vol. 3(2), 10-08, 582-588, 2008.

Chan, L.K., Ganguly, P.K., 2008. Evaluation of small group teaching in human gross anatomy in a caribbean medical school. *Anatomical Sciences Education* , 1:19-22.

Dawlatly, A., A, Turkistani, K. Al Kattan, et al. Anesthesia for Thyrectomy in Myasthenia Gravis (report of 115 cases), *MEJ Anesthesia*, 19 (6) 2008, 1379 – 1386.

Dharap, A., Bandaranayake, R., Robertson, A.S., Mohammad, A.M., Al-Haddad, M.K., Ganguly, P.K., 2008. Perceptions of Medical Students Undertaking a Problem-Based Learning Curriculum: Experiences During the Pre-Clerkship Phase. *Bahrain Medical Bulletin*, 30:1-8.

Eldawlatly, A., Al-Kattan, K. Hajjar, K., Mahdy, M., 2008. Anesthetic Considerations of Gastro-Bronchial Fistula Repair. *The Internet Journal of Anesthesiology* 2007; Volume 12 Number 1.

Elkins GR, Marcus MJ, Stearns V., Perfect M, Rajab MH, Ruud C, Palamara L, and Keith T. 2008. Randomized trial of a Hypnosis Intervention for Treatment of Hot Flashes among Breast Cancer Survivors. *Journal of Clinical Oncology*. Vol 26, No 31 (November 1): pp. 5022-502.

Erlangga, Y.A., and Nabben, R.2008. On a multilevel Krylov method for the Helmholtz equation preconditioned by shifted Laplacian, *Electronic Transaction on Numerical Analysis*, (31) pp. 203-234.

- Ganguly, P.K., Maddaford, T. G., Edell, A.L., Karmin, O, K, Smeda, J.H., Pierce, G. N., 2008. Increased homocysteine-induced release of excitatory amino acids in the striatum of spontaneously hypertensive stroke-prone rats. *Brain Research*, 1226: 192-198.
- Ghani, N., Q. Liu, J. Lankford, A. Shami, C. Assi, A. Khalil, 2008. "Value-Added Services in Next-Generation SONET/SDH Networks," *IEEE Communications Magazine*, Volume 46, Issue 11, pp. 64 – 73, November
- Hall, C.J., E. Schültke, L. Rigon, K. Ataelmannan, S. Rigley, R. Menk, F. Arfelli, G. Tromba, S. Pearson, S. Wilkinson, A. Round, S. Crittall, R. Griebel, and B.H.J. Juurlink 2008. Synchrotron based in-vivo tracking of implanted mammalian cells. 2008. *European J. Radiology* 68 (Suppl 3): 156-159.
- Herrick J, Smotek C, Cummings, and Rajab MH. 2008. Effectiveness of the Rapid Recovery Total Joint Program on Patient Outcomes. *Nursing Research*. In print.
- Huang, S., K. Nandakumar and A. A. Mohamad, 2008. Numerical Analysis of a Two-Phase Flow and Mixing Process in a Stirred Tanks, *Int J Chem Reactor Engineering*, Vol. 6, A38, pp.1-17.
- Jamin, Y. L. & A. A. Mohamad, 2008, Natural Convection Heat Transfer Enhancements from Cylinder using Porous Carbon Foam, *Exp Study, ASME J. Heat Transfer*, Vol. 130, Issue 12, 122502-8.
- Kelly, M.E., R.C. Beavis, D. Fiorella, E. Schultke, L.A. Allen, B.H.J. Juurlink, Z. Zhong and L.D. Chapman. 2008. Analyzer-based imaging of spinal fusion in an animal model. *Physics in Biology & Medicine* 53: 2607-2616.
- Kimura S., Sawatsubashi S., Ito S., Kouzmenko A., Suzuki E., Zhao Y., Yamagata K., Tanabe M., Ueda T., Fujiyama S., Murata T., Matsukawa H., Takeyama K., Yaegashi N., Kato S. 2008. Drosophila arginine methyltransferase 1 (DART1) is an ecdysone receptor co-repressor. *Biochem. Biophys. Res. Commun.* 371 (4), 889-893.
- Kouzmenko A.P., Takeyama K., Kawasaki Y., Akiyama T., Kato S. 2008. Truncation mutations abolish chromatin-associated activities of adenomatous polyposis coli. *Oncogene* 27 (36), 4888-4899.
- Kouzmenko A.P., Takeyama K., Kawasaki Y., Akiyama T., Kato S. 2008. – and adenomatous $\alpha$ Ligand-dependent interaction between estrogen receptor polyposis coli. *Genes Cells* 13 (7), 723-730.
- Kuzmin, A., A. A. Mohamad and S. Succi, 2008. Multi Relaxation Time Lattice Boltzmann model for multiphase flows, *Int. J. of Modern Physics C*, Vol. 19, No. 6, 875-902.
- Mahmoudi, H., Abdul-Wahab, S.A., Goosen, M.F.A., Sablani, S., Perret, J., Ouagued, A., and Spahis, N., 2008. "Weather Data and Analysis of Hybrid Photovoltaic-Wind Power Generation Systems Adapted to a Seawater Greenhouse Desalination Unit Designed for Arid Coastal Regions". *Desalination*, 222, 119-127.
- Meerja, K. A., and A. Shami, 2008. "Enhancing channel utilization by improving media access coordination in wireless local area networks," *Wiley Wireless Communications and Mobile Computing Journal*, Vol. 8, Issue 2, pp. 155-169
- Murata T., Suzuki E., Ito S., Sawatsubashi S., Zhao Y., Yamagata K., Tanabe M., Fujiyama S., Kimura S., Ueda T., Matsukawa H., Kouzmenko A., Furutani T., Kuranaga E., Miura M., Takeyama K., Kato S. 2008. RNA-Binding Protein Hoip Accelerates PolyQ-Induced Neurodegeneration in Drosophila. *Biosci. Biotechnol. Biochem.* 72 (9), 2255-2261
- Noyan-Ashraf, M.H., Z. Sadeghinejad, D. Saucier, G.F. Davies, T.A.A. Harkness, A.R. Ross and B.H.J. Juurlink. 2008. Phase 2 protein inducers in the diet promote healthier aging. *Journal of Gerontology A: Biological Sciences & Medical Sciences* 63: 1168-1176.
- Parry, J.P., F. C. Dear, R. Ahmed, J. D. Shephard and D. P. Hand, 2008. "Fiber Laser Processing of Thick Ytria Stabilized Zirconia", 27th International Congress on Applications of Lasers & Electro-Optics, CA, USA, October.
- Piziak V and Rajab MH. 2008. Cost-Effective Team Approach to Improve Post-hip Fracture Care. *Journal of Ortho Surgery*. In print.

