



كلية الهندسة  
College of Engineering  
QATAR UNIVERSITY جامعة قطر

# al-Imara

# العمارة

Newsletter of the Department of Architecture and Urban Planning

[www.qu.edu.qa/engineering/architecture/](http://www.qu.edu.qa/engineering/architecture/)

Volume 1, Issue 2 | Summer 2018

## 9<sup>th</sup> Architecture Day in DAUP

The Department of Architecture and Urban Planning at Qatar University holds an annual Architecture Day event in the Spring semester of every academic year. The Architecture Day is a celebration and showcase of the students' work. It is an open day for the department where students get to interact with each other, accept praise for their projects, and share energy and activity in the various programs of the day. The day usually hosts an exhibition of students works from various courses and years as well as interactive programs and enriching live discussions/presentations. The focus is always pointed towards the outstanding design projects of our students as well as other material displaying their skills and abilities to generally portray what architecture is really about in today's world.

Architecture Day is also an opportunity for the students to interact with the College of Engineering community and the outside world. Many practitioners from renowned offices in Qatar are invited to meet with our students, witness their achievements, and understand their outlook. In this year's 9<sup>th</sup> edition on May 10<sup>th</sup>, Architecture Day is organized around the theme of MADE IN QATAR. Students have been always encouraged to produce design projects with the notion of locality and sustainability in mind. The exhibited works and activities of the day shall revolve around this idea. The agenda of the day will soon be officially announced and communicated.

The 8<sup>th</sup> Architecture Day held in Spring 2017 was very successful in attracting applause and appraisal

for our program, organization, and students. The day hosted an exhibition of student work, QU-AIAS organized a number of student competitions, and there were interactive panel discussions. The panel discussion was titled "Architecture Practice and Education in the 21st Century" moderated by Dr. Raffaello Furlan and included a number of professional architects, educators, and a MUPD student such as Architect Ibrahim Al-Jaidah of AEB, Architect Fatima Fawzi of Msheireb Properties, Professor Attilio Petruccioli and Dr. Fodil Fadli of Qatar University, Professor Massimo Tadi of Polytechnic di Milano, and Architect Heba ElGahani from the MUPD program in the DAUP. It was a vibrant discussion, which captured the attention and interaction of the entire audience.

We are looking forward to seeing you at this year's edition of Architecture Day. Save the date: May 10, 2018!



Group photo during the 8<sup>th</sup> Architecture Day in Spring 2017.





# From the Head of Department



Welcome to the second issue of *al-Imara*! We had a very successful inaugural issue of the DAUP newsletter, which received many welcoming and pleasant comments.

The Department of Architecture and Urban Planning (DAUP) has completed its third and final visit as part of its Substantial Equivalency Designation process as framed by the National Architectural Accreditation Board (NAAB). The preparations for the visit were very tense and the whole DAUP family [students, faculty, and staff] went through stressful time, yet considered as a very positive developmental experience. Indeed, we can sense that it will pay off good results. We are expecting a detailed recommendation report with a final decision regarding the visit outcomes by the end of this semester. The visit was a major highlight of this academic year and an important cornerstone in the development of the department. The whole process and preparations took countless hours and hard work, and I would like to sincerely appreciate that and thank all the team members who were involved from far or close in this. We would like also to thank the College of Engineering and Qatar University for their support and encouragement.

Another highlight of the year is the DAUP 9th Architecture Day to be held on the 10th May. This important annual departmental event takes place each end of spring semester, to showcase and celebrate the works of our students and faculty through the closing year. It is a celebration full of energy and interaction between the architectural academia and industry, between the department and the community overall. We encourage you all to attend and participate in this event to make it fruitful and enriching.

Enjoy that day... and enjoy this issue of *al-Imara*!

*Dr. Fodil Fadli*  
1 May 2018

## ABOUT THIS ISSUE OF *AL-IMARA*

# From the Editor



Welcome back!

After its delightful and pleasing inaugural issue, *al-Imara* is coming back to you with more ideas to reflect, and more projects to inspect. This issue focuses on the updates and highlights of the department, featuring the 9th Architecture Day on May 10th, the recent visit by the NAAB Team, and the enthusiastic members of the relaunched QU-AIAS. This newsletter should always be a platform to praise and celebrate the achievements and works of our department, especially our students! If you see a misaligned photo, a misplaced line, or a non-capitalized letter; know that you should join our team. Enjoy this issue!

*Architect Heba Elgahani*  
1 May 2018

**al-Imara** العمارة  
Newsletter of the  
Department of Architecture and Urban Planning

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Dr. Mark David Major (Chair), Dr. Madhavi Indraganti,  
Sultana Al-Nabet, Heba Elgahani.

