The 11th Annual AUC Conference
for
Excellence in Undergraduate Research, Entrepreneurship and Creative Achievement

EURECA

Program Book
Acknowledgments

EURECA would like to extend special thanks to the following individuals and supporting units:

University Academic Computing Technologies – Mohamed Radwan for designing UR promotional material

Office of the Dean of Undergraduate Studies – Nancy Georgy for managing event-organizing and grant logistics.

Undergraduate Research Interns:
Menna Mansour, architectural engineering
Dina Mossaad, psychology
Salma Elnagar, philosophy
Mohamed Chokeir, mechanical engineering
Georgette Rizk, English and comparative literature
Mayar Abdelsalam, business administration
Sarah Ayad, architectural engineering
Menna Sheiha, economics
Nourhan Hashish, economics
Mira Khalifa, Actuarial Science
Salma Elbigurmie, philosophy
Mayar Abdel Bary, business administration
Hana Magued, business administration
Mahmoud Kholeif, English and comparative literature

Creatopia Organizing Team:
Hoda Mostafa, associate professor of practice and associate director, Center for Learning and Teaching
Fady Morcos, associate professor of practice and coordinator of Scientific Thinking, SSE
Maha Bali, associate professor of practice, Center for Learning and Teaching
Mahmoud Shaltout, adjunct faculty, School of Sciences and Engineering
Sherif Osman, senior officer, Pedagogy and Assessment, Center for Learning and Teaching
Omneya Kamal, instructor, Rhetoric and Composition

Undergraduate Research Advisory Committee
Alessandro Topa (Committee Chair), assistant professor, Philosophy
Salma Elnagar, student UR ambassador, Philosophy
Belquis Haider, student UR ambassador, Mechanical Engineering
Mohamed Serry, assistant professor, Mechanical Engineering
Marehan Omar, student UR ambassador, Rhetoric and Composition
Richard Byford, senior instructor, Rhetoric and Composition
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Aseel Osman, student UR ambassador, Political Science
Sean McMahon, assistant professor, Political Science
Kerolos Roshdy, student UR ambassador, Electronics
Dalia Fayek, student UR ambassador, Management
Rania Samir, assistant professor, Management
Alya El Marakby, student UR ambassador, Anthropology
Ramy Aly, assistant professor, Anthropology
Amira Badawy, student UR ambassador, Film/Art
Hoda Grant, senior instructor, Rhetoric and Composition
The AUC Conference for Excellence in Undergraduate Research, Entrepreneurship and Creative Achievement, organized by the Office of Undergraduate Research, within the Office of the Dean of Undergraduate Studies, provides a forum for presenting any “inquiry or investigation conducted by an undergraduate student that makes an original intellectual or creative contribution to the discipline” (Definition by the Council on Undergraduate Research)

It is an opportunity for students to share in the social construction of knowledge, sharpen critical and creative thinking and expression skills -- written, oral and visual -- and engage in interdisciplinary dialogue. It is also exemplary of the effort to integrate the “curricular” and the “co-curricular” student learning experience into a holistic framework.

Join us in celebrating their achievement
Message from the Director of Undergraduate Research

Dear presenters, guests and colleagues,

Welcome to the 11th Annual AUC Conference for Excellence in Undergraduate Research, Entrepreneurship and Creative Achievements (EURECA). This is an event, sponsored by the Dean of Undergraduate Studies, bringing together the AUC community and sister institutions in celebration of research and creative works at the undergraduate level. It is a gathering that finally gives prominence to hard work and scholarship that so often goes unacknowledged.

This year, we have 88 presentations from the disciplines of Arabic Studies, Biology, Construction Engineering, History, Political Science, Computer Science, Chemistry, Egyptology, Sociology, Architecture, Philosophy, and Comparative Religion. We have visiting presenters from Suez Canal University, and Gettysburg College in Southern Pennsylvania.

Special features of EURECA 2016 include the Posters on FYRE session, featuring First Year Research Experience, two Historical re-enactments, a Literary Salon, Undergraduate Research Scholars Circle meetings, and an experiential creative-thinking day - Creatopia - featuring workshops on Design-Thinking, Game Design, and Creating Comics, an exhibition of student artwork, architectural models, and innovative games, and, finally, a talent show.

Creatopia is organized by an incredible group of faculty and students. You have to attend Creatopia to understand their genius. Hoda Mostafa, Fady Morcos, Maha Bali, Mahmoud Shaltout, Sherif Osman, Omneya Hesham, Menna Mansour, Hana Magued and Dina Mossaad – thank you for your imagination and humor.

I would also like to recognize some very special people without which this conference would not be what it is. My respect and gratitude go to all of you - faculty members Alessandro Topa for chairing the Undergraduate Research Advisory Committee (whose dedicated members are listed on the front pages of this Program Book), Michael Reimer for organizing an impressive full-day of History presentations, Richard Byford for supporting faculty of First Year students, and Michael Gibson for sharing the fun of EURECA year after year; student interns of the Office of Undergraduate Research for promoting the conference, recruiting great presenters, organizing and moderating the sessions; and my ever-resourceful Program Assistant Nancy Georgy for supporting student scholars and managing OUR mega-events.

EURECA is an inter-disciplinary, inter-institutional, inter-national, multi-cultural, multi-lingual, multi-modal, but unifying undergraduate experience.

We hope that you find the conference as enriching and exciting as its preparation has been for all of us.

Amani Elshimi
Director of Undergraduate Research
# EURECA11 Conference Program

**Sunday April 17, 2016**
Prince Alwaleed Bin Talal Bin Abdulaziz Al Saud Hall P071

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>9:00 – 9:30</td>
<td><strong>Orientation to student participants</strong>&lt;br&gt;   This is a meeting for EURECA presenters with the organizers for tips, guidelines and acculturation to the conference environment.</td>
</tr>
</tbody>
</table>
| 9:30 – 11:30| **Panel 1: Center for Arabic Studies Abroad (CASA)**<br>Presentations in Arabic<br><br>**Samual Ward-Packard**<br>"المناقشة: أداة قيمة لتنمية التعليم في مصر"
<br>**Anna Levett**
"Documenting Surreal Cairo: An Academic and Creative Project"
<br>**Michael Ernst**
"حكايات طريفة والغرب في السينما المصرية"
<br>**Annie Weaver**
"تمكين المرأة العربية عن طريق الوسائل الإلكترونية"
<br>**Clare Duncan**
"Creating a Research Base on Law and Society in Egypt"

