



كلية الهندسة
College of Engineering
QATAR UNIVERSITY جامعة قطر

al-Imara العمارة

Newsletter of the Department of Architecture and Urban Planning

<http://www.qu.edu.qa/engineering/academics/architecture>

Volume 3, Issue 1 | Fall 2019

10AD Success & AEA19 Winners

10th Annual Architecture Day in the DAUP on 18 April 2019 featuring Ibrahim Jaidah, AEB in Doha, Qatar, Nadia Maqbool, 23 Degrees North in Muscat, Oman, UNESCO Regional Director in Doha, Anna Paolini, Italian Ambassador Mr. Pasquale Salzano, and the ArcheoMed3D Exhibition was hailed by many as 'the best ever!' The theme was "Black, White, Architecture" including an exhibition highlighting some of the best work by DAUP students in 2018 and



2019. The Department of Architecture and Urban Planning, College of Engineering at Qatar University hosts an annual Architecture Day event in the Spring semester of every academic year. Architecture Day is both a celebration and showcase of our students, department, and profession. It is an open day for students to interact with each other across batches, receive praise from colleagues about their studio projects, and participate in the infectious energy of various programs held during the event. It is also an opportunity to interact with members of the larger CENG-QU community and architecture profession in Qatar. During 10AD, winners of the AEB Architecture Excellence Awards 2019 were

announced. AEB and DAUP invite senior students of to submit their design projects for this annual award. AEB aims to recognize the excellence in design and education displaying exceptional approaches to architectural design. The goal is to promote and share architectural experience and knowledge among young architects and academics, celebrate those who push boundaries and set new standards, and recognize that excellence in architecture goes



far beyond practical buildings. The award was instituted by Arc. Ibrahim Jaidah and Dr. Fodil Fadli to encourage and assist graduating students as they begin their careers as professional architects in Qatar. Past QU-AIAS President Maryam Alkuwari was rewarded First Prize for AEB Architecture Excellence Award in 2019. Fatma Alyafei and Nancy Makhoul were named for Second and Third Prize. All three students submitted their conceptual design excerpts of their ARCT 512: Senior Project for the award. The 11th Annual Architecture Day (11AD) will occur on Thursday, 2 April 2020 during the Spring semester when the AEB Architecture Excellence Awards 2020 winners will be announced.



From the Head of Department



Welcome to an exciting start of a promising new academic year for the Department of Architecture and Urban Planning! This marks the third year and fifth issue for our departmental newsletter,

al-Imara. In a very short time, *al-Imara* has come to represent a high standard of quality for departmental newsletters at QU. We look forward to receiving more comments and feedback from all of you about the activities, events, and work of the DAUP.

I would like to welcome back all of our beloved students and *salam alaikum* to our new students, an expanded batch of first-years representing the initial step of our growth as a department in the College of Engineering at QU. I would also like to welcome our new DAUP faculty and staff; Dr. Reza, Dr. Faris, and Jiin! We are wishing all of you the best. Enjoy your architectural experience with us in the DAUP. Finally, congratulations to all of the Senior students who departed last spring and will be attending QU Graduation Ceremonies in the next few weeks. We wish them the best of fortune for their next journey.

There is a lot of student work and event successes that *al-Imara* will share with you in this issue; Senior Project and AEB Architecture Excellence Awards, 10AD, DAUP public events, project features of student work during the Spring 2019 semester, ongoing research and other students and instructors' activities, our calendar of events for 2019-2020, and so much more. Thank you to our students and instructors for the continual success of the DAUP. Their achievements encourage us and help push us towards achieving more and better in the future. Let's celebrate by looking through this issue of *al-Imara* at the amazing work and accomplishments of our students and future architects.

Enjoy the best of *al-Imara*!

Dr. Fodil Fadli
1 October 2019

ABOUT THIS ISSUE OF AL-IMARA

From the Editor



Welcome Back! It's been a long nice summer break. We hope it was relaxing and well spent for all. *Al-Imara* is coming back with new projects, news, and exciting stories!. I'm very excited for this new issue

and I'm looking forward to a new academic year. I'd like to send congrats and welcome to the new Architecture Students. We are wishing them all the success in the world. I hope they will enjoy their journey with us. In addition, to congratulations to all the Senior students who finished their BArch program last spring. We're are wishing them the best for their next journey. You all will be missed! There is going to be many interesting and informative topics about architecture and student projects as whole in this edition. We will be publishing special coverage about DAUP activities and projects, so sit back and enjoy our wide collection of news. Enjoy our *al-Imara*!

Architect Reham A. Qawasmeh
1 October 2019

al-Imara العمارة

Newsletter of the

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Volume 3, Issue 1 | Fall 2019

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UPCOMING EVENTS

Wooden Canyon Workshop

12:30-1:30 pm, MON, 30 September 2019
C07-175 Main Auditorium

QU-AIAS WORKSHOP

Abode Illustrator by Maryam Al-Nuaimi

12:30-1:30 pm, WED, 2 October 2019
C07-168

Landscape Architecture & Therapeutic Design

DAUP Public Lecture by Dr. Reza Mabadi

12:30-1:30 pm, WED, 9 October 2019
C07-175 Main Auditorium

Gulf Architecture Project Conference 2019

9:00-18:00, 10-13 October 2019
Qatar National Library

QU-AIAS WORKSHOP

Souq Waif and Msheireb Downtown Doha

Walking Lecture by Dr. Mark David Major

SUN, 13 October 2019

Meet at 6:00 pm outside Radwani House in Msheireb if you wish to attend.

QU-AIAS WORKSHOP

Talking Architecture and Design

12:30-1:30 pm, WED, 16 October 2019
4th Year Studio

QU-AIAS EVENT

DAUP Student Art Exhibition

Exhibition Opening SUN 20 October 2019

20 October to 28 November 2019

1st Floor Common Space between Senior and 4th Year Studio

Heritage-BIM: From 3D Scan to 3D Model

DAUP Public Lecture by Dr. Faris Khamidi

12:30-1:30 pm, WED, 30 October 2019

C07-175 Main Auditorium

Last Day of Fall Classes

Thursday, 28 November 2019

Fall 2019 Final Exam Period

1-12 December 2019

End of the Fall Semester

Thursday, 12 December 2019

11th Annual Architecture Day (11AD)

9:00 am-2:00 pm, THUR, 2 April 2020

Stay tuned for more event announcements!

THREE QUESTIONS

Dr. Reza Mabadi

A new DAUP faculty member, Dr. Reza Mabadi, answers 3 questions so you can get to know him.