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## UPCOMING EVENTS

Public Lecture #2

**Monday, 7 May 2017**

**12:30-1:30 pm**

CENG, C07-178

*Building Information Modeling for Tomorrow's Professional*

Dr. Ahmad Mohammed Ahmad

9<sup>th</sup> Architecture Day

**Thursday, 10 May 2017**

Public Lecture #3

**Monday, 14 May 2017**

**12:30-1:30 pm**

CENG, C07-178

*Thermal Delight in Architecture: Are We Missing a Vital Link Now?*

Dr. Madhavi Indraganti

End of the Teaching Semester

**Thursday, 31 May 2017**

Final Exam Period

**Sunday, 3 June 2018 – Wednesday, 13 June 2018**

Eid Al-Fitr Holiday

**Thursday, June 14 2018 – Saturday, 23 June 2018**

End of the Spring Semester

**Thursday, 28 June 2018**

*Stay tuned for more event announcements!*

## GET TO KNOW

# The QU-AIAS President

*A discussion with the newly elected QU-AIAS president, Maryam Badr Al-Kuwari, where asked her three questions to get to know her better.*

Maryam Badr Al-Kuwari is a student in her fourth year on the Bachelor of Architecture program. She was elected to become the second president of the QU-AIAS in March 2018.



### Who is your role model as an architecture student?

Actually, most of my colleagues choose to have "international" architecture role models, whom they have been inspired by or learned about, but I have a tendency to look more toward the local or regional architecture role models. The Kuwaiti architects Bashar Al-salem, owner of Kayan Architects, and Architect Sarah Sadeq, owner of Sarah Sadeq firm, are my current role models. This is because they work with a philosophy that is rooted in our culture, history, and tradition.

### How is your experience as a student at Qatar University?

At first, it was difficult and I faced many struggles. The long hours at studios, the amount of mental and physical effort, the deadlines, and professors' pressure were difficult to take at first. But with time I learned to take advantage and use these challenges help my colleagues and myself. We finally realized that sharing experience is the best way to survive!

### What are you passionate about?

I am passionate but my goals and visions for the coming year, and about "being the change" as Dr. Ouahrani once said. I am passionate about serving my country and believing that one day me and my colleagues will run one of the biggest firms in Qatar.



Head of Department Dr. Fodil Fadli presenting in the Traditional Gulf Architecture Week, which was held on 22-25th April 2018, in QNL, Doha.



## TEACHING FOCUS

# Seniors Strive Towards AEB Prize

DAUP Seniors are working feverishly towards the deadline to submit on 3 May 2018 for the new AEB Architecture Excellence Award. Recently, AEB's Group CEO and Chief Architect Ibrahim Mohamed Jaidah invited senior students at the Qatar University Department of Architecture and Urban Planning to register and submit their design projects for the inaugural AEB Architectural Award.

For almost half a century AEB has been actively involved in designing landmark buildings, taking great pride in past accomplishments and looking forward to the future challenges. The story of AEB is told through its clients, employees and the communities in which they practice. AEB is constantly building on pioneering work and consolidating long-term commitment to the future development of the region. AEB is inspired to take on new business challenges that enable the firm to expand regionally and internationally.

AEB aims to recognize the excellence in design and education and showcase exceptional approaches to architectural design. Further, their goal is to promote and share architectural experience and knowledge among young architects and academics. AEB celebrates those students who push boundaries and set new standards. AEB recognizes that excellence in architecture goes far beyond practical buildings. The awards were instituted by Jaidah to encourage and assist graduating students as they start their careers as architects in Qatar. Jaidah is recognized as a pioneer of a new architectural movement that combines the far-reaching influences of Islamic art with modern styles to create memorable landmark structures that are shaping developing the State of Qatar. AEB believes that great architecture is about creating long-lasting designs that will remain for generations while inspiring people and enriching their lives. Innovative buildings, designs, and landscapes can help reform the way we live our lives for the better and enable us to make the most of the space we have.

This award recognizes exceptional architectural innovation of young architects in Qatar. All entries

will be reviewed by an independent jury that will select the winners. The criteria of evaluation for the independent jury include: being able to interpret the quality of the materials presented based on clarity of text, drawings, and photographs with suitable references, notes or other forms of identification as required. Lack of clarity diminishes the Jury's ability to fairly compare and evaluate nominees; the degree of resolution of all required aspects and details of the project; complexity of the project; ingenuity in the communication of ideas and development of the construction documents; architectural and conceptual idea; environmental and economic sustainability; contribution to the public realm or environment; extent of innovation and originality; use of materials and structural details; and the ability to inspire and endure as an exemplary work of architecture.

The Jury will be appointed by the QU Department of Architecture and Urban Planning including one representative from AEB, which will select the winning Young Architects qualified for the prize and it will forward its decision back to DAUP for announcement of 1st, 2nd and 3rd Prize for the award during the 9th Architecture Day on 10 May 2018. The Group CEO and Chief Architect of AEB, Ibrahim Mohamed Jaidah, will present the awards to the winning students and the winning designs will be exhibited as part of the Architecture Day celebrations at Qatar University.