| 11:30 – 12:45| **Conference Opening**<br>Welcome Note - Amani Elshimi, director of undergraduate research<br>Dean’s Welcome Note - Robert Switzer, dean of undergraduate studies|<br>**Featured Presentations:**<br>**Hassan Elzawy**
"Multi-facets of Feline Deities: Looking at Bastet and Sekhmet" (Egyptology)<br>**Henry Clements**
"نتاج المنسوجات في مصر في القرن التاسع عشر في عيون علي مبارك" (CASA)<br>\textit{Presentation in Arabic with English overview}<br>**Posters Session**<br>**Malak Sekaly**
"Egypt’s HIV Positive Individuals: An Analysis of Stigmatization"
<br>**Nour Eissa**
"Sudanese Migrant Education in Egypt: Are Ethnocentric Schools a Solution?"
<br>**Marwa Alzubairi**
"Mental Health in Egypt: Between Silent Cries and Invisible Resources"
<br>**Karim Attiatalla**
"Young African Refugees: Regaining Self-Esteem through Organized Sports"
<br>**Ahmed El Meery**
"Egypt’s Sightless Minority: The Rights of the Visually Impaired" |
| 1:00 pm – 1:50 pm| **Conference Opening**<br>Welcome Note - Amani Elshimi, director of undergraduate research<br>Dean’s Welcome Note - Robert Switzer, dean of undergraduate studies|<br>**Featured Presentations:**<br>**Hassan Elzawy**
"Multi-facets of Feline Deities: Looking at Bastet and Sekhmet" (Egyptology)<br>**Henry Clements**
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<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Causes and Effects of Drug Consumption in Egypt: A Post-Revolution</td>
<td>Abdelwadood Asfour and Nada Damaty</td>
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<tr>
<td>Analysis</td>
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<tr>
<td>Education at Zabaleen: Between Child Labor and The Right for</td>
<td>Hany Hawash</td>
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<td>Education</td>
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<td>New Insights into Child Marriage from the Perspective of Men</td>
<td>Nour Elhouda Bouzahzah and Mohamed Najjar</td>
</tr>
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<td>Female Political Silence: By Choice or By Force?</td>
<td>Reham El Morally</td>
</tr>
<tr>
<td>Mechanism of Decision-Taking in the Security Counsel</td>
<td>Arsany Naiim</td>
</tr>
<tr>
<td>Foreign Aid and Democratization</td>
<td>Yasmine Hafez</td>
</tr>
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<td>Synthesis and Anticonvulsant Activity of Some Thiazolidin-4-One</td>
<td>Mohamed Abuzaid, Reem Kamel and Alaa Elshaffei (Suez Canal University)</td>
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<tr>
<td>Derivatives</td>
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</tr>
<tr>
<td>Architectural Design Exhibition</td>
<td>Menna Mansour - &quot;Performing Arts Center&quot;</td>
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<tr>
<td>Performing Arts Center</td>
<td></td>
</tr>
<tr>
<td>Structural Model and Drawings</td>
<td>Nadia Aboutaleb</td>
</tr>
<tr>
<td>Amusement Park and Hotel: A Typology</td>
<td>Omar El Feki</td>
</tr>
<tr>
<td>Environment-Friendly Architecture: Pavilion and Research Center</td>
<td>Farah Abdel Aziz</td>
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<tr>
<td>Urban Architecture</td>
<td>Ahmed Sakr</td>
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<td>Human-Scale Pavilion</td>
<td>Christine Matta</td>
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<td>Foreign Aid and Democratization</td>
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<td>Titania Nanotubes (TNT) with Gold Nano Particles for Solar Energy</td>
<td>Dina Eissa and Salma Emara</td>
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<td>Conversion</td>
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<td>Developing Al-Sharabia through Infrastructure Planning and Design</td>
<td>Yasser Khalidi</td>
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<td>Oil Production, Refining and Renewable Energy Consumption: Socio</td>
<td>Ahmed Hafez</td>
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<td>Economic Indicators</td>
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<td>Serving the Unserved: Independent Sanitary Systems for Remote and</td>
<td>Bassma Hassan</td>
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<td>Deprived Hamlets</td>
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**Panel 2: Computer Science**

2:00 – 3:15

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>Filling a Gap in the Computer Science Curriculum: Optimization</td>
<td>Safaa Mohamed</td>
</tr>
<tr>
<td>Algorithms</td>
<td></td>
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<tr>
<td>Natural Language Processing (NLP) Applications in Essay-Based</td>
<td>Ramy Omar</td>
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<tr>
<td>Assessments</td>
<td></td>
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<tr>
<td>Parallel Algorithms and Programming as a Course</td>
<td>Youssef Rehab</td>
</tr>
</tbody>
</table>

**Panel 3: Physics/Engineering**

3:30 – 4:45

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<tr>
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COME ON DOWN TO CREATORIA
MONTDAY APRIL 18TH 2016 WALEED HALL P071

9:45 am - 11:30 am
GAMECHANGERS

Learn how to hack a game and understand the basics of game design and game mechanics.

11:30 am - 2 pm
THINKERING STUDIO

Learn how to think like a designer by responding to a specific design challenge and drafting a prototype.

CREATIVE COMMUNITY CARNIVAL @ 12:45 - 3 pm

MUSIC, ART, DRAWSpaces, TBS COURTYARD

ON DISPLAY @ 1 - 3 pm TBS COURTYARD

Playtesting student games

ONCE UPON A TIME @ 2 - 3 pm TBS COURTYARD

Unleash your inner comic artist by creating your very own comic in a very pictionary-esque way.

STUDENT TALENT SHOW @ 4:30 - 7:30 pm

Cartoon by: Mahmoud Shaltout, core teaching fellow, school of sciences and engineering
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>9:45 - 11:30</td>
<td>**Student Workshop</td>
<td>Playlab: GameChangers**: Game Design</td>
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<td>11:30 - 2:00</td>
<td><strong>Student Workshop</strong></td>
<td>T(h)inkering Studio: Design Thinking for Creativity</td>
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<td>12:45 pm - 3:00 pm</td>
<td><strong>Creative Community Carnival</strong>: Music, artwork, architectural models, caricature, play-spaces, draw-spaces, and more</td>
<td>Courtyard outside P071</td>
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|             | **Artwork Participants**:  
Sarah Shebl - "Pattern Inspired by Touni’s Work"  
Sally Elfishawy - “Simply Acquainted”  
Gannah Elsabbagh - “Modern Coptic Artwork”  
Salma Elnagar - “Utopia and Dystopia”  
Mohamed Ibrahim - “Comic Book Illustrations” |                |
|             | **Architectural Design Exhibition**: “Made in Egypt: The Global Village” |                |
|             | Nour Hussein, Zeina Lasheen, Mariam Barsoum, Sandra Saad, Reem Gamil  
Yara Adly, Moshira Ayad, Rehab Ahmed, Yara Saleh  
Rana Nabhan, Rowan Soliman, Hana Shoukri, Malak Seoudi |                |
<p>|             | <strong>On DisPLAY: Playtesting and Student Game Showcase</strong> | 1:00 – 3:00, P071 |
|             | <strong>Once Upon A Toon: A Comics Workshop</strong> | 2:00 – 3:00, Courtyard outside P071 |
| 4:30 - 7:30 | <strong>Student Talent Show: RHET’s Got Talent</strong> | P071           |</p>
<table>
<thead>
<tr>
<th>Time</th>
<th>Panel 4: Jewish History and Zionism</th>
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</thead>
<tbody>
<tr>
<td>8.45 - 9.40</td>
<td>Emilia Marzouk</td>
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<td>“The Effect of the 1881 Pogroms in Russia on Jews”</td>
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<td>Karen Fanous</td>
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<td>“The Response of U.S. Jewry to the Balfour Declaration”</td>
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<td>Salma El Refaei</td>
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<td>“Jewish and Zionist Reactions to the British White Paper of 1939”</td>
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<td>Dalia Abushady</td>
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<td>“Anti-Semitism in the U.S., 1956-1960”</td>
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<tr>
<th>Time</th>
<th>Panel 5: Confessional Identities/Institutions and the State in the Modern ME</th>
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<tbody>
<tr>
<td>9:45 – 10:40</td>
<td>Aseel Azab-Osman</td>
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<td>“Les Phalanges Libanaises: Identity Construction and Perception of the Self and Other”</td>
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<td>Ingy Higazy</td>
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<td>“The Possibility of Lebanon: Economic Empowerment, Social Change, and the Founding of Greater</td>
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<td>Lebanon, 1860-1920&quot;</td>
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<td>Sara Al Mahbashi</td>
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<td>“Ansar Allah Journey”</td>
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<td>Yosra Hussein</td>
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<td>“Al-Azhar in the Shackles of the Modern State”</td>
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<tr>
<th>Time</th>
<th>Panel 6: The History of Education in Egypt</th>
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<tbody>
<tr>
<td>10:45 – 11:40</td>
<td>Lara Adly</td>
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<td>“The Power of Primary Sources: Analyzing a Western Discourse about Education in Colonized Egypt”</td>
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<td>Ahmed Barakat</td>
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<td>“The Future of Education in the Past”</td>
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<td>Omar El Sherbiny</td>
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<td>“Education in North Sinai, 1930s-1960s”</td>
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<td>Reem Badr</td>
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<td>“Public Education in Nasir’s Egypt: Between Urban and Rural, and Oral Narrative Analysis”</td>
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<th>Time</th>
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<tr>
<td>11:40 – 12:00</td>
<td>LUNCH</td>
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Historical reenactments of Court Cases and Legislative Debates from 1920s, Egypt by students of Professor Hanan Kholoussy's Marriage Crisis in the Middle East course