- Pliego JP, Wehbe-Janek H, Rajab M Hasan, Browning JL, and Fothergill RE , 2008. Ob/Gyn Boot Camp Using High Fidelity Human Simulators: Enhancing Residents' Perceived Competency, Confidence in Taking a Leadership Role, and Stress Hardiness. *Simulation in HealthCare*. 3(2): 82-89.
- Rabai, K. A.K. Mojtabi, M. J. Safi and A. A. Mohamad, 2008, Numerical Study of Themosolutal Convection with Soret Effect in a Square Cavity, *Int. J. Numerical Methods for Heat and Fluid Flow*, Vol. 18, No. 5, pp. 561-574.
- Rothberg MB, Bonner AB, Rajab MH, 2008. Stechenberg BW, Rose DN. Do pediatricians manage Influenza differently than internists? *BMC Pediatrics*, 8:15.
- Schültke, E., B.H.J. Juurlink, K. Ataelmannan, J. Laissue, H. Blattmann, E. Bräuer-Krisch, A. Bravin, J. Minczewska, J. Crosbie, H. Taherian, T. Wysokinsky, L.D. Chapman, R. Griebel, D. Fourney. 2008. Memory and Survival after Microbeam Radiation Therapy. *European J. Radiology* 68 (Suppl 3): 142-146.
- Semma, E., M. El Ganaoui, R. Bennacer and A. A. Mohamad, 2008, Investigation of flows in solidification by lattice Boltzmann method, *Int. J. Thermal Sciences*, 47,3,201-208.
- Senanayake, V., B.H.J. Juurlink, C. Zhang, E. Zhan, L.D. Wilson, J. Kwon, J. Yang, Z.L. Lim, S.M.K. Brunet, G. Schatte, J.M. Maley, R.E. Hoffmeyer and R. Sammynaiken. Do surface defects and modification determine the observed toxicity of Carbon Nanotubes? *Journal Biomedical Nanotechnology* 4: 515-523.
- Skoko, H., Ceric, A. and Chun-yan, H. (2008) ICT adoption models in Chinese SMEs. *International Journal of Business Research (IJBR)* Volume 8, Number 4, pages 161-165, 2008 ISSN: 1555-1296.
- Swazo, N.K. 2008."My Brother is My King': Evaluating the Moral Duty of Global Jihad," *International Journal on World Peace*, Vol. XXV, No. 4, December, pp. 7-47
- Swazo, N.K. 2008. "Is There an Ethical Doctor in the House?: Avoiding 'the Dream of [Having] an Ethical Algorithm'," *The Yale Journal for Humanities in Medicine*; online <http://yjhm.yale.edu/essays/nswazo20080825.htm>
- Swazo, N.K. 2008. "Human Version 2.0: Between the 'Banality' and 'Ressentiment' of Neuroengineers," *NeuroQuantology*, March, Vol. 6, No. 1, pp. 32-42
- Tanabe M., Kouzmenko A.P., Ito S., Sawatsubashi S., Suzuki E., Fujiyama S., Yamagata K., Zhao Y., Kimura S., Ueda T., Murata T, Matsukawa H., Takeyama K., Kato S. 2008. Activation of facultatively silenced Drosophila loci associates with increased acetylation of histone H2AvD. *Gene Cells*, 13 (12), 1279-1288.
- Villamaria FJ, Pliego J, Wehbe-Janek H, Rajab MH, Neil Coker. Sibbitt S, Ogden PE, Musick K, Browning JL, Hays Grudo J. 2008. Using Simulation to Orient Code Blue Teams to a New Hospital Facility. *Simulation in Healthcare* . In print.
- Wallace, T. D., A. Shami, and C. Assi, 2008. "Scheduling Advance Reservation Requests for WDM Networks with Static Traffic Demands," *IEEE Proceedings on Communications*, Volume 2, Issue 8, pp. 1023 - 1033 , September
- White RR, IV, Pitzer K, Fader R, Rajab MH and Song J. 2008. Pharmacokinetics of Topical and Intravenous Antibiotics in Patients with Clean Surgical Wounds. *Plastic and reconstructive surgery*, 122(6):1773-9.
- Willson, P.J., T. Talaei Khozani, B. H. J. Juurlink, A. Senthilselvan, D. C. Rennie, V. Gerdt, J. Gawaziuk, D. Schneberger, L. H. Burch, J. A. Dosman. 2008. by human monocytes stimulated with LPS is  $\alpha$ In vitro production of TNF- positively correlated with increased blood monocytes after exposure to a swine barn. *Journal of Toxicology and Environmental Health, Part A*, 71:1349-1354.
- Wright, Norman S. and Hadyn Bennett. 2008. Harmony and Participation in Arab and Western Teams. *Education, Business and Society: Contemporary Middle Eastern Issues*, v. 1 no. 4, p. 230-243.