*Seniors hard at work in the design studio before the submission date for the AEB Architecture Excellence Award.*



## STUDENT FOCUS

# QU-AIAS Association in the DAUP!

By Maryam Al-Nuaimi, Secretary of the QU-AIAS

The QU-AIAS held a couple of exciting events after the election of the new president and the registration of the new members. The Association aims to hold events that create an exciting and engaging atmosphere for all students in Department of Architecture and Urban Planning.

On the first week of April the QU-AIAS held its first formal events; a Coffee Day, and a Movie Day, as a welcoming events for its new members. The Coffee Day event was on Monday 2nd of April, where students gathered in the 1st floor in DAUP during the common break time to have a little getaway



from studio work and get to know their fellow AIAS members. Many students and faculty members have commented on the coffee break being a nice idea. "It is nice seeing the students gathered somewhere outside of studio talking, having treats and playing games. It is good for them to leave the stress of studio behind for a little while and just relax and have fun." said a member of DAUP faculty. During the event, the winners for the Batch Logo Competition were announced and awarded for their efforts. Each batch has been previously asked to design their own logo.

QU-AIAS also launched its thematic event; the "Architect of the month" event. This event aims to promote students to get to know more about new architects and their inspiring philosophies. A puzzle

containing facts concerning the chosen architect, Toyo Ito, has been pinned up while the puzzle pieces have been scattered all around the department encouraging the students to find them to learn more about the architect. As part of this event, the students have been encouraged to design pieces of furniture inspired from Toyo Ito's philosophy. Their designs will be reviewed in an open jury on DAUP's 9th Architecture day. On Wednesday the 4th of April The QU-AIAS held its movie day. The title chosen was Wonder which was released in 2017. it tells the incredibly inspiring and heartwarming story of August Pullman. The Screening was highly appreciated by the students; "It was a beautiful inspiring story." said one of the Members.



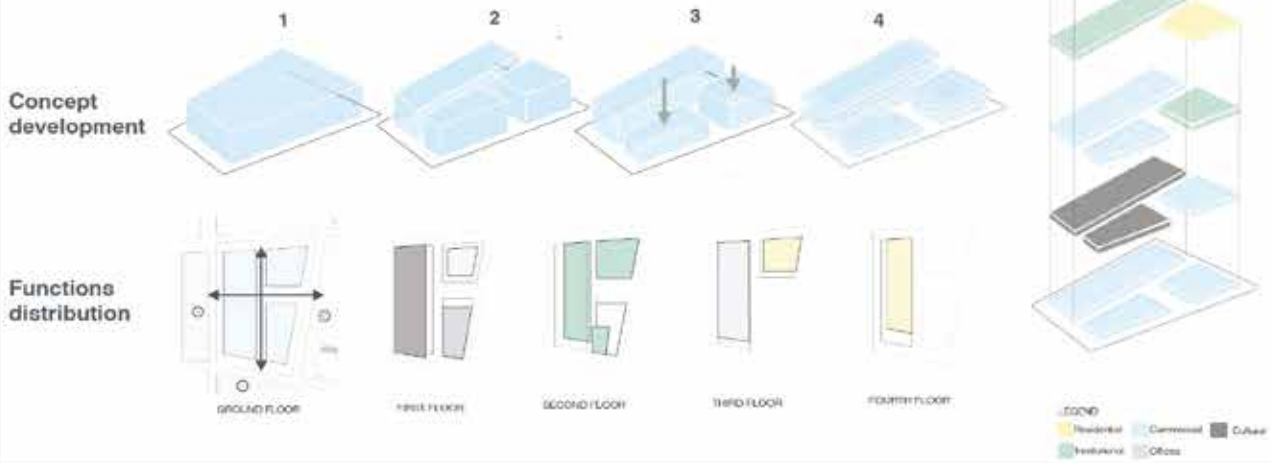
The AIAS will continue to be a provider of learning opportunities, exciting events and activities to the members and the student body to hopefully aspire them to go to greater lengths and to experiment more with their creativity in hopes of further excelling in architectural design.

To become a member of the QU-AIAS and help our organization to grow, please refer to the backpage of every issue of *al-Imara*. The QU-AIAS is all about us, the students, and we need what you uniquely bring to the Department of Architecture and Urban Planning - and Qatar University - in order to continue to build a successful student association by the students for all of the students. We are only as good as our members and that means you! Thank you for supporting the QU-AIAS.