THE COURT CASES

The Setting: It is the 1920s Cairo. Egypt still has not achieved full independence from Great Britain, although Egyptians are running their internal affairs, especially their legal systems. The country is on the brink of the Great Depression and most Egyptians are suffering from low wages, high inflation, and rising costs of living. Many are noticing the rapid changes affecting the country. The government is on a mission to ‘modernize’ Islamic laws. The middle and upper classes are sending their daughters to schools en masse. More and more women appear on the streets of Cairo and Alexandria unveiled, inspired by Huda Sha'rawi’s women’s movement and removal of her veil a few years earlier. The pages of the press are covered with debates over marriage crises, scandalous cases in the Islamic courts, campaign to abolish prostitution, economic depression, and domination of the British over Egyptian affairs. People of all classes continue to marry, divorce, and raise children the best they can in these tumultuous political, social, and economic times.

Case 1: Twelve-year old Abla and thirty-year-old Mohsen, a medical doctor, married in 1918 and had 2 children together: Taymur and Halima. Eleven years later, Abla Hanim discovers Dr. Mohsen Bey secretly married a second wife, Annette, who is a British nurse. Dr. Mohsen Bey and Annette registered their marriage with both the ma'dhun and with the British consul. Abla Hanim, who had been married off to him as a minor by her father, wants a divorce. Dr. Mohsen Bey resists initially because he does not want his family to suffer. He eventually concedes in court but only if Abla Hanim agrees to surrender her divorce alimony and delayed dower.

The Characters:
1. Judge: Hana Heiba
2. Abla Hanim, the Plaintiff: Nadine Kamaly
3. Dr. Mohsen Bey, the Defendant: Taghreed Soliman
4. Annette, the British nurse: Mirette Tawfik
5. British consul: Ali Kafafi
6. Plaintiff’s wakil/lawyer: Amaal Idheileh
7. Ma’dhun: Sheriff El Hennawy
8. Scribe: Farida Youssef

Case 2: (Read Case 1 for background). Abla Hanim has custody of the children but when she falls in love with her son’s teacher, Ahmed Effendi, and decides to marry him the year after her divorce, her ex-husband and her father protest. Her ex-husband attempts to wrestle custody of the children on the basis of her remarriage. Plus he has already begun arranging the marriage of their 11-year old daughter Halima to his neighbor’s son, 25-year old Salim Bek who has just returned from his studies in France. Abla Hanim’s father, Abdelhamid Basha who is a landowning pasha, also protests his daughter’s remarriage to a man beneath her social status. Abla Hanim does not want to lose custody of her children and have them raised by a lower-class British stepmother.

The Characters:
1. Judge: Mariem Afifi
2. Dr. Mohsen Bey, the Plaintiff: Adham Giratallah
3. Abla Hanim, the Defendant: Karima Fahmy
4. Halima, the 11-year old daughter: Sarah El Kady
5. Abdelhamid Basha, Abla Hanim’s father: Adel Abdel Wahab
6. Ahmed Effendi, the teacher: Rana Eid
7. Scribe: Jomana Abdelkader
THE LEGAL DEBATES

The Setting: It’s 1920s Cairo. Egypt still has not achieved full independence from Great Britain, although Egyptians are running their internal affairs, especially their legal systems. The country is on the brink of the Great Depression and most Egyptians are suffering from low wages, high inflation, and rising costs of living. Many are noticing the rapid changes affecting the country. The government is on a mission to ‘modernize’ Islamic laws. The middle and upper classes are sending their daughters to schools en masse. More and more women appear on the streets of Cairo and Alexandria unveiled, inspired by Huda Sha’rawi’s women’s movement and removal of her veil just a few years earlier. The pages of the press are covered with debates over the marriage crisis, the scandalous cases in the Islamic courts, the campaign to abolish prostitution, the economic depression, and the domination of the British over Egyptian affairs. People of all classes continue to marry, divorce, and raise their children the best they can in these tumultuous political, social, and economic times.

Debate 1: Law 25 of 1920 on Female-Initiated Divorce

The Characters:
1. Shaykh al-Azhar: Sara Abdeldaim
2. Shaykh of the Maliki School of Islamic law: Hagare Ramadan
3. Head of the Supreme Shari’a Court: Merna Wahba
4. Minister of Justice Ahmad Dhul-Fiqar: Myriam Tawadros
5. President of Cabinet of Ministers (secular politician): Dina Ali
6. Qasim Amin (from the grave): Jasmine Williams
7. Huda Sha’rawi: Ingi Rashed
8. Sultan Fu’ad: Mohamed Hafez

Debate 2: 1926 Legislative Proposal to Limit Polygamy

The Characters:
2. Shaykh of the Maliki School of Islamic law: Yehya Abouelnaga
3. Head of the Supreme Shari’a Court: Mark Fattal
4. Minister of Justice Zaki Abu al-Sa’ud: Mohamed Ali
5. President of the Cabinet of Ministers (secular politician): Ali Saeed
6. Huda Sha’rawi: Shaza Elewa
7. King Fu’ad: Aly El Miligui
# Panel 7: Interwar Europe and World War II

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenters</th>
</tr>
</thead>
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| 1:45 – 2:40 | Panel 7: Interwar Europe and World War II | Sherif El-Hennawy  
“The Downfall of Nazi Germany”  
AbdelRahman Badawy  
“The Stalin Era: Economic Prosperity through Oppression”  
Seif Hendy  
“The Effects of the *Volksgemeinschaft* Campaign on the Working Class”  
Mohamed Alserkeek  
“Pearl Harbor” |

# Panel 8: In the Company of Talaat Pasha: Bank Misr, 1920-1939

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenters</th>
</tr>
</thead>
</table>
| 2:45 – 3:20 | Panel 8: In the Company of Talaat Pasha: Bank Misr, 1920-1939       | Hazem Elessawy  
“The Road to Industrialization: Parallels and Differences in Vision and Method of Bank Misr and the South Korean State”  
Ziad Arbad  
“Talaat Harb’s Bank Misr: On Egyptian Economic Development” |