Yaqinuddin A, Abbas F, Naqvi Z, Bashir MU, Qazi R, Qureshi SA, 2008 "Silencing of MBD1 and MeCP2 in prostate cancer derived PC3 cells produces differential gene expression profiles and cellular phenotypes" Bioscience Reports 28 (6):319-326.

Yaqinuddin A, Abbas F, Qazi R, Qureshi SA 2008. "Down regulation of DNMT3b in PC3 cells, effects locus specific DNA methylation and represses cellular growth and migration" Cancer Cell International, 8:13

Yu, T., and Khraibi, A. A. 2008. Enalapril treatment restores the decreased proximal tubule reabsorption in response to acute volume expansion in diabetic rats. Life Sciences 83:364-368.

Yu, Tianzheng, Shey-Shing Sheu, James L. Robotham, Yisang Yoon: 2008. Mitochondrial fission mediates high glucose-induced cell death through elevated production of reactive oxygen species. Cardiovascular Research. Jul 15; 79(2):341-51.

Ziarani, A. S. and A. A. Mohamad, 2008, Effect of wall roughness on the slip off fluid in a microchannel, Nanoscale and Microscale Thermophysical Engineering, vol 12, No. 2, pp. 154-169.

## Patents

### 2010

Ahmed R. Dedi, R and G. Markx, The Coating, PCT Patent (pending), 2010.

### 2009

Ahmed R., Dedi, R and G. Markx, The Coating, UK Patent (pending), 2009.

Menk, Ralf, Elisabeth Schültke, Bernhard Juurlink and Chris Hall. 2009. Method For Long-Term Tracking Of Cells In Vivo. Italian Patent Office, # PD2008A000187. **Brief Description:** A method is described to label cells with gold nanoparticles. Such labeled cells can be tracked over time using x-rays following administration to animals.

### 2008

## Books

### 2010

Gangully, P. 2010 Catecholamine's and Heart Disease Vol. 2 (CRC Press, Boca Raton, Florida) ISBN Number 0-8493-5810-8 (in press, due 2010)

Hull, S. 2010. Charles Lamb, Elia, and The London Magazine: Metropolitan Muse, Pickering & Chatto  
Laboy, E., Goosen, M.F.A. & Emmanuel, E, (Eds), 2010. "Environmental and Human Health: Risk Management in Developing Countries" Taylor & Frances (Balkema NDL) London. 17 Chapters, (in press, due Sept 2010).

### 2009

Laboy, E., Schaffner, F., Abdelhadi, A., & Goosen, M.F.A (Eds) 2009. " Environmental Management Sustainable Development & Human Health" Taylor & Frances (Balkema NDL) London. 35 Chapt, 594pp, ISBN: 978-0-415-46963-0

Shami, A. Maier, M., and Assi, C. (Editors:) 2009 Broadband Access Networks: Technologies and Deployments, Springer

Skoko, H., and Ceric, A. (2009) Theory and applications of the systemic approach, Zaduzbina Andrejevic, Belgrade (in press).

Skoko, H. and Skare, M., (2009) Microeconomics, Principles, FET Pula and Mikrorad, Zagreb, Croatia. (in press).

## 2008

Skoko, H., (2008) Supplementary Material Test Bank for Macroeconomics, by Bernanke, B., Olekalns, N. and Frank, R.H., MacGraw-Hill, Sydney, 2nd edition.