PROJECT FEATURE: COMPREHENSIVE DESIGN FALL 2017

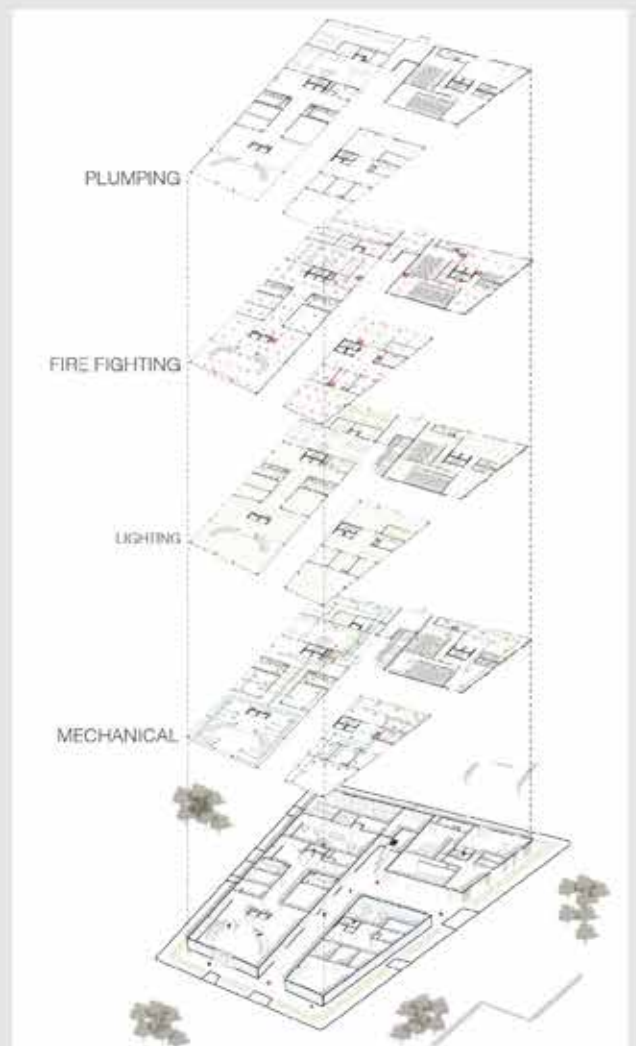
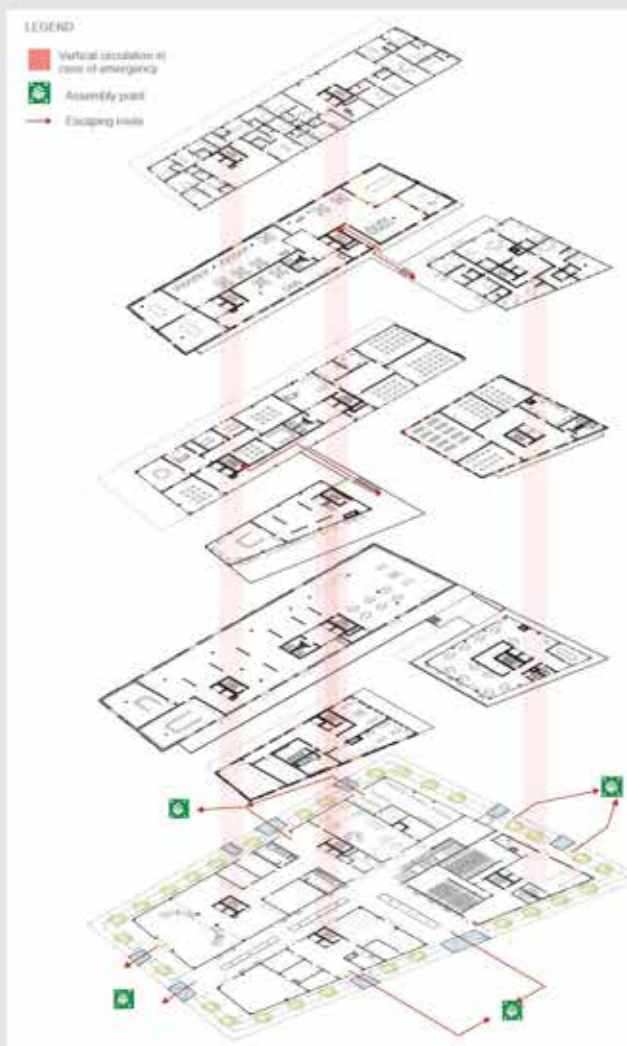
# 24hrs Multimodal Development

void & solid concept or plus and minus play on solids and voids as a defining system for programmatic function. The relationship between void and solids throughout this programmatic organization in turn creates permeable, extroverted, and introverted scenarios. Visitors proceed through a narrative of solid and void spaces and skylights ranging from circulation, indoor and outdoor areas.





**Summary** - This is a design project from the Comprehensive Design Studio. Students in this design studio are expected to master all design aspects and systems integration in the building. The final project outcome must be a full set of detailed drawings of the whole building and its systems. This is the project of **Al-Maha AIYafie**, who is expected to graduate Spring 2018. The project shows an integration of building mass, open and closed spaces, systems, different facade materials, and different uses. Well done, Al-Maha!



## STUDENT WORK

# Hotel Bawabat Al-Doha



**Summary** - Students in Design Studio V Fall 2017 were introduced to urban design problems. The students work first in groups in the urban design stage, then take on individual projects. This is the work of **Nouf Al-Thani**. She has proposed a hotel design in her allocated site within the group. As it is located in the busiest area of Doha, the Old Souq, a hotel project is suitable to attract tourists and generate flow of people in the area.