# Panel 9: Egypt under Nasser

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenters</th>
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</thead>
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| 3:30 – 4:50 | Panel 9: Egypt under Nasser                                           | Seif Hendy  
“State and Labor Relations in the Nasir Period”  
Adel Abdelwahab  
“Politics of Deviance”  
Mennatallah Abdelrahman  
“Egypt under Nasir: From the Eyes of Salah Jahin and Ahmed Fu’ad Negm”  
Maryam Fouad and Yasmine Mehanna  
“Torture and the Egyptian Police State” |
<table>
<thead>
<tr>
<th>Time</th>
<th>Panel/Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:15 – 11:15</td>
<td><strong>Panel 10: Social Sciences</strong></td>
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<td>Salma El Refaei “Ethnic Conflict and State Fragility: An Investigation”</td>
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<td>Sarah Zalata “The Use of Franco-Convo and its Effect on the Writing Skills of AUC Students”</td>
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<td>Hood Ahmed “Incentive and Accountability in Egypt’s Social Expenditure”</td>
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<td>11:30 – 12:45</td>
<td><strong>Panel 11: Comparative Religion</strong></td>
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<td>Sara Mahbshi “Female Deities across the Atlantic”</td>
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<td>Salma Elnagar “Religious Reformation: Sincere or Compromising?”</td>
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<td>Lujain Meligy “Compatibility between Sharia and Egyptian Law: Personal Status Law Case Studies”</td>
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<td>Mohamed Elshafie “When the Thinking had to Stop: Reflections on Post-Modern Nihilism and the Origins of Islamic Terrorism”</td>
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<td>1:00 – 1:50</td>
<td><strong>UR Scholars Circle:</strong> Enhancing UR Research in Business and the Liberal Arts</td>
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<td>Open discussion with undergraduate students and faculty mentors</td>
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<td>Facilitated by Professor Alessandro Topa</td>
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<td>2:00 – 3:15</td>
<td><strong>Panel 12: Philosophy</strong></td>
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<td>Yossra Hamouda “Towards a Non-Objective Solution to the Problem of Other Minds”</td>
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<td>Salma Elnagar “Is Psychology a Science?”</td>
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<td>Hadeel Suleiman “Analysis of the Fight for Ramlet Bulaq”</td>
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<td>Jerome Clarke “Black Praxsi: The Trace of American Pragmatism in DuBoisian Scholar Activism”</td>
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<td>3:30 – 5:00</td>
<td><strong>Panel 13: Literary Salon:</strong> Readings and Reflections of Original Creative Writing</td>
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<td>Menna Mansour – “The ‘Mansour’ Home Museum”</td>
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<td>Haisam Elkewidy – “Heaven on a Wire”</td>
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<td>Georgette Rizk – “A Glance; A Piece of Paper”</td>
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<td></td>
<td>Khaled Abdellatif “قصائد فصحى و عامية”</td>
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<td>Christina Matta – “Shadow”</td>
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<td>Omar Soliman – “Old Clothes”</td>
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<td>10:00 – 11:15</td>
<td><strong>Panel 14: Biomedical Research I</strong>&lt;br&gt;Yomn Abdullah&lt;br&gt;“Spinal Cord Injuries: A Comparison of Anti-Inflammatory Agents”&lt;br&gt;Sara Elsayed and Sara Aziz&lt;br&gt;“The Effect of Curcumin Administered through Injection or as a Dietary Supplement on Spinal Cord Injury”&lt;br&gt;Ahmed Ghandour&lt;br&gt;“Liver Fibrosis and Bio-Marker Testing”</td>
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<tr>
<td>11:30 – 12:45</td>
<td><strong>Panel 15: Biomedical Research II</strong>&lt;br&gt;Manon Ragheb&lt;br&gt;“Testing a Novel Version of the Chemotherapeutic Agent Oxaliplatin on Cancer Cells”&lt;br&gt;Salma Fahim&lt;br&gt;“Assessment of the Biological Activity of Platinum-Based Drugs on Tumor Cells Following Different Methods of Delivery”&lt;br&gt;Aya ElSerw&lt;br&gt;“Molecular Analysis of Epithelial Ovarian Cancer”</td>
</tr>
<tr>
<td>1:00 – 1:50</td>
<td><strong>UR Scholars Circle:</strong>&lt;br&gt;Enhancing UR Research in Science, Technology, Engineering and Mathematics&lt;br&gt;Facilitated discussion with undergraduate students and faculty mentors</td>
</tr>
<tr>
<td>2:00 – 3:30</td>
<td><strong>Panel 16: Environmental Science Research</strong>&lt;br&gt;Hana Heiba&lt;br&gt;“A Parent Behavioral and Prey Analysis of the Common Kestrels”&lt;br&gt;Hussein Sakr&lt;br&gt;“Screening of Red-Sea Brine Metagenomic Fosmid Libraries for Bioactive Compounds”&lt;br&gt;Hager Elsheikh&lt;br&gt;“The Role of Squids in the Diet of Indo-Pacific Bottlenose Dolphins in the Red Sea”&lt;br&gt;Shahd Ezz El Din&lt;br&gt;“Bacterial Resistance of Escherichia Coli to Mercury Chloride by Mercuric Reductase”</td>
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</table>
Mark Your Calendar!

The 12th Annual EURECA Conference
March 26 – 30 (P017)
or
April 2 – 6, 2017 (Moataz Al Alfi Hall)

Call for Abstracts
Deadline January 31, 2017

http://conf.aucegypt.edu/eureca12
(coming soon)
The Office of Undergraduate Research
Program Profile

Awakening the spirit of inquiry, engaging in creative adventure

The Office of Undergraduate Research is a unit within the Office of the Dean of Undergraduate Studies.

Its mission is to

- institutionalize, support and expand opportunities for undergraduate student research and creative achievement
- nurture amongst the academic community, across the disciplines, a culture of research and development, and the drive to advance the liberal education outcomes of undergraduate inquiry and critical and creative competence

The Office of Undergraduate Research envisions a vibrant, undergraduate-centered campus that fosters independent, creative, life-long researchers, passionate for innovation and the sharing of knowledge.

Recently the new Program acquired membership at the Council on Undergraduate Research (CUR) – an organization of over 900 higher education institutions, seeking to promote and enhance undergraduate research on their campuses. CUR defines undergraduate research as:

“An inquiry or investigation conducted by an undergraduate student that makes an original intellectual or creative contribution to the discipline.”

The Office of Undergraduate Research currently runs a number of activities to promote and support student original works:

- Undergraduate Grant Support
- The Annual Conference for Excellence in Undergraduate Research, Entrepreneurship and Creative Achievement (EURECA)
- The Undergraduate Research Journal (URJe)
- The Newsletter for Undergraduate Research (NUR)
- Undergraduate Research Experiences across the Disciplines (UREAD)
- UR Scholars Circle
- iResearch Online Workshops

To learn more, visit OUR websites at:

Public Website:
http://aucegypt.edu/research/undergraduate-research

Internal AUC Website with login:
http://in.aucegypt.edu/research-auc/office-undergraduate-research

Email: uresearch@aucegypt.edu
Funding Opportunities for Student Research Activity

The Undergraduate Grants Support Program offers funding for undergraduate students’ original research or creative work. All full-time undergraduate students are eligible for grant application. These grants are managed by the Office of the Office of Undergraduate Research. Students who receive grants must submit a financial/academic report within the same semester of receiving the grant. Please read all the following guidelines very carefully if you wish to apply for funding support. More information available at http://in.aucegypt.edu/research-auc/office-undergraduate-research/funding-opportunities

TYPES OF GRANTS
There are 3 types of grants, currently, available.
1. Travel Grants
   Travel Grants support the payment of expenses incurred by travel to national, regional and international conferences, exhibitions, competitions, or other reputable events. These may be recognized professional events, or recognized undergraduate research events. Students attending conferences as a group will share the grant.