Who was your role model as an architecture student?

My architecture role model was and still is Walter Gropius (1883–1969). He is a German architect who founded the Bauhaus School of art and architecture. He is internationally recognized as one of



the pioneering masters of Modernist architecture. He achieved considerable success in both practice and academia. Also, he was one of the first architects that manifested the importance of design process and teamwork method in architecture.

How is your experience as a new faculty at Qatar University so far?

It is quite impressive considering the urbanization of Doha and the warm, welcoming Qatari society. It is also interesting to see how a Middle Eastern country, Qatar, has successfully achieved many international standards, such as a focus on educating female students, while preserving their cultural values. This small country has become a real hub for business and science. I see many academics from around the world teaching and researching in QU. I predict a very bright future for Qatar. QU is playing a critical role in this regard.

What are you passionate about?

Upon my arrival to Doha, I realized that very precious buildings have been constructed, some designed by famous architects, while the landscape design of the city and our QU campus is not as rich as the city's architecture. My professional/academic background and research focus are therapeutic design and occupant's health and well-being. I passionately seek a chance to implement those ideas and knowledge to improve the quality of life in Qatar and, specifically, our QU campus.

TEACHING FOCUS

DAUP Welcomes New Faculty and Staff

In late August, the Department of Architecture and Urban Planning (DAUP) welcomes new faculty members and staff to Qatar University. Associate Professor Dr. Mohammad Faris Bin Khamidi and Assistant Professor Dr. Reza Mabadi have joined the DAUP Faculty. New Teaching Assistant Jiin Baek has joined the ranks of the DAUP Staff.

Dr. Faris holds a Ph.D. in Architectural Engineering and Master of Engineering with a specialization in Architecture from the Graduate School of Human-Environment Studies at Kyushu University in Fukuoka, Japan, and Bachelor of Architecture and Bachelor of Science in Housing, Building & Planning with Honors from University Science Malaysia in Penang, Malaysia. He was previously the Academic Director of Research/Head of

Built Environment at the University of Reading Malaysia. Dr. Reza holds a Ph.D. in Plant Science and Landscape Architecture from the University of Maryland in the United States, Master of Urban Design & Planning from the University of Tehran in Iran, and a Master of Architectural Design & Engineering from Azad University in Hamedan, Iran. He was previously an Assistant Professor in the Department of Architecture & Urbanism at Razi University in Kermanshah, Iran. Jiin is from South Korea and holds has a Master's degree in Landscape Architecture from the University of Sheffield. Previously, she was a Research Engineer for the Masdar Institute of Science and Technology in the United Arab Emirates.

Welcome to the DAUP-CENG at Qatar University!

Senior Project Winners in Spring 2019

At the end of the Spring 2019 semester, the College of Engineering (CENG) announced the Senior Project Winners in the Department of Architecture and Urban Planning (DAUP) based on the recommendations of the final jurors, the Senior Project Coordinator, and the Department Head Office. Every school year, the CENG rewards of first, second, and third place to three students each for their Senior Project in all the CENG departments to recognize outstanding examples of student work on the cusp of graduation from Qatar University. The

ARCT 521 projects receiving CENG Senior Project Awards 2019 were Fatma Alyafei (see Project Feature centerfold in this issue of al-Imara), Khuloud Al-Khater, and Hadeel Lami for First Place, Nancy Makhoul, Aisha Al-Sulaiti, and Noof Al-Thani for Second Place, and Maryam Azzam, Dalal Al Ansari, and Maryam Al-Kuwari were awarded Third Place. Please join us in congratulating the outstanding work of our DAUP Seniors during Spring 2019!

Congratulations, graduating Seniors!



Fatma Alyafei (left) and Maryam Al Kuwari (right) present their ARCT 512: Senior Project to guest jurors at the end of the Spring 2019 semester in the main atrium of the QU Women's Engineering Building (Photo: DAUP-CENG-QU).

STUDENT FOCUS

Busy Year Ahead for QU-AIAS

President Maryam Al-Nuaimi and her QU-AIAS leadership team are planning an ambitious series of events and workshops for DAUP students and faculty/staff for the 2019-2020 school year. QU-AIAS plans to provide a series of workshops for its members that delve into architectural knowledge, skills and experience. The aim of these workshops is for the members to gain a set of skills related to programs, hand drawings, design methods and gain presentation skills. The workshops will be announced one week in advance by posters and AIAS social media. Registration will be via the QU-AIAS website, which will launch soon. This will include an Abode Illustrator workshop teaching the basics and tricks of the software program and answering any questions/ inquires the members may have about the software, which will be followed up with a series of software workshops for SketchUp, Revit, InDesign, and so on. There will also be a Talking Architecture and Design Workshop (moderated by Moza Al Obaidan

and Rowaida Elnahhas) discussing architecture the current and the old, the challenges in architecture, and what is happening around us in the architecture and design fields. There will be a Walking Lecture of Souq Waqif and Msheireb Downtown Doha hosted by Dr. Mark David Major and QU-AIAS is trying to organize a tour for students inside the buildings of Msheireb Downtown Doha. Both workshops aim to expose the students to the architecture and settlements around them and learn how they came to be. Finally, QU-AIAS is planning an Art Exhibit to show case the student and faculty talents during the Fall 2019 semester. The art need not be Architecture-related but can include paintings, drawings, sculptures and any other medium. Finally, QU-AIAS is trying to arrange for a Recycled Materials Corner in the DAUP where students can access modeling and drawing materials from graduated students for recycling in new studio projects. There is lots going on and it's going to be an exciting year for QU-AIAS!



Sara Al-Muhsin (left) and Dana Alamadi (right) present to faculty and industry guests about their six-week summer internships at Monaqasat and Al Thumama Stadium for Al Jaber Engineering, respectively (Photo: DAUP-CENG-QU).

News Bits

Dr. Djamel Boussaa was promoted to Associate Professor by Qatar University on 29 March 2019. Congratulations, Dr. Boussaa!

Dr. Fodil Fadli was invited to participate as an expert in the *Digital Heritage-Digital Archives* workshop. The event was held in UCL-Qatar as part of the Digital Cultural Heritage Law project.

DAUP students made their final presentations to faculty members and several industry guests about their summer internships for Practical Training 1 and 2 on Wednesday, 28 August 2019. 41 DAUP students interned at 15 companies and organizations for six weeks including AlBaker Architects, Al Jaber Engineering, Arab Engineering Bureau (AEB), ARCADIS Limited, ARRUS International WLL, Ashghal, CEG International, Engineering Consultants Group (ECG), Kasian Architecture, Katara Hospitality, Khatib & Alami, Msheireb Properties, Monaqasat, Qatari Diar, and Qatar Museums in Summer 2019.