STUDENT WORK


# Qatar Family Tree

**Projects location :**  
Qatar Rail Metro station (Applicable for all metro station)


**Projects Area :**  
Main stations ( Variable)

**Projects Design proposal :**  
Light weight structure inside of the up-ground metro station


**Ownership type:**  
Private operators based on public participation



The location of the green houses and the accessibility to reach them will be based on the Metro road indirectly let the people understand the advantages using clean transportation system for a cleaner environment.







**Red Line**  
Misheereb station is the largest station in Doha and is situated at the corner of the Misheereb development where Wadi Misheereb and Al Diwan Street meet. Misheereb Station marks the crossing of three metro lines

For the Jamrah Metro Station will be the first point and providing areas to guide the visitors at the wanted events



**Green Line**  
Misheereb Station marks the crossing of three metro lines with the Red Line, Green Line and Gold Line. The station is a multi-level structure with an elevated walkway, pedestrian bridge and connecting to the station platform, escalators and other change throughout the station.



**Red Line** Coast Line  
The Red Line, also known as the Coast Line, runs for about 40 kilometres from Al Wakra in the south to Lusail in the north. The line also connects Hamad International Airport at Terminal 1 to the centre of the city. It has 17 stations with the Legation Station allowing passengers to transfer over to the Lusail Light Rail Transit. The other 16 stations are:

- Al Nassr
- Corniche
- Nadd Sheer
- Doha Exhibition and Convention Centre
- Al Gassab
- Mutairi
- Lusail
- Hamad International Airport
- Qatar University
- Al Doha
- Souk Al-Fortis
- Economic Zone
- Doha Sun Mall
- Al Maryia
- Umm Al-Said
- AL KHAYAT Station




**2** **ENTERTAIN**



**Gold Line** Historic Line  
The east-west Gold (Historic) Line extends from Ras Bu Aboud to Al Autayia. Ten stations run along the Gold Line:

- Ras Bu Aboud
- Qatar National Museum
- Al Wadi
- Al Murooj
- Al Sura
- Jaber
- Al Firdos
- Al Mada
- Al Khayt
- Al Autayia




**3** **RELAX**



**Green Line** Education Line  
The Green Line runs east from Al Rifla to Al Mansour in the west. Because it passes through Education City, the line is also known as the Education Line. There are eight stations

- Al Mansour
- The White Palace
- Hamad Hospital
- Al Mansour
- Al Hayat Al Qadim
- Al Shagaya
- Qatar National Library
- Al Rifla





**4** **LEARN**

**Summary** - This is an Urban Forestry Project as part of the MUPD courses. **Maryam AISuwaidi** has proposed Urban Forestry around the Rail Metro Stations to create a connected network of forestation that serves multiple purposes according to the metro line, and create thematic parks around station according to the destinations of each line. Qatar Family Tree also proposes an app that promotes interaction and environmental awareness.



## PHOTOGRAPHIC FEATURE | ARCHITECTURE IN FOCUS

# Museum of Islamic Art by I.M. Pei

The Museum of Islamic Art (MIA) designed by I.M. Pei occupies an island off of a peninsula near the traditional dhow (wooden Qatari boat) harbor in Doha. A purpose-built park surrounds the building on the east and south while two bridges connecting the main facade of the property. The west and north facades are marked by the harbor showcasing the Qatari seafaring past (Image: Mark David Major).



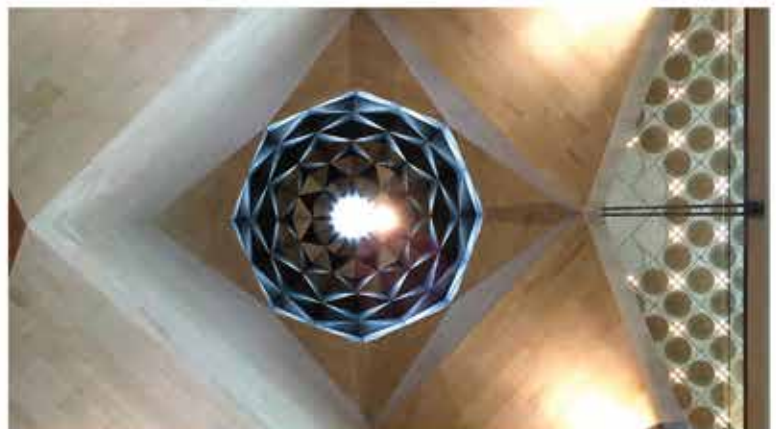
The design of the MIA features monumental arcades and courtyards accentuated by masonry of contrasting earth tones located on the west and north of the island, which successfully manages to feature panoramic (or near-panoramic) views of the entire city of Doha for visitors including one of the most iconic views of the architectural cluster of skyscrapers in the City Center area (Image: Mark David Major).