   Maximum amounts awarded to applicants are $1800.00 for students giving presentations. Owing to factors such as cost of attendance, availability of funds, and the number of applications received, the amounts awarded will vary, and you may or may not be awarded the full amount you request.

   Students may be awarded no more than once a year, and priority will be given to those who have not received prior funding.

   Conference presentations of research involving humans must attach approval from the Institutional Review Board (IRB), applied for by the student’s instructor. Please review the Policy and Procedure Regarding Use of Human Subjects for Research at AUC: http://aucegypt.edu/research/research-administration/institutional-review-board

2. Mini Grants
   Up to $500 per research/creative project may be applied for to assist with expenses such as the costs of reprints (for a limited number of articles, not for books), supplies and services, the cost of data that must be purchased from external sources, rental of equipment, relatively small materials costs related to research or creative works.

3. Research Internship Grants
   These are funds to partially support summer or winter travel to work on a research project abroad or with a faculty researcher at an international university. The maximum amount that may be given, based on available funds, is $2000. The student applicant needs to have prior research training, and needs to have contacted the host university/research center her/himself.

SUPPORTING DOCUMENTS
A student applying for a grant must attach to the application form items as appropriate:
1. Letter of acceptance of presentation in the conference/event
2. Invitation letter from faculty researcher abroad for internships
3. Faculty recommendation letter from AUC faculty member for all applicants
4. Letter of Institutional Review Board (IRB) approval for human subject research
5. Other relevant documents and information

APPLICATION PROCESS:
Application forms are completed and submitted online, using the appropriate form on http://uresearchgrants.aucegypt.edu
Mary Soliman  
Department of Construction Engineering  
“Solution Model for Urban Traffic Congestion”  
Travel Grant: $700  
Conference: CSCE Annual Conference  
Location: Canadian Society for Civil Engineering, Ontario, Canada  
Faculty advisor: Professor Safwan Khedr

Malak Ismail, John Shaker, Saif Mahgoub, Karim Ayad  
Department of Mechanical Engineering  
“Parking Lot Control System”  
Mini Grant: $500  
Faculty advisor: Professor Habib Maki

Noman Ahmed Ashraf  
Department of Political Science  
“Saudi Arabia’s Coalition: A New Card in the Deck”  
Travel Grant: $700  
Conference: National University Model Arab League  
Faculty advisor: Professor Walid Kazziha

Souhaila Aboutaleb  
Department of Mechanical Engineering  
“Analyzing Design Data Obtained on Robotics”  
Research Internship Grant: $1600  
Location: Harvard University, Boston, USA  
Faculty Host: Professor Fawwaz El Habbal, Applied Physics, Harvard University

Myss Semeida, Nadine Mahboub, Nouran El Laithy  
Department of Construction Engineering  
“Using Recycled Plastic to Modify Asphalt Pavements”  
Travel Grant: $1800  
Conference: CSCE Annual Conference  
Location: Canadian Society for Civil Engineering, Ontario, Canada  
Faculty advisor: Professor Safwan Khedr

Ahmed Hassanein, Eman Shalaby, Reem Oraby  
Department of Construction Engineering  
“Self-Leveling Mortar”  
Travel Grant: $1800  
Conference: CSCE Annual Conference  
Location: Canadian Society for Civil Engineering, Ontario, Canada  
Faculty advisor: Professor Mohamed Abou Zeid

Sama Mahmoud, Ahmed Romaih  
Department of Construction Engineering  
“Design of Overhanging Cantilevered False-work”  
Travel Grant: $1400  
Conference: CSCE Annual Conference  
Location: Canadian Society for Civil Engineering, Ontario, Canada  
Faculty advisor: Professor Mohamed Darwish
Karima Ragab, Kanzy Mahmoud  
Department of Journalism and Mass Communication  
“Student Audio Competition: Educational Program Category”  
Travel Grant: $1400  
Conference: Broadcast Education Association Media Festival of Arts  
Location: National Association of Broadcasters, Las Vegas, USA  
Faculty advisor: Professor Kim Fox

Hany Hawash  
Department of Construction Engineering  
“Media Academy”  
Travel Grant: $700  
Conference: Global Engagement Summit  
Location: Northwestern University, Illinois, USA

Safaa Magdy Abdel Baky  
Department of Journalism and Mass Communication  
“The Quest: Where do Muslims fit Best?”  
Travel Grant: $700  
Conference: Broadcast Education Association Media Festival of Arts  
Location: National Association of Broadcasters, Las Vegas, USA  
Faculty advisor: Professor Kim Fox

Zeinab Kabil  
Department of Management  
“Seeds for Social Change in Upper Egypt”  
Travel Grant: $700  
Conference: Global Engagement Summit  
Location: Northwestern University, Illinois, USA

Omar Elkafrawy  
Department of Political Science  
“Saudi Arabian Policy in the Council on Arab Social Affairs Ministers in the Arab League”  
Travel Grant: $700  
Conference: National University Model Arab League  
Faculty advisor: Professor Walid Kazziha

Hebatallah Fouad, Refan AbdelNabi, Nadine Awadalla  
Department of Journalism and Mass Communication  
“The Rundown: New Age Tech”  
Travel Grant: $180  
Conference: Broadcast Education Association Media Festival of Arts  
Location: National Association of Broadcasters, Las Vegas, USA  
Faculty advisor: Professor Kim Fox

Mennatallah Elbassiouny, Basma Elbassiouny, Youssef Amin  
Department of Construction Engineering  
“Means To Produce Low Energy Concrete”  
Travel Grant: $1800  
Conference: CSCE Annual Conference  
Location: Canadian Society for Civil Engineering, Ontario, Canada  
Faculty advisor: Professor Mohamed Abou Zeid
Yomn Abdullah
Department of Biology
“Natural Anti-Inflammatory Drugs for Spinal Cord Injury”
Mini Grant: $500
Faculty Advisor: Professor Ahmed Abd Ellatif

Sarah Wassef, Sara Elsayed
Department of Biology
“The Dietary Effects of Curcumin as Anti-Inflammatory during Spinal Cord Injury”
Mini Grant: $500
Faculty Advisor: Professor Ahmed Abd Ellatif

Omar El Safty
Department of Mechanical Engineering
“Graphene Flagship: Safer and More Energy-Efficient Cars”
Research Internship Grant: $1600
Location: University of Sunderland, England
Faculty Host: Professor Mohamed Elmarakbi, Faculty of Applied Science

Ingy Higazy
Department of Political Science
Travel Grant: $700
Conference: Society for Socialist Studies 2016 - Congress of the Humanities and Social Scientists
Location: University of Calgary, Alberta, Canada
Faculty Advisor: Professor Sean McMahon

Shaza Mansour
Department of Journalism and Mass Communication
“Whatever Happened to Hope: Egyptian Youth Post-Revolution”
Travel Grant: $700
Conference: Society of Professional Journalists
Location: Connecticut, USA
Faculty Advisor: Professor Kim Fox

Mohamed El Meghalawy
Department of Mechanical Engineering
“Linear Fresnel for Steam Generation”
Mini Grant: $500
Faculty Advisor: Professor Mohamed Amr Serag El Din

Mohamed Elshafie
Department of Philosophy
“Maimon's Philosophical Project”
Travel Grant: $750
Conference: 20th Annual Pacific University Undergraduate Philosophy Conference
Location: Pacific University, Forest Grove, Oregon, U.S.
Faculty Advisor: Professor Richard Fincham