Dr. Fodil Fadli was invited by the MEHE to participate as an expert in a focus-group designing and developing educational materials for the Arts and Design curriculum for the secondary education cycle.

EVENTS FOCUS

Coming This Year

The DAUP Outreach Committee in concert with the Department Head's Office has been preparing the 2019-2020 school year events calendar.

There will be many highlights during the coming year including DAUP Public Lectures and workshops about Landscape Architecture and Therapeutic Design by new DAUP Faculty member Dr. Reza Mabadi, Heritage-BIM from 3D Scan to 3D Models by new DAUP Faculty member Dr. Mohamed Faris Khamidi, Technology challenges in the Al-Thumama Stadium by Waleed Salaheldin, Sustainability Manager at Tekfen Construction, Art, Architecture, and Design: A Symbiosis between Aesthetics, Health, and Wellbeing by Professor Mohamed Cherif Amor, Associate Dean of Academics and Chair of Interior Design at VCU Qatar, BIM a Must in Architectural Design by Architect-Engineer Mohamed Imran, BIM manager for HBK Qatar, and Preparing for Digital Transformation in the Construction Industry by Billal Succar at Change Agent Australia. DAUP is also planning to launch "Tuhfa" a Student Competition evolving around Arts and Architecture. The Inclusive Architecture and Arts Conference is under preparation by the Department and will be convened jointly with the British Council.

FACES IN THE CROWD



IAESTE exchange students Andra-Teodora Radu (center left) and Livia Tanasa (center right) from University of Architecture and Urbanism Ion Mincu in Bucharest, Romania visit the Qatari Desert and Saudi Arabian border with Dr. Mark David Major (right) on 6 September 2019 (Photo: DAUP-CENG-QU).



"I am an Architect" from the "I Am" series (2005) by Malal Al Dowayan (Image: Mathaf: Arab Museum of Modern Art).

WORDS OF WISDOM

“Scientists can show us what we shouldn’t do, but we need designers to show us what we should do”

– Babette Porcelijn

News Bits

DAUP-CENG hosted two students, **Andra-Teodora Radu** and **Livia Tanasa**, from the University of Architecture and Urbanism Ion Mincu in Bucharest, Romania as part of the IAESTE student exchange program in 2019.

The Italian Embassy of Qatar and Msheireb Properties have donated the **ArcheoMed 3D Exhibition** to the Department of Architecture and Urban Planning (DAUP) at Qatar University. The exhibition was a big success with QU students at 10AD last spring. Plans are underway for permanent display of the exhibit in the DAUP. Thank you, Italian Embassy and Msheireb Properties!

DAUP faculty and students have been invited to contribute to the Gulf Architecture Project (GAP) 2019 Conference. They will be presenting and showcasing their latest research in topics covering digitizing built heritage, socio-cultural aspects of heritage conservation, and sustainable preservation strategies of cultural heritage in the MENA and GCC regions. **Dr. Fodil Fadli** will co-chair the GAP 2019 conference jointly convened with Qatar National Library and the Liverpool School of Architecture, which will be held at QNL from the 10th to 13th October 2019.

CONFERENCE NEWS

DAUP Awarded 14th International Space Syntax Symposium

In July, the International Space Syntax Steering Committee awarded hosting of the 14th International Space Syntax Symposium (SSS14) in 2023 to the DAUP-CENG at Qatar University.

Founded by Bill Hillier, Julienne Hanson, John Peponis, Alan Penn, and many others in the late 1970s/early 1980s at University College London, space syntax is a worldwide research program dedicated to investigating the built environment based on the objective, analytical techniques of network science. Now in its third decade, *International Space Syntax Symposia* is a biennial conference/workshop event held in odd-number years. It is attended by academics, practitioners, researchers, and students from around the world. University College London hosted the *1st International Space Syntax Symposium* in 1997. There were approximately 300 attendees from more than 30 countries at the recent SSS12 hosted by Beijing Jiaotong University in Beijing, China. Western Norway University will host SSS13 in Bergen, Norway during Summer 2021.

Dr. Mark David Major, Chair of the SSS14 Organizing Committee, Heba O. Tannous, SSS14 Organizer, and Deepthi John, Architect at ARRUS International WLL in Doha, represented the DAUP-CENG's conference bid at SSS12 in Beijing, China. Dr. Major is recognized as the founder of *International Space Syntax Symposia*. The DAUP-CENG-QU bid for

SSS14 withstood competition from universities in Cyprus and Malaysia to secure unanimous consent from the international steering committee. There were also four papers/presentations affiliated with DAUP-CENG and ARRUS presented in Beijing and published in the SSS12 conference proceedings.

SSS14 represents a tremendous opportunity to showcase academic research and industry design innovations using space syntax in the State of Qatar and MENA region in the immediate afterglow of the 2022 World Cup. The State of Qatar and its notable buildings and places such as Souq Waqif, Souq Wakrah, Msheireb Downtown Doha, Museum of Islamic Art, Qatar National Museum, Qatar National Library, World Cup 2022 stadia, and much more will feature in mobile workshops available to symposium attendees.

The SSS14 Organizing Committee is: Dr. Mark David Major, Chair; Dr. Fodil Fadli, DAUP Head; Heba O. Tannous, SSS14 Organizer; Revina Abraham; Sultana Al-Nabet; Maryam Al-Nuaimi, QU-AIAS President; Heba Elgahani; Dina Saleh, GHD Global (Industry Representative); Architect Velina Mirincheva, ARRUS International WLL; Architect; Deepthi John, ARRUS International WLL; Dr. Akkelies van Nes, SSS13 Representative, Western Norway University; and, Architect Ibrahim Jaidah, AEB, Honorary Chair.



Dr. Mark David Major (left) and Heba O. Tannous (right) present during 12th International Space Syntax Symposium hosted by Beijing Jiaotong University on 8-12 July 2019 in Beijing, China (Photos: DAUP-CENG-QU).

PROJECT FEATURE: ARCT 512: SENIOR PROJECT

Fatma Alayfei's Alwakrah Pulse



MASTER PLAN
FREE HAND SKETCH

DESIGN CONCEPT DESCRIPTION

فطمة

The concept of the Urban Plan that I keep the idea of the sea to be the core of the Project to emphasize the important of the existence of the sea in the old days. Also, Alwakrah people love the sea and in the past all their activities were related and connected to the sea, so the design is inspired by the sea.