On the west side of the island, a monumental covered arcade in the design connects the main entryway of the MIA facilities to the museum's library while affording views of Al Souq, one of the oldest area of Doha, across the Al Corniche to the south and Doha Bay/Persian Gulf via a massive outdoor courtyard to the north (Image: Mark David Major)



The interior design of the MIA main building is focused around a massive atrium featuring an intricately patterned skylight famed by the contrasting angles of the building envelope and roof forms. The museum galleries are gathered around this atrium featuring parallel routes allowing circulation internally via the galleries and around the edge of atrium itself including cross-circulation opportunities from one side of the building to the other (Image: Mark David Major).





## RESEARCH FOCUS

# Housing Typologies in Multicultural Societies of the Gulf Region

By Dr. Hatem G. Ibrahim

The project is in collaboration between Qatar University and the University of Strathclyde-UK and is funded by Qatar National research Fund (QNRF) with the objective of 1) Explore the evolution of housing typologies in Gulf cities and their characteristics since the new economic development path has been adopted within the dynamics of socio-cultural transformations, 2) Investigate contemporary housing typologies while mapping them to different lifestyles of a multicultural society within the perspective of socio-cultural and socio-economic groups and 3) Develop scenario-based design recommendations on how future housing developments can meet the continuously changing structures of multicultural societies in Gulf cities. The research stage will synthesize three modules, which is the basis on housing in the multicultural context of Gulf cities.

Further preliminary data for this proposed NPRP project includes residents' movement and behavior in macro-urban contexts as well as in main public spaces. This included a survey of movements within the urban structure from residence to working places, favored leisure spaces and shopping facilities. The observation of public spaces was another significant element in understanding how inhabitants use existing urban environments and if certain areas are avoided or purely used as thoroughfares.

The project provides new insights into the relevance of lifestyle theories to the development of housing in the city of Doha the way in which it can be productively incorporated into the urban evolution of the city and its future aspiration an attractive diverse business hub in the Gulf region. The project results will embrace the necessary data to draft realistic design and planning strategies for a culturally backed housing in key neighborhoods. This attempt to introduce various development scenarios will result in an enhanced understanding of how synergies between multiculturalism and housing development can be established. While various frameworks for analyses are introduced to illustrate the complex factors within housing developments and the trends involved, the drafting of realistic scenarios is an attempt to manifest how the empirical insights can be utilized in developing plans and housing strategies. The results will enable the development of a discourse on the relevance and potentials of the applied methods for investigating housing typological transformations in the context multicultural societies.



Research design, methods, modules, and phases.

## News Bits

**Dr. Fodil Fadli** co-organized the *Traditional Gulf Architecture Week* where he presented and chaired sessions during the *Khaleeji Architecture International Conference* held at the Qatar National Library, 22-25th April 2018, in Doha.

**Professor Kasper Oosterhuis, Dr. Shaibu Garba, Dr. Mark David Major, Dr. Ahmad Mohammad Ahmad and Abdulla Al-Nuaimi** spoke to the Qatari Society of Engineers at the *Green Engineering Conference* held at Katara Cultural Village on 23 April 2018 in Doha. **Dr. Fodil Fadli** was invited to deliver the keynote address at the same conference.

**Dr. Fodil Fadli** and his Research Team are planning to host a workshop on Building Performance and Environmental Impact Assessment during the first half of May 2018 as part of their BioFacades NPRP research project.

**Dr. Fodil Fadli** and his Research Team are planning to host a workshop on Topology Optimization in High-Rise Buildings during first half of May 2018, part of their TopOpt [Topology Optimization] NPRP research project.



# About QU-AIAS

The QU-AIAS is an independent, nonprofit, student-run organization dedicated to providing unmatched progressive programs, information, and resources on issues critical to architecture and the experience of education. The AIAS aims to promote excellence in architectural education, training, and practice; to foster an appreciation of architecture and related disciplines; to enrich communities in a spirit of collaboration; and to organize students and combine their efforts to advance the art and science of architecture. Our mission is advancing leadership, design, and service among architecture students.

QU-AIAS membership supports architecture students in our department but also across the United States and academic programs around the world. QU-AIAS promote excellence in architecture education, and training. Architectural practice is constantly evolving. A large part of that evolution happens in schools. A pedagogy that promotes experimentation and exploration above all. AIAS



members understand their role in the profession as leaders. Not the future of the profession but the now. Programs like Freedom by Design, CRIT and Grassroots mentorship empower students to own that role. We foster an appreciation of architecture, design and related disciplines in departmental events, annual gatherings, and regional conferences, providing students with the opportunity to learn about the issues facing our world, to meet students and professionals with common interests, and to interact with some of today's leading architects and designers.