Fall 2015

Hazem Farrag, Ali Tarek Mohamed, Mina Sadek, George Noubar, Samual Nasralla
Department of Mechanical Engineering
“Plastic Scrap Disposal Optimized”
Mini Grant: $500
Faculty advisor: Professor Lotfy Gaafar
Ziad Arbad, Ali Shaker, Khaled Abdellatif, Mostafa Omar, Ahmed Nasser
Department of Mechanical Engineering
“Designing and Manufacturing a CNC Milling Machine with Arduino and Grbl”
Mini Grant: $500
Faculty advisor: Professor Mohamed Serry

Omar Elkhouly
Department of Electronics and Communication
“Remotely Operated Vehicle: The Underwater Robot”
Mini Grant: $500
Faculty advisor: Professor Habib Maki

Ahmed Refaat
Department of Computer Science and Engineering
“Robocup Small Size League Competition”
Mini Grant: $400

Sandi El Moghazi, Yehia Fahmy, Jaylan Elhalawani, Emad Rady, Farah Sarhan
Department of Mechanical Engineering
“Biomedical Implants: Redesigning Metal-on-Polyethylene Hip Implant for Reduced Wear”
Mini Grant: $500
Faculty advisor: Professor Hanadi Salem

Hesham Adel, Ahmed El Tonbary, Youssef El Gahawy, Sherif Fakher
Department of Petroleum Engineering
“Gas Hydrate: Production Optimization”
Mini Grant: $500
Faculty advisor: Professor Mohamed El Ahmady

Assem Abdel Hamid
Department of Mechanical Engineering
Competition: The Engineering and Commerce Case Competition
Travel Grant: $550
Location: Concordia University, Montreal, Canada
Faculty Advisor: Neveen Ahmed

Yara Ashraf Saleh
Department of Accounting and Finance
Competition: The Engineering and Commerce Case Competition
Travel Grant: $550
Location: Concordia University, Montreal, Canada
Faculty Advisor: Neveen Ahmed

Norhan Yehia Mostafa
Department of Electronics and Communications Engineering
Competition: The Engineering and Commerce Case Competition
Travel Grant: $550
Location: Concordia University, Montreal, Canada
Faculty Advisor: Neveen Ahmed

Yomna Hatem Gaafar
Department of Business Administration, Marketing
Competition: The Engineering and Commerce Case Competition
Travel Grant: $550
Location: Concordia University, Montreal, Canada
Faculty Advisor: Neveen Ahmed
Yossra Mohamad Mostafa Hussein Hamouda  
Department of Philosophy  
“Towards A Non-objective Solution To The Problem of Other Minds”  
Travel Grant: $1200  
Location: Michigan State University, Eastern Michigan, USA  
Faculty advisor: Professor Jason Blum

Spring 2015

Aya Mostafa Elserw  
Department of Biology  
“The expression pattern of miRNA-590-3P in epithelial ovarian cancer: Biomarker for ovarian cancer patients”  
Location: Annual International Conference on Biology, Athens, Greece  
Travel Grant: $1500  
Faculty Advisor: Professor Asmah Amleh

Islam Faisal Ibrahim  
Department of Computer Science and Engineering  
“Ensemble learning in black box optimization”  
Location: Genetic and Evolutionary Computation Conference, Madrid, Spain  
Travel Grant: $1200  
Faculty Advisor: Professor Mohamed Moustafa

Younna Elsherbiny  
Department of Integrated Marketing and Communication  
“The Campus as Community: Undergraduate Community Research and Action Projects Conducted on the College Campus”  
Location: University of Massachusetts Lowell, Lowell, MA  
Travel Grant: $1200  
Faculty Advisor: Professor Carrie Forden

Mohamed Elsewedy, Ahmed Omara, Hinar Awad and Fadila Ezzat  
Department of Mechanical Engineering  
“Designing unmanned, remote-controlled airships”  
Mini grant: $500  
Faculty advisor: Professor Mohamed Aly and Professor Mohamed Saad

Haitham Kandil  
Department of Chemistry  
“Extraction of Anti-Oxidants from Fava Beans”  
Mini Grant: $500  
Faculty Advisor: Mayyada Elsayed

Adam Ezroura, Ahmed Shalaby, Ramez Habib, Ramez Kiriakos, Maged Kiriakos  
Department of Mechanical Engineering  
“Design and manufacturing of an innovative 500W Mobile Wind Turbine Prototype”  
Mini Grant: $500  
Faculty Advisor: Khalil ELKhodary

Alaa Mohamed Abdou El Doh  
Department of Psychology  
“Cultural Considerations in Developing a Child Trauma Prevention Project For Egyptians Exposed to Violence”  
Travel Grant: $1400  
Conference: Society for Community Research and Action  
Location: University of Massachusetts Lowell, USA  
Faculty Advisor: Mona Amer
Ibrahim Sami El-Sayed
Department of Petroleum and Energy Engineering Department
“Applied Laser Drilling Technology: The Development of a Constant Rate of Penetration Drilling System”
Mini Grant: $350
Faculty Advisor: Seif Fateen

Mohamed Auf and Hossameldin Ali
Department of Construction and Architectural Engineering
“Using Styrene Butadiene Rubber and Isobutylene Isoprene Rubber as Asphalt Modifiers”
Travel Grant: $1800
Conference: Middle East Society of Asphalt Technologies Conference
Location: Dubai, United Arab Emirates
Faculty Advisor: Safwan Khedr

Muhammad Ahmed Farouk Ahmed ElGebali
Department of Mathematics and Actuarial Science
“A Combinatorial Interpretation of the LDU Decomposition of Totally Positive Matrices”
Travel Grant: $1500
Conference: Mathematical Association of America MathFest
Location: Washington DC, United States
Faculty Advisor: Nermine El Sissy

Mohamed Ashraf Kasbar
Department of Construction Engineering/ Construction Management
“Short Span Bridges”
Travel Grant: $1200
Conference: Canadian Society for Civil Engineering Annual Conference
Location: Regina, Saskatchewan, Canada
Faculty Advisor: Mohamed Darwish

Mohamed Ragab and Abdelrahman Shalaby
Department of Mechanical Engineering
“Unmanned Arial Vehicle with First Person View Specifications”
Mini Grant: $500
Faculty Advisor: Khaled El Ayat

Nazek Magdy Mahmoud Hassan
Department of Middle East Studies
“An Ethnography of Cairo Slums”
Travel Grant: $1000
Conference: Global Engagement Summit
Location: North Western University, Illinois, United States

Noor Akroush and Tariq Mahallawi
Department of Construction and Architectural Engineering
“Bond Reduction Factor for Reinforced Concrete Beams”
Travel Grant: $2000
Conference: Canadian Society for Civil Engineers Annual Conference
Location: Regina, Saskatchewan, Canada
Faculty Advisor: Ezzeldin Yazied
Omar Ahmed El Safty
Department of Mechanical Engineering
“The Theoretical Modeling of Graphene Composite Structures”
Research Internship Grant: $2000
Location: Sunderland University, United Kingdom
Faculty Advisor: Mohamed Serry

Tamima Elbashbisy
Department of Construction and Architectural Engineering
“Validation of the Long Term Pavement Performance Model for Egyptian Conditions”
Travel Grant: $1200
Conference: Middle East Society of Asphalt Technologies Conference
Location: Dubai, United Arab Emirates
Faculty Advisor: Safwan Khedr