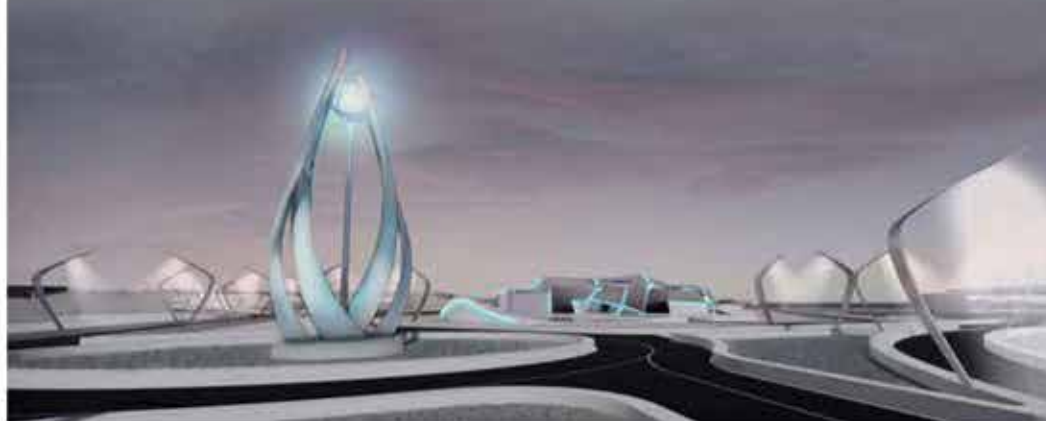
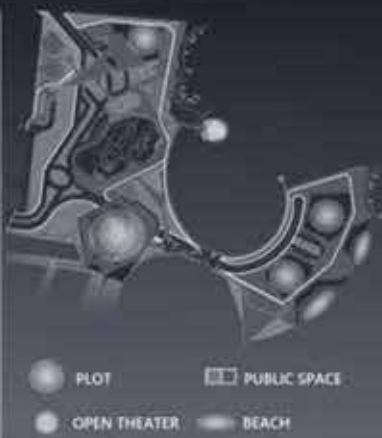
Moreover, I chose the style to be futuristic because Alwakrah city is already featured with it is unique old and vintage style. So people can experience FUTURE ALWAKRAH in my project.

The main material in the project for the pedestrian path ways are light gray Sand stone and compressed sand that are mixed with fine stones. For the building the exterior of the building is clad in aluminum and stone while the interior features glass, terrazzo, stainless steel and glass reinforced gypsum. Integration modern Architecture and new technology by keeping its unique and fit the environment in Qatar Alwakrah Pulse became the new future attraction for all people.



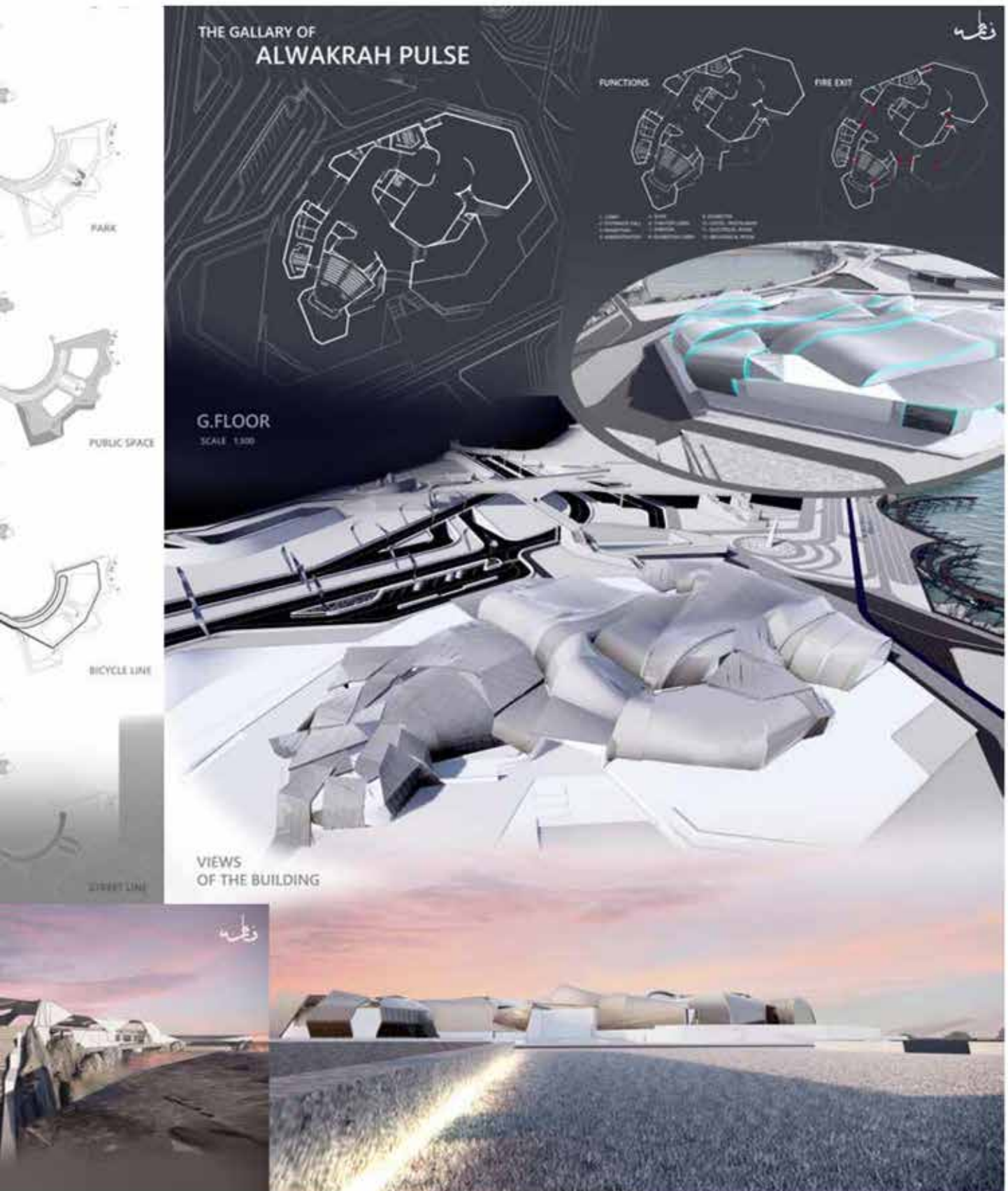
TOP VIEW
SCALE: 1:1000

MASTER PLAN ZONING



THE BRIDGE
AS PROPOSED

Summary - Alwakrah Pulse is an architecture and masterplanning project for the second-largest city in the State of Qatar. The architecture focuses on developing the main activity of the project such as the Gallery, Open Theater and the Bridge while the urban design develops an innovative master plan for the Alwakrah Pulse project. It includes commercial, entertainment, and retail uses as well as beach resorts for fitness and relaxation and cultural uses for exhibitions and events, and a library for residents in a walkable district.