## Book Chapters

### 2010

Goosen, M. F. A., Laboy, E. and Emmanuel, E. 2010. Environmental and human health risk management: An overview. in: Laboy, E., Goosen, M.F.A. & Emmanuel, E, (Eds), 2010. "*Environmental and Human Health: Risk Management in Developing Countries*" Taylor & Frances (Balkema NDL) London. Chapter 1, In press (due Sept 2010)

Juurlink, B.H.J. 2010. Fumbling towards ecstasy: A journey to understand a small corner of the universe. Editors: C. Rangacharyulu and Emmanuel Haven, "Proceedings of the First Interdisciplinary CHESS Interactions Conference", World Scientific Publishing, London, UK

Kouzmenko A.P., Ohtake F., Fujiki R., Kato S. – Epigenetic Modifications in Vitamin D Receptor Mediated Transrepression. – In: *Vitamin D, 3d edition* (Pike J.W., Feldman D., Adams J. Eds) Elsevier (San Diego, CA) 2010, In Press

### 2009

Goosen, M.F.A., 2009 "The Environment, Sustainable Development and Human Wellbeing: An Overview", in: Goosen, M.F.A., E.N. Laboy-Nieves, F.C. Schaffner & A.H. Abdelhadi, Environmental Management, Sustainable Development and Human Health, CRC Press/Balkema, PP 3-12.

Goosen, M.F.A., S.K.S. AL-Hinai, S. Sablani, Y.Taniguchi & H. Okamura 2009 " Membrane Fouling and Cleaning in Treatment of Contaminated Water ", in: Goosen, M.F.A., E.N. Laboy-Nieves, F.C. Schaffner & A.H. Abdelhadi (eds), Environmental Management, Sustainable Development and Human Health, CRC Press/Balkema , pp 503-512

Swazo, N.K. 2009. From Crisis to Renovation: Hwa Yol Jung's Contribution to Political Theory. In: Jin Y. Park (ed), *Comparative Political Theory and Cross-Cultural Philosophy: Essays in Honor of Hwa Yol Jung*. Lanham: Lexington Books.

### 2008

Butler, T. 2008. Yersinia pestis. In: www.antimicrob.org. EMPIRIC Antimicrobial Therapy and Vaccines. Volume I. Microbes. Ed: Yu VL, Raoult D. ESun Technologies.

Goosen, M.F.A., Sablani, S.S., and Roque, R., 2008. "Membrane Fouling: Recent Strategies and Methodologies for its Minimization", in: Pabby et al (eds) Handbook of Membrane Separations, Marcel Dekker. Pt 11, pp 325-341.

Hull, S. Introduction, and Chapter One: 'Editing Elia: Lamb, the London, and the Essayistic Figure', in Simon Hull, ed., *The British Periodical Text, 1797-1835* (Tirril: Humanities E-Books, 2008), pp. 7-19, 20-36.

Swazo, N.K. 2008. "Chapter IV: 'A Chance to Do the Science Right': Evaluating the Ethics of the Genographic Project," in: Viktor T. Koven, ed., *Population Genetics Research Progress* (NOVA Science Publishers), pp. 123-149

## Letters

### 2010

### 2009

Al Ras, A.O. and B.H.J. Juurlink. 2009. Renaming gastrocnemius to biceps tibialis. *Clinical Anatomy* 22:640.

### 2008

Butler, T. 2008. Loperamide for the treatment of traveler's diarrhea: broad or narrow usefulness? Editorial Commentary. *Clin. Infect.Dis.* 47:1015-6.

## Conference Papers

### 2010

Dechene, D., S. Primak, and A. Shami, 2010. "On the First and Second Order Statistics of Sparse MIMO Channels," *25th Queen's Biennial Symposium on Communications*, May

Javaher S., Haghighi, D. Dechene, S. Primak, A. Shami, and X. Wang, 2010. "On Energy Efficiency of Pilot Assisted Modulation Schemes," *33rd IEEE Sarnoff Symposium 2010*, New Jersey, April

Karam, J., 2010. *Various Speech Processing Techniques for Multimedia Applications*, 9th WSEAS Int. Conf. on Signal Processing, Robotics and Automation (ISPRA '10), University of Cambridge, UK, February 20-22.

Karam J., and Al-Mallah, O. 2010. *On Commutative and Nil - Semiclean Rings*, American Conference on Applied Mathematics, Harvard University, Cambridge, USA, pp: 127 – 130, January 27-29.

### 2009

Ahmed, R., N. Faisal, S. M. Knupfer, A. Paradowska, M. Fitzpatrick, K. A. Khor<sup>4,f</sup> and J. Cizek, 2009. "Neutron Diffraction Residual Strain Measurements in Plasma Sprayed Nanostructured Hydroxyapatite Coatings for Orthopaedic Implants", The 5th International Conference on Mechanical Stress Evaluation by Neutrons and Synchrotron Radiation, Japan.

Ahmed, R., N. Faisal, R. L. Reuben, A. Paradowska, M. Fitzpatrick, J. Kitamura and S. Osawa, 2009. "Neutron Diffraction Residual Strain measurements in Thermally Sprayed Alumina Coatings Deposited Via Air Plasma and High Velocity Oxy-Fuel Techniques", International Conference on Neutron Scattering, Tennessee, USA, May.