QU-AIAS enrich communities in a spirit of collaboration through the Freedom by Design™ program and other community outreach, we are

empower our members and students as a whole to be good citizens on their campuses and in their communities. We organize students and combine their efforts to advance the art and policy of architecture by being the sole student voice in the collateral discussion and decision making process that include The American Institute of Architects (AIA), The Association of Collegiate Schools of Architecture (ACSA), The National Council of Architecture Registration Boards (NCARB) and The National Architectural Accrediting Board (NAAB).

## Join QU-AIAS and Get Involved Today!

Annual membership dues are \$60. You can join the QU-AIAS online at <http://www.aias.org/membership/#join>. Follow us on Instagram @aias\_qu.

### YOUR QU-AIAS LEADERSHIP TEAM

President	Maryam Bader Al-Kuwari
Vice President	Aisha Saad Al-Sulaiti
Secretary	Maryam Nasser A J Al-Nuaimi
Treasurer:	Alreem Al-Emadi
<b>Board of Directors</b>	
First Year Rep.	Shaikh Al-Thani
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Fourth Year Rep.	Nancy Makhoul
Senior Rep.	Almaha Alyafei
Graduate Rep.	Fatima Shubar
Past President	Maryam Al-Darwish





The Department of Architecture and Urban Planning (DAUP) cordially invites you to attend:

# 9<sup>TH</sup> ARCHITECTURE DAY

*"Made in Qatar: Making the Difference"*

Thursday, May 10th 2018  
9:00 am - 2:00 pm

College of Engineering Building C07,  
Ground Floor, Main Hall, Female Campus

09:00	Opening and welcoming words
09:45	Announcing the day program
10:00	Opening of the Architecture Exhibition
11:00	The 3Rs Secondary Schools Competition and QU-AIAS Contest
11:30	Discussion panel titled: <i>"Made in Qatar: Making the Difference"</i>
12:30	Announcement of competition winners
12:45	AEB Architecture Excellence Award winners
13:30	Lunch and social gathering



# يوم العمارة التاسع

"صنع في قطر: كيفية إحداث التغيير"

الخميس، ١٠ مايو ٢٠١٨  
٩:٠٠ صباحاً إلى ٢:٠٠ مساءً

كلية الهندسة  
مبنى C07 ، الدور الأرضي، البهو الرئيسي  
قسم البنات

٩:٠٠	الترحيب والكلمات الافتتاحية
٩:٤٥	إعلان برنامج يوم العمارة
١٠:٠٠	افتتاح معرض العمارة
١١:٠٠	بداية مسابقة 3Rs المدارس الثانوية و مسابقة جمعية طلاب قسم العمارة
١١:٣٠	حلقة نقاش بعنوان "صنع في قطر: كيفية إحداث التغيير"
١٢:٣٠	إعلان نتائج مسابقة الطلاب في جامعة قطر
١٢:٤٥	إعلان الفائزين بجائزة التميز المعماري المقدمة من المكتب العربي للشؤون الهندسية
١٣:٣٠	غداء و فرصة للتواصل الاجتماعي





# BUILDING INFORMATION MODELING FOR TOMORROW'S PROFESSIONAL

## DR. AHMAD MOHAMMAD AHMAD

ASSISTANT PROFESSOR OF ARCHITECTURE AND URBAN DESIGN IN THE DEPARTMENT OF ARCHITECTURE AND URBAN PLANNING, AT QATAR UNIVERSITY