EVENT NEWS

Wooden Canyon Workshop

On 30 September 2019, the DAUP hosted representatives of Obiettivo Qatar, DeVoto Design in Rome, Italy and Koichi Takada Architects in Sydney, Australia for The Wooden Canyon and Other Works Workshop in the main auditorium of the QU Women's Engineering Building. The workshop featured talks by Kim Wakeman from Obiettivo Qatar and Marina Manfri and Architect Fabio Valenza from DeVoto Design.

Marina has been a part of Devoto Design for almost 20 years. She began as Head of Project Management and later moved to Business Development. She has worked on the Qatar business for over 5 years, successfully delivering projects such as the landmark National Museum of Qatar, the ongoing Doha Oasis Hotel Skyview and Qatar Sports Olympic Museum. She is deeply inspired by Qatar culture and heritage. Fabio is an Engineering Director at DeVoto Design. He began his career as a Professor of Multimedia Architecture Laboratory at La Sapienza University of Rome. He joined Devoto Design in 2009 as a project manager and then went on the head up the Engineering Department, contributing his remarkable skills in construction drawing.

Some of the main projects Fabio has directed include The National Museum of Qatar, Headquarters of Gazprom in Russia, the Prime Minister Residence in Ethiopia.

Koichi Takada Architects were responsible for the interior design and DeVoto Design for the installation of curving, double-cladding of 40,00 wood panel pieces for the gift shop at the National Museum of Qatar. The design was inspired by Qatar's desert landscapes, which influenced and marked the concept of the interiors, reproducing the striking geometries and chromatism of the desert, its canyons and dunes. It provides an opportunity for visitors to experience and connect to the State of Qatar' natural landscapes. Takada presented the design inspiration of the Wooden Cave of Light (Dahl Al Misfir) where museum guests have been invited to "imagine being in a cave, or sand dune, being in this narrow space of a Souq - there's something that triggers your emotions. You start to connect to the space, to the natural landscape in Qatar." Valentina and Fabiola discussed the specific challenges of the project for the Qatar National Museum as well as examples of other work around the world. The workshop was informative and well-attended.



Interior view of the gift shop at the National Museum of Qatar by Koichi Takada Architects and DeVoto Design (Photo: Mark David Major).

STUDENT FOCUS | ARCT 111: GRAPHIC COMMUNICATION II

Technology and Architecture at DAUP

by Architect Samer M. Osman

Many are witnessing a revolution in architecture now; a strong storm of invention that meant to evolve intense knowledge and technology. It is easy to say that the most noticed buildings recently, worldwide, are a result of a human mind but could have not being built without a machine. For example, a landmark in Doha currently is the new Qatar National Museum. Its design draws attention from around the world. The concept is very simple, which was extracted from a desert flower. However, the construction would have been impossible without the BIM technology.

Architecture is not the long tedious hours of drafting with T-square any more nor are ideas are coming from editing lines in a rigid concept now. This has been the traditional means of achieving design in past centuries. The human mind has and will remain the supreme power. An analogy is the fast man and a car. It may take a lifetime for an individual to become the fastest runner but it takes only one mind to invent a car that can make millions out race him. The principles and terms of architecture remains the same, so at any given point we can measure aesthetics in building using scale harmony, contrast, etc. However, as many other aspects of our life

has change, architecture is evolving as well. The products of architecture are different now. A new generation of architects are on the rise. The first step is to import the technology, become familiar with it, and after that stream it. BIM technology could be the gateway to future success and a software platform such as Revit might be the key. Looking at Qatar University, one can argue that our students already represent this new generation of architects.

Entry-level student work in the DAUP illustrates the earmarks of this evolution. In Graphical Communication 2, students are taught various software with a focus on Revit Architecture to teach students teach how to use the technological tools available to improve themselves through design. The "Dynamic Building" coursework requires students to generate an architectural form that utilizes a minimum of two dominant masses and five secondary masses using curves and an optional twist with voids and a facade pattern not less than five stories (170 meters) in height with a building footprint minimum of 10,000 square meters with the manipulation of form demonstrating building levels.