Alamyane A. A. and A. A. Mohamad, 2008. Simulation of Forced Convection in Channel with Extended Surfaces by Lattice Boltzmann Method, Int. Conf. on Mesoscopic Methods in Engineering and Science, June 16-20, Amsterdam, The Netherlands.

Al-Kattan, K., 2009. Clinical Use of Combined PET/CT in Recurrence of Thymoma, Society of Thoracic Surgery, San Francisco, California, USA, 26 – 28 January.

Dechene, D., and A. Shami, 2009. "Experimental Triple-Play Service Delivery Using Commodity Wireless LAN Hardware," *IEEE ICC 2009*, Germany, June.

Erlangga, Y.A., E. Turkel, 2009. Iterative scheme for higher order discretizations to the exterior Helmholtz equation, The 8th International Conference on Spectral and High Order Methods (ICOSAHOM), Trodheim, Norway.

Juurlink, B.H.J. 2009. Fumbling towards ecstasy: A journey to understand a small corner of the universe. Editors: C. Rangacharyulu and E. Haven, "Proceedings of the First Interdisciplinary CHES Interactions Conference", 18 pp, World Scientific Publishing, London, UK, in press

Kanabar, P.M., M. G. Kanabar, W. El-Khattam, T.S. Sidhu, A. Shami, 2009. "Evaluation of communication technologies for IEC 61850 based distribution automation system with distributed energy resources," *IEEE Power & Energy Society General Meeting, 2009. PES '09*

Laboy, E. Schaffner, F. Abdelhadi A. & Goosen, M. 2009. "Env Management Sustainable Development and Human Health" ICPQR 2009 19-23 October Alexandria, Egypt

Meerja, K., and A. Shami, 2009. "Theoretic Perspective of a Wireless Media Access Control Scheme for Small Contention Window Sizes," *Proceedings of ISTA 2009, Kuwait, March.*

## 2008

Al-Kattan, K., 2008. Surgery for Multi-Segmental Bronchiectasis, STS, Riyadh, Saudi Arabia, 18 – 20 March.

Al-Kattan, K., 2008. Plasmapheresis before Thymectomy in Myasthenia Gravis Routine vs. Selective Protocol, 22nd Meeting of European Association of Cardiothoracic Surgery, Lisbon, Portugal, 13 – 17 September

Bai, X., A. Shami, and S. L. Primak, 2008. "Optimal Power Control over Fading Channel with Cross-layer Performance Constraints," *Proceedings of IEEE International Conference on Communications (IEEE ICC) 2008, Beijing, China.*

Gallardo, J. R., Sarai C. Cruz, D. Makrakis, A. Shami, 2008. "Analysis of the EDCA access mechanism for an IEEE 802.11e-compatible wireless LAN," *IEEE ISCC 2008, July, Marrakesh, Morocco.*

Luccini, M., S. Primak, and A. Shami, 2008. "On the Capacity of MIMO Channels and Its Effect on Network Performance," *3rd International Conference on Information and Communication Technologies: From Theory to Applications, (ICTTA 2008), April, Damascus, Syria.*

Kuzmin A. and A. A. Mohamad, 2008. Multirange Multi-Relaxation Time Shan-Chen Model with Extended Equilibria, Int. Conf. on Mesoscopic Methods in Eng & Sci, June 16-20, Amsterdam, The Netherlands.

Mohamad, A. A., 2008. Meso and Macro-Scales Fluid Flow Simulations with Lattice Boltzmann Method, The 4th Int. Symp. On Fluid Machinery and Fluid Engineering, Nov. 24-27, Beijing, China, pp. 27-32, (invited paper).

Rabi J. and A. A. Mohamad, 2008, Simulation of zero-order transport problems using Lattice-Boltzmann Method: imposition of periodic boundary conditions or suppression of streaming step, 17<sup>th</sup> Int. Conf. on the Discrete Simulation of Fluid Dynamics, August 4-8, Florianopolis, Brazil.

Salehabadi, M., M. Jin, J. Yang, H. Haghghi, R. Ahmed and B. Tohidi, 2008. "Finite Element Modeling of Casing in Gas Hydrate Bearing Sediments", SPE Conference.

Ummah, K., P.U. Witadi, Y.A. Erlangga, 2008. Waveform tomography with frequency-domain iterative Helmholtz solver, with case study in reflection seismology with small offset, Indonesian Association of Geophysicists (HAGI) Meeting, Bandung, Indonesia.

## Conference Abstracts

### 2010

Bernhard H.J. Juurlink. 2010. X-irradiation results in ultraviolet light generation: Possible explanation of x-ray bystander effect? International Conference on Radiation Medicine: Clinical Applications and Innovative Approaches. March 1-4, 2010, King Faisal Specialist Hospital & Research Centre Riyadh, KSA.