Fall 2014

Omar Mohamed Abdelkhalek Omar
Department of Political Science
“Egypt’s Imagined Empire: Egyptian Perspectives on Sub-Saharan Africa in the Age of Colonialism”
Travel Grant: $1000
Conference: Undergraduate Research Workshop at the Middle East Studies Association
Location: Washington, DC., United States
Faculty Advisor: Julia Seibert

Sandi Nasser Fahmi El Moghazi
Department of Mechanical Engineering
“Vibration Energy Harvesting”
Mini Grant: $400
Faculty Advisor: Mustafa Arafa

Habiba Ahmed Helal Ahmed Soliman
Department of Biology
“Using Nanotechnology to Fight Antibiotic Resistance”
Mini Grant: $400
Faculty Advisor: Wael Mamdouh

Noor Suheil Akroush, Tariq Mahallawi, Mohamed Seif
Department of Construction Engineering
“Verification of Bond Reduction Coefficient (Kv) of Bonded Fibre Reinforced Polymers (FRP)” Mini Grant: $400
Faculty Advisor: Ezzeldin Yazeid

Hussam El Nashar, Nael Said, Marc Banoub, Carlos Repapis, Shahd Labib
Department of Mechanical Engineering “Solar-Driven Dessicant Cooling System”
Mini Grant: $400
Faculty Advisor: Amr Serag

Amr Elnashar, Youssef Naga, Amir Gohar, Maged Mansour, Mohamed Khalil
Department of Mechanical Engineering
“Solar-Powered Absorption Cycle with Heat Storage System”
Mini Grant: $400
Faculty Advisor: Mohy Mansour
Manel Chada Islam Benmahcene
Department of Computer Science
“How Can Civic Education in Algeria be Enhanced?”
Travel Grant: $400
Conference: The Second International Conference on Computational and Social Sciences
Location: Rize, Turkey
Faculty Advisor: Anthony Leone

Kareem Atef Mahmoud
Department of Construction and Architectural Engineering
Participation in the Fresh Connection Global Student Finals
Travel Grant: $400
Conference: APICS – International Conference and Expo
Location: New Orleans, US
Faculty Advisor: Ahmed Tolba

Hadeer Ahmed, Dina Nadeem, Aya Mahgoub
Department of Electronics and Communication Engineering
“A Quantitative Study of Wi Fi Interference on PRP-Zigbee”
Travel Grant: $1200
Location: Kuala Lumpur, Malaysia
Faculty Advisor: Hassanein Amer

Shereen Abouelazayem, Merna Abou Eita, Menatalla Rabie,
Department of Electronics and Communication Engineering
“TMR Sensors for Reliable S2A Architectures”
Travel Grant: $1200
Conference: ICUMT 2014 the 6th International Congress on Ultra Modern Telecommunications and Control Systems
Location: St. Petersburg, Russia
Faculty Advisor: Hassanein Amer

Omar Abdelaziz Elgammal
Department of Economics
Competition: The Engineering and Commerce Case Competition
Travel Grant: $500
Location: Concordia University, Montreal, Canada
Faculty Advisor: Niveen Ahmed

Ahmed Essam Amer
Department of Mechanical Engineering
Competition: The Engineering and Commerce Case Competition
Travel Grant: $500
Location: Concordia University, Montreal, Canada
Faculty Advisor: Niveen Ahmed

Abdelrahman Maged Ahmed
Department of Mechanical Engineering
Competition: The Engineering and Commerce Case Competition
Travel Grant: $500
Location: Concordia University, Montreal, Canada
Faculty Advisor: Niveen Ahmed
Abdelrahman Abozeid  
Department of Accounting  
Competition: The Engineering and Commerce Case Competition  
Travel Grant: $500  
Location: Concordia University, Montreal, Canada  
Faculty Advisor: Niveen Ahmed

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Spring 2014

Ramy El Adli  
Department of Mechanical Engineering  
“Solar Thermal Power Generation”  
Travel Grant: $780, LE 4500  
Conference: Conference of the International Journal of Arts and Sciences  
Location: Vienna, Austria

Dina Eissa  
Department of Chemistry  
*Fabrication of ZnO-Based Nanostructured Photoanodes for Solar Fuel Production*  
Mini Grant: $500

Nancy Salem  
Department of Journalism and Mass Communication  
“Best Practices for Audio Production”  
Travel Grant: $1100  
Conference: Broadcast Education Association – “Best of Festival” King Foundation Awards Ceremony  
Location: Nevada, United States

Nazly Abaza  
Department of Journalism and Mass Communication  
“Best Practices in Audio Documentary”  
Travel Grant: $1100  
Conference: Broadcast Education Association – “Best of Festival” King Foundation Awards Ceremony  
Location: Nevada, United States

Amira Khalil  
Department of Economics/History  
“The History of US Jews in the C20 and their Evolving Relationship to Zionism & Israel”  
Research Internship Grant: $1000, LE8000  
Research Venue: Library of Congress/Great Lakes Colleges Association  
Location: Washington, DC

Ahmed Amr Mohamed Hafez Abdelaziz  
Department of Petroleum and Energy Engineering/History  
“The History of US Jews in the C20 and their Evolving Relationship to Zionism & Israel”  
Research Internship Grant: $1000, LE8000  
Research Venue: Library of Congress/Great Lakes Colleges Association  
Location: Washington, DC

Heba Bahnassy  
Department of History  
“The History of US Jews in the C20 and their Evolving Relationship to Zionism & Israel”  
Research Internship Grant: $1000, LE8000  
Research Venue: Library of Congress/Great Lakes Colleges Association  
Location: Washington, DC
Alexandra Sarpakis  
Department of Political Science/History  
“The History of US Jews in the C20 and their Evolving Relationship to Zionism & Israel”  
Research Internship Grant: $1000, LE8000  
Research Venue: Library of Congress/Great Lakes Colleges Association  
Location: Washington, DC

Mohamed Mohsen Ali  
Department of Art/Music Technology  
“Documenting Arab Music Theory”  
Research Internship Grant: $2700  
Research Venue: Recording Workshop, Ohio State Board of Career Colleges & Schools  
Location: Chillicothe, Ohio

Ahmed Abdelsattar, Mohamed Elshenawy  
Department of Electronic Engineering  
“Testing Current Mode Two Input Logic Gates”  
Travel Grant: $1130, LE 4600  
Conference: International Symposium on Industrial Electronics, IEEE  
Location: Istanbul, Turkey

Mohamed ElMansoury, Karim Elghorab  
Department of Electronic Engineering  
“Simulative Verification of Parallel Redundancy in Wi-Fi-Based WNCS with OPNET”  
Travel Grant: $2700  
Conference: Canadian Conference on Electrical and Computer Engineering, IEEE  
Location: Toronto, Canada

Ahmed Emara & Rana Mohie El Din  
Department of Electronics Engineering  
“Testing Current Mode Two input Logic Gates”  
Travel Grant: $2700  
Conference: Canadian Conference on Electrical and Computer Engineering, IEEE  
Location: Toronto, Canada

Fatma Beder & Nour Eldeeb  
Department of Construction Engineering  
“Greener Concrete: Properties and Feasibility of Using Egyptian Limestone Cement in Portland Cement Concrete”  
Travel Grant: $400, LE14000  
Conference: Canadian Society for Civil Engineering Annual Conference  
Location: Halifax, Canada

Sherif Abdellah, Youssef Abou El Nour, Ahmad Baracat, Rafik Girgis  
Department of Electronics Engineering  
“Design of a Wireless Communication System for Unmanned Search and Rescue”  
Travel Grant: $2700  
Conference: 14th International Conference on Robotics, Control and Manufacturing Technology (ROCOM)  
Location: Kuala Lumpur, Malaysia
Fall 2013