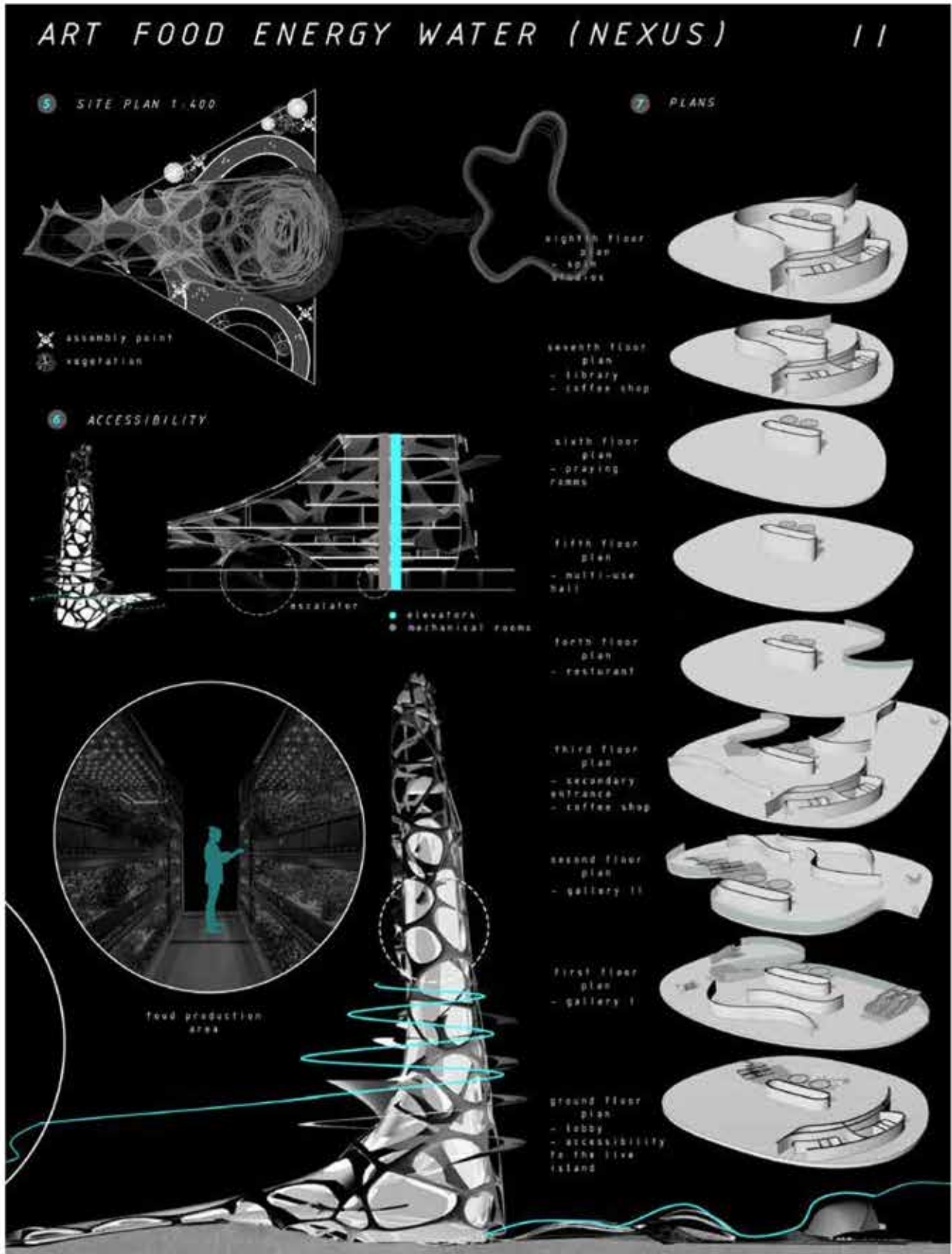
This is helping to plant the seeds for a new era of architecture in our students.



Examples of student work by (left) Hanae Taha and (right) Haya Al-Muhanadi for the Dynamic Building coursework in the Graphical Communication 2 class (Images: DAUP-CENG-QU).

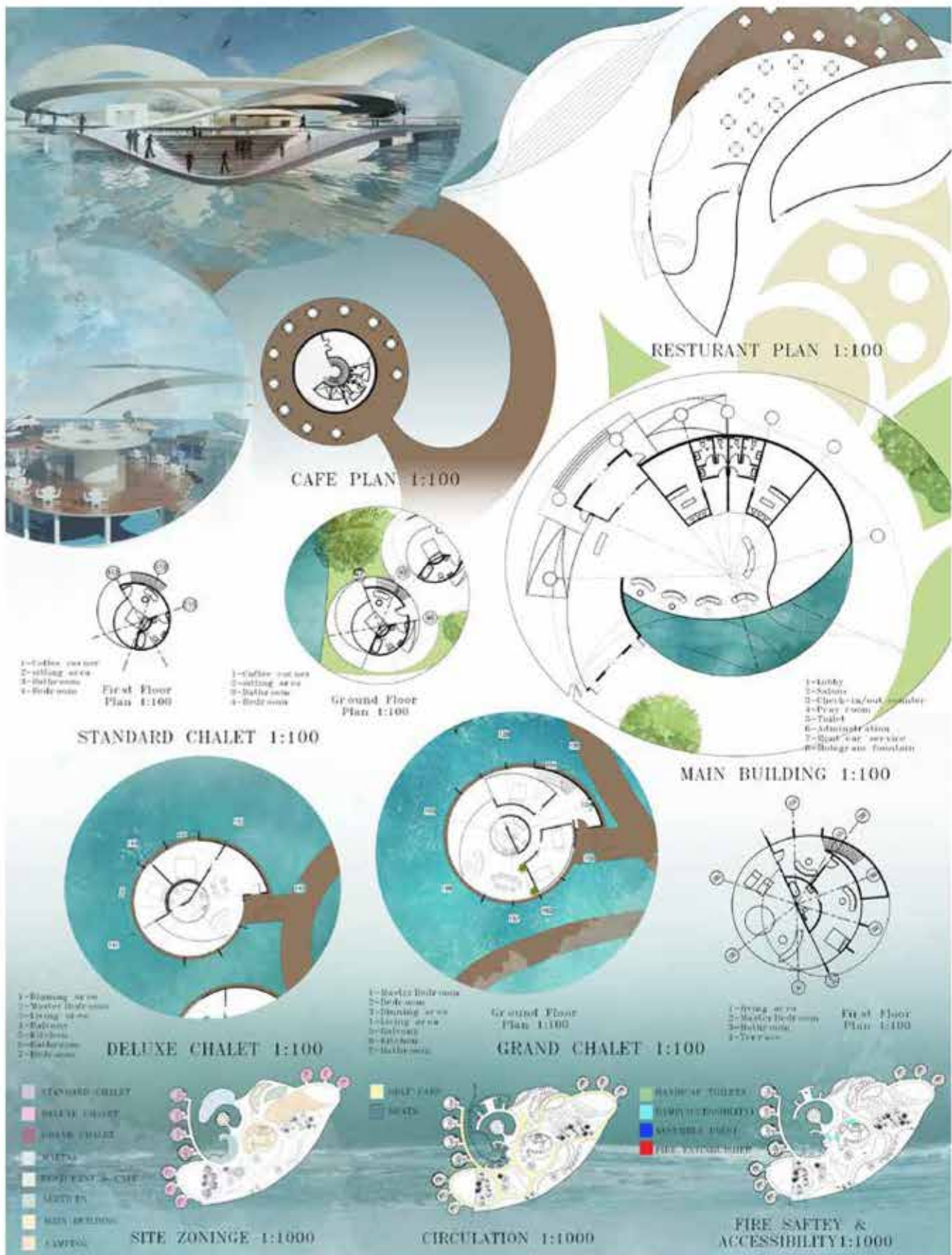
STUDENT WORK: ARCT 411-ARCHITECTURAL DESIGN STUDIO 6

Afrah Al-Housaly's Art Food Energy (Nexus)



