



HEALTHY EARTH,
HEALTHY FOOD,
HEALTHY PEOPLE

ANNUAL REPORT 2015-2016



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PREFACE

Dear All,

The year 2016 marked the 150th anniversary of AUB's founding in 1866. The University was celebrated for its excellence in serving the region and for extraordinary achievements over the span of a century and a half, and for its 150th year of making a difference in many lives across the globe. At FAFS, we are proud to be part of a University that upholds excellence and encourages collegiality and teamwork, and over the years, concerted efforts at the Faculty have established it as the Faculty of Firsts, thus contributing to the legacy of AUB, nationally and regionally.

The academic year 2015-2016 was, yet again, another year of outstanding achievements at FAFS, and building on the Faculty's strategic priorities, we have progressed on many fronts.

At the academic level, the NFSC department submitted its self-study of the Nutrition and Dietetics Coordinated Program (NDCP) to ACEND (Accreditation Council for Education in Nutrition and Dietetics), in preparation for the upcoming site-visit in November 2016 for the reaccreditation of the program. The NFSC Department also successfully completed discussions with Sage Colleges, NY, USA for setting up an affiliation agreement that secures placement of future NDCP students in the Colleges' Dietetic Practicum. In affirmation to the ACEND accredited NDCP's success, six graduates of the program successfully passed the RD exam and received the US RD credential, thus becoming the first group of graduates of a nutrition and dietetics program in the region to receive this credential.

In alignment with its efforts of achieving Healthy Earth, Healthy Food, Healthy People, FAFS was the first in the region to develop three unique graduate programs that aim at capacity building where a societal need exists: 1) MS in food security in response to food inequality and growing hunger (launched in spring 2016), 2) MS in Food Safety in response to the growing scandals over food safety that erupted all over Lebanon as well as the region (launch date: fall 2017-2018), and 3) MS in Public Health Nutrition, jointly with FHS as a mean to battle under-nutrition, obesity and non-communicable diseases through strategies, policies and interventions at the community and population levels (launch date: fall 2017-2018).

In research, FAFS's achievements were reflected in the Faculty's sustained research profile and steadily progressing research funding, whereby faculty members secured financial support in the range of \$1.1M from internal, as well as national, regional and international public and private institutions, such as the Supreme Council of Health in Qatar, Nestec, Instituto Affari, UNDP, FAO, Zayed University, CNRS-Lebanon, ELANCO and ICARDA.





In addition, two faculty members were recognized for their noteworthy contributions to advances in scientific research: Dr. Omar Obeid received the CA and CC Rebeiz Award 2014 for his article “Timing of caffeine ingestion alters postprandial metabolism in rats”, while Dr. Youssef Abou Jawdeh received the National Energy Globe Award for his project “Production of Biodiesel from Algae in Selected Mediterranean Countries”.

Also, faculty members participated in regional and international fora, and collaborated with local, regional and international agencies such as FAO, IFPRI and Lebanese Landscape Association on projects, conferences and symposia, mainly under the themes of sustainable food systems and environment as well as food security.

During this period, the Faculty engaged in outreach activities with societal impact, highlights of which include organizing and hosting workshops for professionals and the public such as a one day workshop on “Nutrigenomics and Personalized Nutrition: Implications for the Dietetic Practice”, a 2-days workshop on “Basic and Advanced Carbohydrate Counting”, a ten-day course in Nutrition in Emergencies (NIE) (in collaboration with University College London), a workshop entitled “Develop Packaging into Profit, not an Extra Cost!” in collaboration with Euro-Lebanese Centre for Industrial Modernization (ELCIM) and the Lebanon Industry Value Chain Development Project, DAI, funded by USAID, and a Food Safety training, Level 2 Award in Food Safety (Basic Food Hygiene). In addition, the Food Security Program developed a project proposal in collaboration with the Food Security Center at the Universität Hohenheim, for the delivery of food security programming to support Lebanese and Syrian refugee children in a school-based setting in rural Lebanon and is awaiting final award of funding from the German Academic Exchange Service (DAAD).

The Faculty, and in line with its strategy to strengthen communication and promote interaction with the professional community and stakeholders, was honored this year with new members who joined the FAFS’s team as part of its External Advisory Board (EAB): Dr. Lamyia Tannous Khuri, (Professor of Nutrition), Mr. Michel Bayyoud (Founder and CEO, Boecker Group), Mr. Khaled Miqdadi (Director of Agrimatco) and Mr. Nabil De Freij (Minister).