Bernhard H.J. Juurlink, Tsun-Kong Sham, L. Dean Chapman, Brian Brewer and Ramaswami Samminaiken. 2010. Can the bystander effect be explained by UV light given off by tissues following x-irradiation? Conjoint Meetings of Biology and Synchrotron Radiation (BSR) and Medical Applications of Synchrotron Research (MASR). February 15-18, 2010, Melbourne, Australia.

Sheldon Wiebe, Bernhard H.J. Juurlink, David Cooper, Zhong Zhong, Ivan Nesch, Edwin Zhang, Brayden Sauve, Dean Chapman 2010. Diffraction Enhanced Imaging Studies to Develop an Animal Model for Growth Plate Fracture. Conjoint Meetings of Biology and Synchrotron Radiation (BSR) and Medical Applications of Synchrotron Research (MASR). February 15-18, 2010, Melbourne, Australia.

Chris Hall, Elisabeth Schultke, Ralf Menk, Fulvia Arfelli, Bernhard H.J. Juurlink and Alberto Astolfo. 2010. Progress in cell marking for synchrotron x-ray computed tomography. Conjoint Meetings of Biology and Synchrotron Radiation (BSR) and Medical Applications of Synchrotron Research (MASR). February 15-18, Melbourne, Australia.

Michèle M. Cowan, Karam Mazen Hamweyah, Mohamed Diya Sabbagh, Bakr Ayman Swaid, Abdulaziz Khaled AlKattan, Paul Ganguly. 2010. Persistent bilateral sciatic arteries: a rare finding of teaching importance. Section of Anatomy, College of Medicine, Alfaisal University, Riyadh, Kingdom of Saudi Arabia. 52<sup>nd</sup> Annual World Congress ICA, October 13-19, Lexington. Kentucky USA.

Cummings, CC, Rodriguez J, Sadowski B, Hodges B, Rajab MH. 2010. Polypropylene vs. Polyester Mesh in The Lichtenstein Hernia Repair. Invited Presentation. The 15<sup>th</sup> Annual HMO Research Network Conference. March 22-24, Austin, Texas.

### 2009

Chavez H, Rajab MH, Kuykendall SJ, Bird ET, Wagner KR, Jenkins ER, and Coffield KS. 2009. Incidence of Foley Catheter Related Urethral Injury in A Tertiary Referral Center. South Central Section AUA, Inc. 88th Annual Meeting, Camelback Inn, Scottsdale, Arizona October 14.

Cummings CC, Rajab MH. 2009. Evaluating the Status of Translating Research Into Practice at a Major Academic Healthcare System. Presented and the Health Maintenance Organization Research Network. PA. March.

Erlangga, Y.A., F. J. Herrmann, 2009. Seismic waveform inversion with Gauss-Newton-Krylov method, The 79th Society of Exploration Geophysicists (SEG) Technical Program: Expanded Abstract, Houston, CD ROM.

Erlangga Y.A. and F.J. Herrmann, 2009. Migration with implicit solvers for the time-harmonic Helmholtz equation. The 71st European Association of Geoscientists and Engineers (EAGE) Meeting: Expanded Abstract, Amsterdam.

Herrmann, F.J., Y.A. Erlangga, and T.T.Y. Lin, 2009. Compressive sensing applied to full-waveform inversion. The 71st European Association of Geoscientists and Engineers (EAGE) Meeting: expanded abstract, Amsterdam.

Herrmann, F.J. , Y.A. Erlangga, and T.T.Y. Lin. 2009. Compressive-wavefield simulations. The 8th International Conference on Sampling Theory and Applications (SAMPTA), Marseille

Marchessault, Wild, Hix-Hernandez, Rajab MH, Beaver D, Shabahang M. 2009. Validation of POSSUM as a Measure of Postoperative Morbidity Following Pancreatic Surgery. Accepted for oral presentation by The Society of Surgical Oncology, Phoenix AZ, March.



McNeal C, Mahjoobi M, Kjar D, Rajab MH, Erwin JP. 2009. Guidelines Based Adherence of Aspirin Use: Results from a Self-Reported Web Based Survey. Presented at the American Heart Association.

Shabahang M, Dragoo DM, Wiatrek RL, Ashley P, Song J, Rajab MH, Neese P, Montgomery M, Wong L., 2009. Hepatocellular carcinoma (HCC): An Institutional Review. Presented at the Gastrointestinal Cancers Symposium. San Francisco, CA. January.

Wehbe-Janeck H, Pliego J, Villamaria FJ, Rajab MH, Sheather S. 2009. Simulation-Based Training Promotes Rapid Response Team Utilization. Accepted for oral presentation by the International Meeting for the Society for Simulation in Healthcare, January.

Yaqinuddin A, Qureshi SA, Abbas F, 2009. "Frequent hypermethylation of RASSF1A and APC in Prostate cancer of Pakistani origin" Urology (Presented in SIU).

## **2008**

Al Bakri, A. 2008. Safety Strategies. Paper presented in the PRI Conference, PRI, Abu Dhabi, UAE. November.

Erlangga, Y.A., F.J. Herrmann, 2008. An iterative multilevel method for computing wavefields in frequency-domain seismic inversion, The 78th Society of Exploration Geophysicists (SEG) Technical Program: Expanded Abstract, Las Vegas.