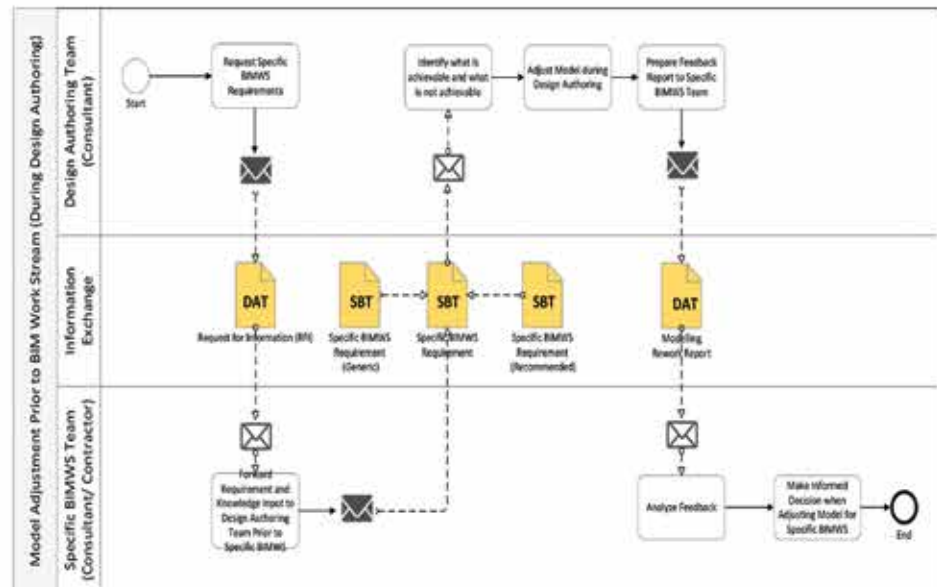
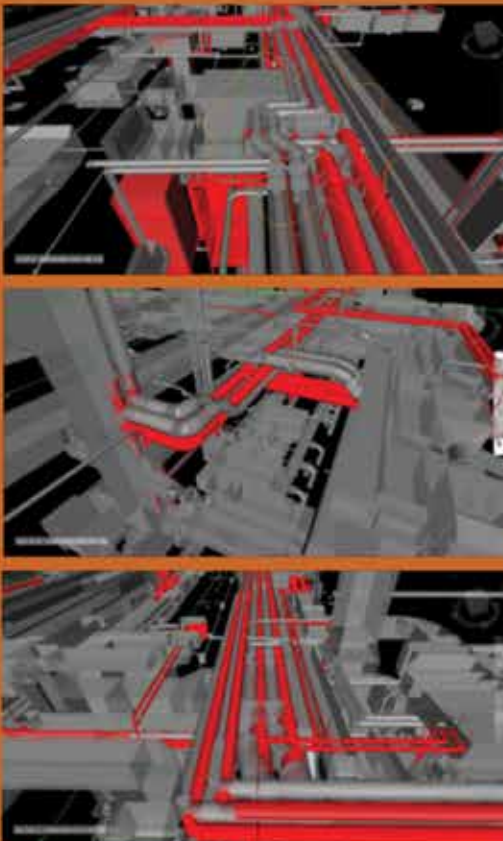
**DAY & DATE:** Monday, 7<sup>th</sup> May, 2018  
**TIME:** 12:30 pm - 02:00 pm  
**VENUE:** CENG, C07 - 178

### ABSTRACT

BIM is undoubtedly effective and efficient towards next generation buildings during design, construction to operational management. However, BIM is viewed as 90% technology and 10% sociology whilst in reality BIM is 90% sociology and 10% technology. People are central to the successful implementation of BIM. They are challenges when there is a higher focus on technology compared to people. BIM is disruptive towards traditional practice. But needs to be integrated and adapted to achieve benefits. BIM needs to be more naturally embedded as common practice. This will lead to a shift from BIM elite to the wider work force.

### AHMAD MOHAMMAD AHMAD

Dr. Ahmad Mohammad Ahmad is an Assistant Professor at Qatar University. He has over 10 years of teaching, research and construction industry experience. His experience includes BIM and innovative design applications in the UK architecture, engineering and construction (AEC) industry. Has a passion for teaching and research. Skilled in the field of sustainable infrastructure, design development, and supporting the adoption of BIM culture change to facilitate organisational performance within the built- environment. Interested in organisation of data for asset whole lifecycle management.



LEGEND: DAT: Design Authoring Team ; SBT: Specific BIMWS Team at Design/ Construction Stage





## THERMAL DELIGHT IN ARCHITECTURE: ARE WE MISSING A VITAL LINK NOW?

### DR. MADHAVI INDRAGANTI

ASSISTANT PROFESSOR OF ARCHITECTURE AND URBAN DESIGN IN THE  
DEPARTMENT OF ARCHITECTURE AND URBAN PLANNING, AT QATAR  
UNIVERSITY

**DAY & DATE:** Monday, 14<sup>th</sup> May, 2018  
**TIME:** 12:30 pm - 02:00 pm  
**VENUE:** CENG, C07 - 178

#### ABSTRACT

The vital key to existence or extinction of any species in nature is its ability to remain thermally comfortable. Human beings have an amazing ability to adapt to varying thermal environments in search of comfort. People across the times used architecture to create varied thermal experiences that are immensely delightful: the English hearths, saunas, the Roman and Japanese baths, the Islamic gardens. In fact these formed the focal points for essential rituals. However, the current practice of overcooling of buildings creates monotonous thermal environments. *This lecture explores if we are missing the vital link between thermal delight and the current architectural environments we work and live in?*

### MADHAVI INDRAGANTI

A Fulbright Scholar, Dr. Madhavi Indraganti joined the Department of Architecture and Urban Planning as an Assistant Professor in 2017. A Japan Society for Promotion of Science Fellow, Madhavi researched on thermal comfort, clothing insulation, and vernacular architecture in Qatar, India, Japan, Saudi Arabia, and the USA in collaboration with the University of Tokyo and the University of California, Berkeley. She has been extensively published and cited. Madhavi is also a fellow of the Higher Education Academy, UK. A licensed architect and pedagogy expert, she has 25 years of teaching, research, and professional experience. Prior to joining the DAUP, she was an Associate Professor at Prince Sultan University in Saudi Arabia. Her current research focus is occupant comfort in offices. She has been invited by many international conferences including ASHRAE, SHASE in Japan, QGBC in Qatar, and KACST of Saudi Arabia. She teaches construction management and sustainable design studios.







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**Mark David Major**

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