FAFS’s continuous efforts to improve the Faculty’s infrastructure and facilities were supported by a generous pledge from Mr. Michel Bayyoud, FAFS advisory board member, towards the renovation and refurbishment of the AGRI 102 Lecture Hall, FAFS’s iconic auditorium.

With this introduction, I will leave you to read the details of what made this academic year such a successful one for FAFS. Ofcourse, all of which would not have been possible without the diligent efforts of faculty and staff and without the continued support of FAFS’s large family of friends and alumni.

Nahla Hwalla

Dean



TRANSFORMING THE STUDENT LEARNING EXPERIENCE



II . OFFICE OF THE DEAN

School of Agriculture
established

Agriculture degree and
diploma of Ingénieur
Agricole introduced

Technical Vocational
Training Program
initiated

1952



1953



LACBNA,
a nationally
complete plant
facilities
developed

1960

1963



1978

1981



1982



A. NON-ACADEMIC PERSONNEL

Ten non-academic employees serve at the Dean's office as per table 1 below:

Table 1: Non-Academic Personnel

Name	Title
Al Ashi, Dania	System Administrator
Chediak, Rola	Communications Officer
Haddad, Tharwat	Students Record Officer
Haidar, Imad	Junior Clerk
Houri, Laila	Financial Officer
Khoury, Wafa	Executive Officer
Koubayssi, Rabia	Assistant for Student Services
Nader, Samar	Assistant to the Dean (until June 2016)
Nakib, Nisrine	Administrative Assistant
Zeidan, Maya	Director of Continuous Academic Improvement

B. STANDING COMMITTEES

THE ADMINISTRATIVE COMMITTEE

Prepared by Ms. Wafa Khoury, Executive Officer

Membership

Nahla Hwalla, Chairperson
Mustapha Haidar
Shady Hamadeh
Lara Nasreddine
Rami Zurayk

Actions

The committee held 20 meetings throughout 2015-2016, and acted on the following:

1. Capital Budget

Approved priority requests submitted by FAFS Departments and AREC for the capital budget 2016–2017.

2. Graduate Assistants

Approved the appointment of graduate assistants in the various FAFS Departments for the Fall, Spring, and Summer terms. In addition, the committee approved the revised guidelines for appointment of graduate assistants at FAFS in relation to the total number of credits a GA is entitled to receive during his/her graduate studies.

3. 150th Anniversary Agenda and Program

Reviewed and discussed the FAFS agenda and program to contribute to AUB's 150th Anniversary.

4. Space

Reviewed and discussed possible plans to relocate to Reynolds other academic programs in addition to the LDEM program.

5. New Department at FAFS

Looked into the possibility of having a separate department that houses the social sciences at FAFS and nominated Drs. Ali Chalak, Giuliano Martiniello to serve

as members in an ad hoc committee to consider housing the social studies degrees in a separate department with Dr. Rami Zurayk serving as Chairperson.

6. Presentation on FAFS Enrollment Data for 2015-2016

Dr. Mohamad Abiad presented the FAFS enrollment data for the academic year 2015-2016. Committee members discussed various ways to increase FAFS students' enrollment including scholarships, financial aid, creating job opportunities and securing internships after graduation, and reaching out to alumni to raise awareness about the FAFS programs and degrees. The committee members asked Dr. Abiad to submit recommendations for enhancing enrollment at FAFS.

7. Presentation on Workload Data

Dr. Maya Nabhani, Director of Continuous Academic Improvement, presented workload data 2015-2016

summarizing course credits and number of students enrolled in the respective Departments at FAFS.

8. Presentation on FAFS Laboratory Strategy

Dr. Houssam Shaib, FAFS Laboratory Manager, presented FAFS labs strategy, shared his proposed vision and mission, and discussed the labs' SWOT analysis in details.

9. AREC

Dr. Mustapha Haidar, AREC Director, presented an updated financial assessment of AREC in addition to the proposed short and long-term strategy in order to maintain operations at AREC. The committee members also reviewed the possibility of converting AREC to a completely green energy facility.

THE ADVISORY COMMITTEE

Prepared by Ms. Wafa Khoury, Executive Officer

Membership

Nahla Hwalla, Chairperson
Issam Bashour
Shady Hamadeh
Omar Obeid
Ammar Olabi
Salma Talhouk
Rami Zurayk

Actions

The committee held 22 meetings throughout the period from September 1, 2015 to August 31, 2016, and acted on the following:

1. Faculty Research Leave

Approved the following applications: Fifteen short-term faculty development grants, two junior faculty research leaves, one periodic paid research leave, and forty four special leaves with pay.