Lin, T.T.Y., E. Lebed, Y.A. Erlangga, F.J. Herrmann, 2008. Interpolating solutions of the Helmholtz equation with compressed sensing, The 78th Society of Exploration Geophysicists (SEG) Technical Program: Expanded Abstract, Las Vegas.

Yu T. and Yisang Yoon. 2008. Mitochondrial morphology is an active factor regulating mitochondrial function. *Molecular Biology of the Cell* 19 (Suppl), 2008. Presented at 48th Annual Meeting of the American Society for Cell Biology, San Francisco, Dec 13-17, USA.

Yu, T., Shey-Shing Sheu, James L. Robotham, Yisang Yoon. 2008. Mitochondrial fission participates in overproduction of reactive oxygen species and cell injury in hyperglycemic conditions. Presented at Mitochondrial Biology in Cardiovascular Health & Diseases Conference. October 6 and 7. National Institutes of Health, Bethesda, Maryland, USA.

Yu, T., Shey-Shing Sheu, James L. Robotham, Yisang Yoon. 2008. *Mitochondria* 9(1): 72, 2009. Oral presented at Indy 2008: Setting the Pace in Mitochondrial Medicine Scientific Meeting. June 25-28, 2008 in Indianapolis, Indiana, USA.

## **Invited Speaker**

### **2010**

Alkattan, A. K. 2010. Measuring the Hippocampus and its Relation to Alzheimer's Dementia. The 7<sup>th</sup>. Scientific Conference for Medical Students in the GCC Countries. Jeddah, Kingdom of Saudi Arabia, February 13-16.

AlKattan, K. 2010. Chair, Scientific Session 1: 'Upper GI / Thoracic Surgery' 1<sup>st</sup> Saudi Surgical Research and Resident's Day, Four Seasons Hotel, Riyadh, Saudi Arabia, 04 February.

Al Mahmoud, A. F., Abuzaid, A. M., Abbrar, M. S., Nurhussen, A., Al Amoudi, A. and Rajab, H. 2010. Impact of the Early Islamic Era on Medical Accountability. The 7<sup>th</sup>. Scientific Conference for Medical Students in the GCC Countries. Jeddah, Kingdom of Saudi Arabia, February 13-16.

Ganguly, P. 2010. 'Cardiovascular Research-Middle East Experience' St Boniface General Hospital Seminar Series, April 19.

Ganguly, P. 2010. Invited to give three lectures in neuroscience at King Faisal Specialty Hospital and Research Centre, February.

Juurlink, B.H.J. 2010. Clinical research/basic research; bridging the divide. Department of Cardiology, King Faisal Specialist Hospital and Research Centre, Jeddah, KSA, June 23, 2010.

Juurlink, B. H. J. 2010. Seminar at KACST (March 2) entitled "Novel use of x- rays to track and treat cancers".

Juurlink, B. H. J. 2010. Hippocrates, 2010. 'Dictum and The Clash Between Public Good and Private Good as well as the Clash Between Individual Risk and Societal Benefit'. Third European conference Scientific Publishing in Biomedicine and Medicine. Leiden, the Netherlands, May 27-29.

Juurlink, B. H. J. 2010. 'X-irradiation results in ultraviolet light generation: Possible explanation of x-ray bystander effect?' International Conference on Radiation Medicine: Clinical Applications and Innovative Approaches. March 1-4, King Faisal Specialist Hospital & Research Centre Riyadh, KSA.

Juurlink, B. H. J. 2010. 'Can the bystander effect be explained by UV light given off by tissues following x-irradiation?' Conjoint Meetings of Biology and Synchrotron Radiation (BSR) and Medical Applications of Synchrotron Research (MASR). February 15-18, Melbourne, Australia.

Juurlink, B. H. J. 2010. 'Fumbling Towards Ecstasy' presented at the CHESS Interactions Conference organized by the University of Leicester, University of Saskatchewan and Växjö University held August 17-21, Saskatoon, Saskatchewan, Canada.

## 2009

AlKattan, K. 2009. Research Advisory Council, Co-Investigators, 'Advances in Non-Small Cell Cancer, Multi Centric European Study with King Faisal Specialist Hospital & Research Centre, 2009.

AlKattan, K. 2009. Broncho-Plueral Fistula, Advances in Thoracic, Surgery, 'Advances in Thoracic Surgery', Bromton Hospital – London, UK, 05 – 06 November.

AlKattan, K. 2009. Speaker, Medical Education Club, Lecture: 'Student Centered Education' Riyadh, Saudi Arabia, Riyadh, Saudi Arabia, 05 May.

AlKattan, K. 2009. Speaker, 2nd International Conference Clinical Oncology, 'Update Lung Cancer Staging' Riyadh, Saudi Arabia, 02 – 04 May.

AlKattan, K. 2009. Speaker, 3<sup>rd</sup> RMH Symposium Update in Surgery, 'Surgery for Active TB' 28 – 30 March, Riyadh, Saudi Arabia.