STUDENT WORK: ARCT 311-ARCHITECTURAL DESIGN STUDIO 4

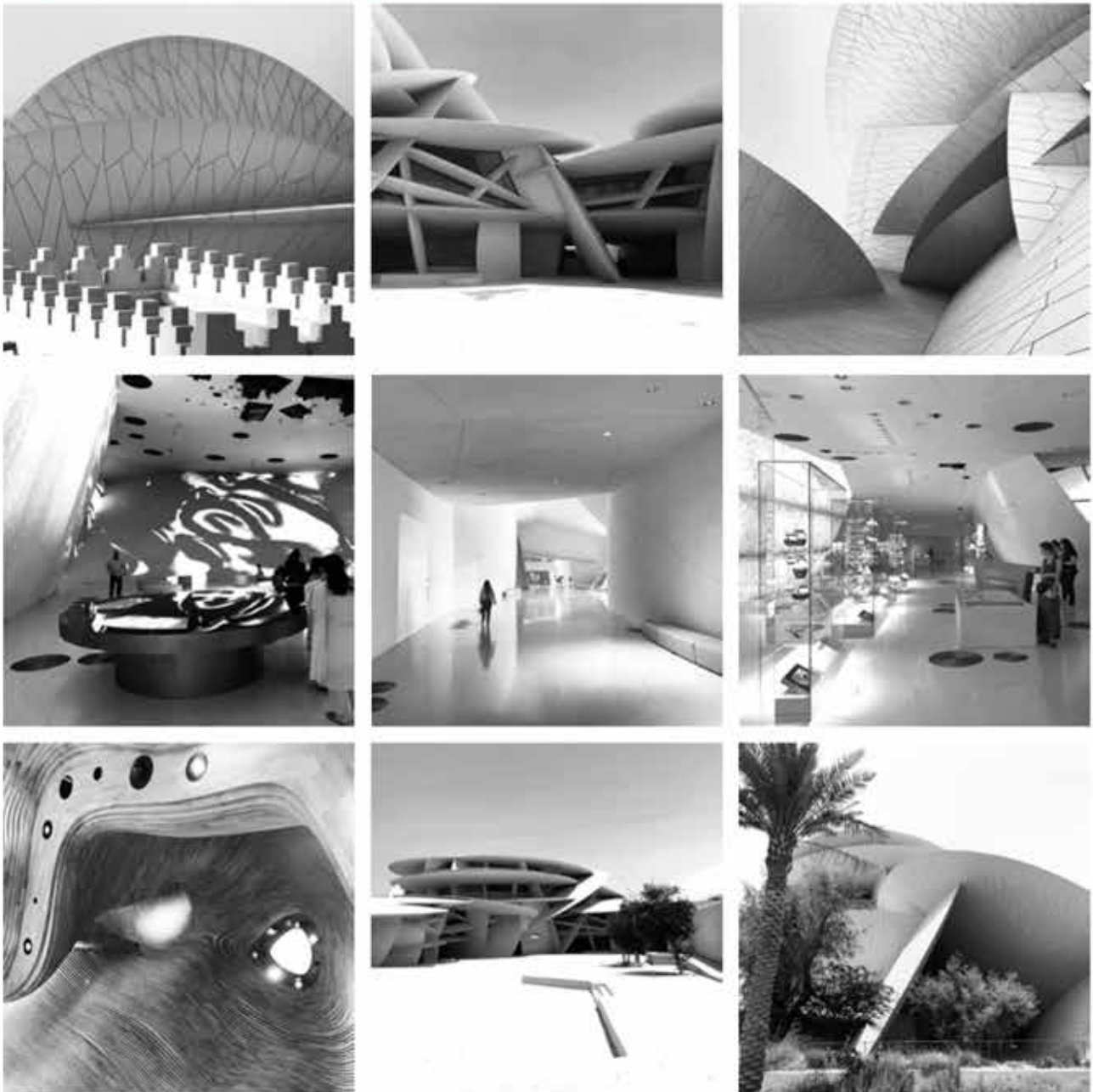
Alreem Al-Kaabi's Revolving Resort



PHOTOGRAPHIC FEATURE | ARCHITECTURE IN FOCUS

National Museum of Qatar

THE ATELIERS JEAN NOUVEL



Architectural and Museographical Design: The Desert Rose

The National Museum of Qatar emerges from a desert that has ventured all the way to the sea. On the site, the Royal Palace of Sheikh Abdullah bin Jassim Al Thani rises up, a twentieth-century landmark of major heritage value to Qatar. (It) is dedicated to the history of Qatar. Symbolically, its architecture evokes the desert, its silent and eternal dimension, but also the spirit of modernity and daring that have come along and shaken up what seemed unshakeable. So, it's the contradictions in that history... evoke here. Three economic miracles occurred to shake up this overwhelming tranquility: pearl fishing/pearl trade and the discovery of oil and gas.

(Excerpt from www.jeannouvel.com/en/projects/musee-national-du-qatar)

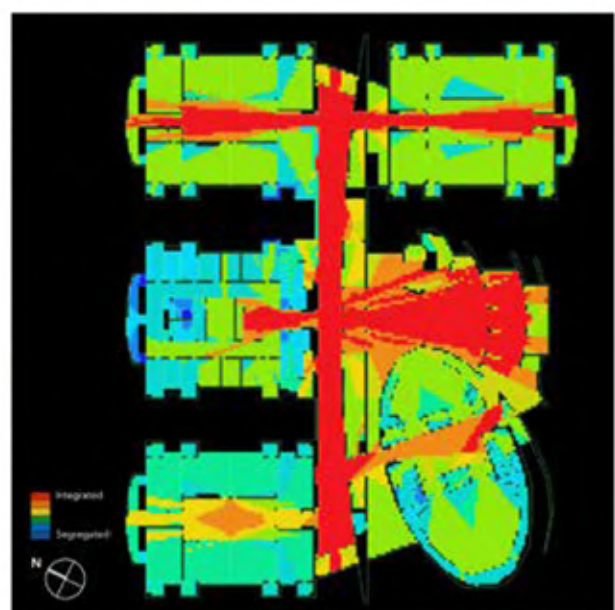
RESEARCH FOCUS

CUBE Post-Occupancy Evaluation

by Dr. Mark David Major, AICP, CNU-A

Architectural researchers in the DAUP-CENG at QU completed phase 1 of the CUBE demonstration project in Spring 2019. The CUBE1 (Comfort & Use in Building Evaluation #QUST-2-CENG-2018-9; M.D. Major, LPI) and CUBE2 (Complexity & Use in Building Evaluation #QUST-2-CENG-2019-12; M.D. Major, LPI) post-occupancy evaluation studies are initial phases of a long-term, incremental demonstration research project to develop a comprehensive dataset about movement, space use, and social interaction on the Qatar University campus. The QU Women's Engineering Building on the female campus is the case study for CUBE1. The BCR Corridors on the male campus is the case study for CUBE2. Future cases studies will include the Main Library, College of Business & Economics, College of Medicine, Research Complex, and the public spaces of the QU campus. The CUBE research project conducts studies based on 'passive' observation/survey techniques (i.e., no interaction with end-users) and layout modeling in the space syntax toolkit. The purpose is to provide quantitative information about how the campus and its buildings function to better inform the design of future alterations/extensions