Miriam Awny, Abdallah El Daour, Mark Ghali, Omar Abdelsalam, Omar Salman, Shereen Ramadan
Department of Mechanical Engineering
“Solar Powered Sterling Engine”
Mini Grant: $500

Sham Al-Zahabi
Department of Chemistry
“Application of TiO$_2$ in Sunblock”
Mini Grant: $500

Catherine Ouma
Department of Biology
“Cloning of Key Enzymes in Lignin Biosynthetic Pathway in Egyptian Clover”
Mini Grant: $500

Heba Hesham
Department of Economics
“Heya: The Women’s Initiative”
Mini Grant: $250

Sara Elsayed
Department of Biology
“African Refugee Women in Cairo: Inability to Access Medical Care”
Travel Grant: $130, LE 3180
Conference: Problematics in Cultural Landscapes in Lebanon and Cairo
Location: American University in Beirut, Lebanon

Lara Adly
Department of Psychology
“African Refugee Women in the Informal Sector: Empowered or Enslaved?”
Travel Grant: $130, LE 3180
Conference: Problematics in Cultural Landscapes in Lebanon and Cairo
Location: American University in Beirut, Lebanon

Nahla Petro, Iman Amer, Kareem Abouelwafa, Andrew Athanasious
Department of Mechanical Engineering
“Bio-signals Control of Lower Body Exoskeleton with Power Management System”
Mini Grant: $500

Mohamed Yassin, Ramy El Adli
Department of Mechanical Engineering
“Solar Heat Generation”
Mini Grant: $500

Bishoy George, Hosam Abdelglil, Mahmoud Bondok, Mahmoud Shihab
Department of Petroleum Engineering
“Applied Recovery Techniques: A Physical Experiment”
Mini Grant: $500
Salma Talaat, Political Science and Community Development
“Solar-Developing Egypt”
Faculty Supervisor: Professor Pandeli Glavanis

Abstract: Harnessing the power of the sun through solar panels – a sustainable source of renewable energy – will lead to solving the issues of electrification and water supply in Egypt. I conducted individual interviews and a focus group with the solar energy specialists of the Research Institute for a Sustainable Environment and other experts. I also carried out a survey to evaluate the AUC community’s acceptability to solar power in Egypt, and found out how much they know about the subject.

Reem Deif, Department of Psychology
“The Effects of Prenatal Alcohol Exposure on Prenatal and Neonatal Development”
Faculty Advisor: Professor Mona Amer

Abstract: This paper examines the effects of prenatal alcohol exposure (PAE) on prenatal and neonatal development from a biopsychosocial perspective. PAE has shown to contribute to various developmental problems during the prenatal and neonatal period with effects on a continuum ranging from minimal effect till perinatal death. I examine factors contributing to such impacts such as maternal age, time or exposure and dose. I also look at research examining impacts on the Central Nervous System (CNS), socio-behavioral development, mother-infant attachment, sensorimotor development in addition to cognitive aspects of development throughout lifespan. Although various intervention are available, the final conclusion is that abstinence is the only preventable measure against all the previously mentioned developmental problems.

Noor ElGhorab, Economic Development
“Egypt and Malaysia: Investment, Education and Economic Growth”
Faculty Advisor: Professor Samer Atallah

Abstract: Numerous economists have explained economic growth using multiple theories and models, many of which highlight the importance of the accumulation of physical and human capital as the main determinants of growth. This paper aims to study the effect of investment in physical capital and human capital on economic growth and income per capita in Egypt and Malaysia, then develop an inter-relationship between the two forms of capital. The paper argues, using evidence in the form of literature and data, that there is a strong connection between physical and human capital and that sustainable economic growth can only be achieved by investing in both stocks of capital. The paper therefore concludes with a policy recommendation vis-à-vis education in Egypt.

Marwan Sallam, Business and Political Science
“Cyber Warfare – International Security Intelligence”
Faculty Advisor: Professor Michael Goodman, Pembroke College, Cambridge

Abstract: This essay will investigate the cyber threats presented on UAVs, which are now the backbone of the US arsenal on the war on terror. In addition, it will assess whether the US government are taking serious measures to counter the threat that cyber warfare could implicates on their drone fleets. Finally, the paper suggests some policy recommendations to combat that threat.
Niyra Elklisly, Rhetoric and Composition, Freshman Research Writing
“The Impact of Extracurricular Activities in Egyptian Colleges on the Job Market”
Faculty Advisor: Amira Abdallah

Abstract: The research discusses the impact of extracurricular activities in Egyptian colleges on employability. In a comparative study of public and private universities, forty-eight Egyptian graduates took part in an online survey for a quantitative research to examine their involvement in these activities and how these activities reflected on their employment. Evidence suggests that extracurricular activities in private universities were more effective than in public universities due to the availability of funds. These differences may eventually affect the participants’ opportunities for employment.

Marwa M. Maklhof, Noha E. Fikry, Hana A. Hafiz, Ingy Farweez, Department of Psychology
“Implicit Self-Esteem as a Potential Link between Gender Identity Threat in Males and Attitudes towards Women in Managerial Positions”
Faculty Advisor: Professor Mona Amer

Abstract: This experiment investigated the effects of male gender threat on implicit self-esteem, and how that in turn may influence prejudices towards women in managerial positions. The Self-Esteem Implicit Association Test (IAT) was administered to 82 male undergraduate students prior to and after a gender threat intervention using false results on a measure of gender roles. After the gender threat intervention and IAT, respondents answered the Women as Managers Scale. Results showed that participants who received the gender threat intervention did not show significant differences in attitudes toward women in managerial positions compared to participants who were randomly assigned to the group that did not receive the gender threat. However, there was a significant positive relationship within the overall sample between implicit self-esteem and positive attitudes towards women in managerial positions.

Aseel Yehia Azab, Department of History
“Les Phalanges Libanaises: Identity Construction and Perception of Self and Other”
Faculty Advisor: Professor Mouannes Hojairi

Abstract: This paper studies the identity construction of the Lebanese Phalange Party, postulating that its view of the Other is deeply entrenched within its own development. Strongly regarded as a model of Fascist thought and action, the Phalange, as a popular manifestation of Maronite nationalist thought, Lebanonism, seems to be destined for eternal clash with a similarly endless Other, but this latter is not formulated on religious basis only: the conceptual idea behind the Other remains the same throughout the Kataeb’s history of conflict, but it faces changes as the nature of the threat to the Phalange’s political and economic interest changes. The Myth of the one, static Muslim Other, is challenged and deconstructed; and taking into consideration the traditional political and economic features of Lebanese society, their interplay with the state’s institutions, and the Phalange’s role as a tool of mobilisation, a more complex interpretation of the construction of the self and Other is presented.

Noha Ezzeldin Fikry, Department of Anthropology
“Narratives on Wheels: Mobility, Language, and Representation on Egyptian Roads”
Faculty Advisor: Professor Ramy Aly

Abstract: In this brief exploration, I try to look at a form of popular expression which is microbuses bumper stickers and to look more specifically at the statements printed on these stickers as a form of public expression, representation, and possibly resistance on the part of their agential producers--the vehicles' drivers. I provide a preliminary content analysis for some of the statements I gathered, as well as look at the context of production and dissemination of these stickers. Finally, I try to argue for regarding these statements as a conscious mode of self-expression and self-representation for people otherwise thought of as silent, or at least incompetent of representing themselves--consequently must be represented, and controlled.
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