Al Kattan, K. 2009. Speaker, 51<sup>st</sup> International Egyptian Society of Chest Diseases and TB, 'Role of Surgery in TB'. 24 – 27 March, Cairo, Egypt

Al Kattan, K. 2009. Chairman, 7<sup>th</sup> Saudi Thoracic Society, Riyadh, Saudi Arabia, 17 – 19 March.

Al Kattan, K. 2009. Advances in *Non-Small Cell Cancer, Multi Centric European Study*, King Faisal Specialist Hospital & Research Centre.

Al Kattan, K. 2009. Clinical Use of Combined PET/CT in Recurrence of Thymoma, Society of Thoracic Surgery, San Francisco, California, USA, 26 – 28 January.

Erlangga, Y.A., 2009. Algebraic multilevel Krylov methods, Pacific Northwest Numerical Analysis Seminar, Vancouver, September 26

Ganguly, P. 2009. 'The auditory pathway (structure and function)', Monday November 16, at New training Centre, KFSH&RC.

Ganguly, P. 2009. 'The visual Pathway (structure and function)' Wednesday November 18, at New training centre, KFSHR.

Ganguly, 2009. 'Practical (Lab activities)' Wednesday December 16<sup>th</sup>, KFSH&RC/Alfaisal University.

Juurlink, B. H. J. 2009. 'Dietary Phase 2 Protein Inducers (P2PIs) To Ameliorate Aging-Related Disease' presented at the Third International Conference on Disability Research held March 22-26, Riyadh, KSA.

Juurlink, B. H. J. 2009. Seminar at Alfaisal University (December 9) entitled "Rage, rage, against the dying of the light".

Khraibi, A. 2009. 'Renal Function in Normal Pregnancy'. KACST-Natural Resources & Environmental Research Institute (NRERI) / Alfaisal University Seminar Series. Riyadh, Kingdom of Saudi Arabia, December 29.

Khraibi, A. 2009. 'Initiation and Nerve Conduction of Impulses, and Transmission of Impulses Across Junctions'. King Faisal Specialist Hospital and Research Center, Training and Development Center – Neurophysiology Technology Program October 31-November 2. Riyadh, Kingdom of Saudi Arabia.

Khraibi, A. 2009. Renal Function Adaptations to Normal Pregnancy. Medical Grand Rounds, King Faisal Specialist Hospital and Research Center. Riyadh, Kingdom of Saudi Arabia, June 15.

Kharabi, A. 2009. Renal Function in Normal Pregnancy. KACST-Natural Resources & Environmental Research Institute (NRERI) / Alfaisal University Seminar Series. Riyadh, Kingdom of Saudi Arabia, December 29

Yu, T. 2009. 'Mitochondrial dynamics and reactive oxygen species during diabetes'. May 6, Brigham and Women's Hospital, Harvard Medical School, Boston, MA, USA.

Yu, T. 2009. CABA 2009 'Medical Device & Diagnostics Symposium'. December 5. Massachusetts Institute of Technology (MIT), Cambridge, MA, USA.

## **2008**

Erlangga, Y.A, 2008. Multilevel Krylov-Multigrid Method for the 2D Indefinite Helmholtz Equation, Householder Meeting XVII, Zeuthen, Berlin, June 1-6

## **Conferences/Symposia/Workshops Attended**

### **2010**

Khraibi, A. 2010. 7<sup>th</sup>. Scientific Conference for Medical Students in the GCC Countries. Jeddah, Kingdom of Saudi Arabia, February 13-16.

AlKattan, K. 2010. 5<sup>th</sup> Annual General Surgery Conference, King Khalid University Hospital, 06 – 08 February.

### **2009**

Al-Kattan, W. 2009. Macy Program, Diploma Program for Educators and Health Care Professionals, Harvard Macy Institute, Boston, USA, January.

Butler, T. 2009. 14<sup>th</sup>. World Diabetes Day. Riyadh, Kingdom of Saudi Arabia, November 12.

Ganguly, P. 2009. 4<sup>th</sup>. World Diabetes Day. Riyadh, Kingdom of Saudi Arabia, November 12.

Juurlink, B. 2009. 14<sup>th</sup>. World Diabetes Day. Riyadh, Kingdom of Saudi Arabia, November 12.

Khraibi, A. 2009. 14<sup>th</sup>. World Diabetes Day. Riyadh, Kingdom of Saudi Arabia, November 12.

Rajab, M. H. 2009. 14<sup>th</sup>. World Diabetes Day. Riyadh, Kingdom of Saudi Arabia, November 12.

Swazo, N.K. 2009. Ethical and Policy Issues at the Cutting Edge of Stem Cell Science, Case Western Reserve University School of Medicine and Harvard Stem Cell Institute, 15-19 June.

Yu, T. 2009. 14<sup>th</sup>. World Diabetes Day. Riyadh, Kingdom of Saudi Arabia, November 12.

## **2008**

Swazo, N.K. 2008. First Meeting of the Eastern Mediterranean and Arab Forum on Bioethics in Research. Cairo Egypt, 12-14 August.

## **Technical Reports**