to existing buildings, new university buildings, and the campus to promote walkability and innovation by realizing the benefits of casual, social encounter in buildings and public space. The goal of CUBE is the promotion of a world-class campus at Qatar University. The research demonstrated a consistent but weak relationship ($R^2=0.377$, $p<0.001$) between spatial layout and the pattern of movement in the QU Women's Engineering Building using space syntax modeling. There were programmatic reasons for detecting a weak relationship including 1) over-performance of the east/west wings due to the student/classroom schedules and 2) under-performance of faculty offices area in the central wing of the building. Researchers also detected a more consistent relationship ($R^2=0.437$, $p<0.001$) between metric area and standing (i.e., people tend to stop where there is more space available to briefly interact) and a very strong relationship ($R^2=0.682$, $p<0.001$) between interaction and static occupation (i.e., people tend to interact where there are places to sit). Generally, the space syntax modeling did provide a visually-strong representation of the pattern of movement in the building especially highlighting the critical importance of the central axis on both floors as well as the main atrium.



(Left) Observed movement of a typical 100 people (91% students) during the first 10 minutes of their visit calibrated to door entry counts and (right) pattern of visibility in a range from integrated (red and orange) through yellow, green to segregated (light and dark blue) on the ground floor of the QU Women's Engineering Building (Images: QUST-2-CENG-2018-9).

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 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

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B. Arch Program NAAB SE Since January 2018

AY 2019/20 DAUP PUBLIC LECTURE #1



Dr. Reza Mabadi

Reza Mabadi is assistant professor at Department of Architecture and Urban Planning in College of Engineering, Qatar University. He is educated in Urban Design & Planning (MA), Architectural Engineering (MA), as well as Landscape Architecture (Ph.D.) from the University of Maryland, College Park, U.S.A. His research and teaching interests concentrate on therapeutic design, occupant's health & well-being resilient architectural and urban design, ecological restoration, and urban forestry. Within this realm, he passionately investigates restorative aspects of urban spaces, the spatial structure of cities, planning for public health, environmental conservation. Most of his current scholarship focuses and examines these subjects from historical and contemporary perspectives. He tries to integrate research into practice that aims to improve the therapeutic properties of the human environment. His designed and constructed projects include the hospitals, healing gardens, university campus plans, urban parks, and two reforestation projects.



St. Patrick's Residence

DEPARTMENT OF ARCHITECTURE & URBAN PLANNING cordially invites you to a seminar on

THERAPEUTIC LANDSCAPE DESIGN

BY

Dr. Reza Mabadi

ASSISTANT PROFESSOR @DAUP

QATAR UNIVERSITY

DAY & DATE: Wednesday 9th October 2019

TIME: 12:30- 13:30

VENUE: CENG, C070178 Auditorium

Around the mid-17th century, the word "therapeutic" was re-introduced to European medical literature. The origin of the word comes from the old Greek word "therapeutic," which means to treat medically (Hooper, 1839). In the mid-19th century, therapeutic was defined as "healing powers of nature." Merriam-Webster (2016) suggests three definitions for the word "therapeutic," divided according to the medical or non-medical processes they reference. According to the existing literature, "therapeutic landscape" is a garden or planted area that encourages health and well-being (Therapeutic Landscapes Network, 2016). Similar to the preceding approach, medical geography put more emphasis on historic and natural characteristics when connecting a specific site with health and well-being (Velarde, Fry, & Tveit, 2007).



Anne's Garden, Northeast Georgia Medical Center, Gainesville, Georgia

Image © The Eckstein-Gardens Company, courtesy of Nancy Salts (retrieved from thefield.usla.org)



Healing Garden at Celebration Health

Image is also linked to Celebrate your Health



Abadan General Hospital Campus is designed with Therapeutic Landscape Approach

Image courtesy of Reza Mabadi





London, England

Brasilia, Brazil

Atlanta, USA

London, England

Delft, The Netherlands

حيث يلتقي الشرق بالغرب ...

Istanbul, Turkey

Stockholm, Sweden

SSS14



Santiago, Chile

الدوحة 2023

Seoul, South Korea

London, England

14th International Space Syntax Symposium

Lisbon, Portugal

Beijing, China

Bergen, Norway

Doha, Qatar

The **Gulf Architecture Conference and Exhibition** is organized by the Qatar National Library, in collaboration with Liverpool University's School of Architecture, Qatar University's Department of Architecture and Urban Planning, and Ibrahim Jaidah, CEO and Chief Architect, Arab Engineering Bureau.



DAUP Head Dr. Fodil Fadli (center) explains the third-year students' materials project (1:1 scale) to dignitaries attending the 10th Annual Architecture (10 AD) on 18 April Day 2019 at the QU Women's Engineering Building including (left to right) Kim Chang-mo, Ambassador of the Republic of Korea to Qatar, Architect Ibrahim Jaidah of AEB, Italian Ambassador Mr. Pasquale Salzano, QU President Dr. Hassan Rashid Al-Derham, CENG Interim Dean Professor Abdelmagid S. Hammuda, and Vice President of Academic Affairs Dr. Omar Al-Ansari. Dr. Raffaello Furlan and Dr. Anna Paolini UNESCO Regional Director in Doha are at the far right to the back (Photo: Qatar University).

Thursday, 10 October, 5:00 – 7:00 PM: Opening of the exhibition, keynote talk and panel discussion (in Special Events Area)

Friday, 11 October, 4:00 – 7:00 PM Conference opening, panels 1 – 2

Saturday, 12 October, 9:00 AM – 5:00 PM: Panels 3 – 6

Sunday, 13 October, 9:00 AM – 5:00 PM: Panels 7 – 9

This is an open event; RSVP is not required



The **Gulf Architecture Month Lecture Series** will be held once a week during October in the Auditorium to complement the Gulf Architecture Month conference and exhibition on different aspects and dimensions of architecture past and present in the region.

Date: Every Wednesday during October starting 9 October

Time: 5:30 – 7:00 PM

Language: English

Target Audience: Academics, researchers, architects and students

This is an open event; RSVP is not required