2. New Appointments

- Recommended the appointment of five full-time professorial faculty members for the academic year 2016-2017: One Visiting Assistant Professor in Landscape Architecture at the LDEM Department, one Visiting Assistant Professor in Food Security, two Assistant Professors in Clinical and Sports Nutrition and Food Microbiology at the NFSC Department, and one Assistant Professor in Agribusiness Marketing and Management at the AGRI Department. All recruited faculty accepted joining FAFS for the AY 2016-2017.
- Considered departmental recommendations for part-time faculty member recruitment and approved the following appointments for the AY 2015-2016 and Fall 2016-2017: 16 in the NFSC Department, 26 in the LDEM Department, and 17 in the AGRI Department.
- Two faculty associates were appointed in the AGRI Department.
- Approved the nomination to appoint Dr. Imad Toufeili as Chairperson of the NFSC Department for a period of three years as of September 1, 2016.



3. URB Visiting Scholars

Approved the NFSC and the LDEM departmental recommendations to invite Drs. James Hill and Charles Waldheim as URB Visiting Scholars for a period of one week in Spring 2016.

4. FAFS External Advisory Board

Four new members joined FAFS's External Advisory Board (EAB): Dr. Lamy Tannous Khuri, (Professor of Nutrition), Mr. Michel Bayyoud (Founder and CEO, Boecker Group), Mr. Khaled Miqdadi (Director of Agrimatco) and Mr. Nabil De Freij (Minister).

5. Space

Reviewed and discussed FAFS space needs. The proposed plan for adding two floors to Wings A and B, and, having an additional floor at Reynolds for FAFS will be shared with the upper administration for approval.

ACADEMIC AND CURRICULUM STUDIES COMMITTEE (ACC)

Prepared by Ms. Rabia Koubayssi, Assistant for Student Services

Membership

Nahla Hwalla, Chairperson
Mohamad Farran, Coordinator of Undergraduate Studies
Ali Chalab
Shady Hamadeh
Lara Nasreddine
Ammar Olabi
Adib Saad
Rami Zurayk
Maya Nabhani Zeidan, Director of Continuous Academic Improvement
Registrar's Representative
Student Representative
Rabia Koubayssi, Secretary

Actions

The committee held 10 meetings throughout the period from September 1, 2015 to August 31, 2016, and acted on the following:

1. Course Offerings and Introduction of New Courses

Reviewed and approved the lists of course offerings submitted by the respective departments for Spring, Summer and Fall. The committee also approved the following new courses in both Landscape and Nutrition and Food Sciences programs:

- LDEM 214 "Landscape and Geomorphology" (3 cr.)
- NFSC 210 "Statistics in Nutrition and Food Sciences" (3 cr.)

2. Eligible Students to Go to AREC

Twenty one students from the Agriculture program were deemed eligible to go to AREC during Spring 2015-16; classes started on February 29, 2016 as scheduled.

3. Proposal for Joint Nutrition & Dietetics, and Nutrition & Dietetics Coordinated Degrees with Faculty of Medicine

Approved and recommended to the faculty the joint degrees in Nutrition and Dietetics and Nutrition and Dietetics Coordinated Program with the Faculty of Medicine. The joint degree would enhance graduates' employability and would give the programs better visibility. The degrees will be jointly signed by both the Dean of the Faculty of Agricultural and Food Sciences and that of the Faculty of Medicine.

4. Academic Status

Based on AUB probation rules and regulations, the committee dropped 10 students during Academic Year 2015-16. Five students were placed on strict probation whereas seven were removed from probation.

5. Minor in Agribusiness

Approved the list of courses—adding up to a total of 17 credits—required by students in order to graduate with a Minor in Agribusiness effective Fall 2016-17:

- AGBU 210 (3 cr.); AGBU 213 (3 cr.); AGBU 229 (3 cr.) or AGBU 236 (3 cr.); AGBU 239 (0 cr.); AGBU 240 (0 cr.); AGBU 248 (3 cr.) and AGBU 292 (5 cr.)

6. BLA Curriculum Adjustments

The Landscape Department was engaged in adjusting the curriculum for new students enrolling in the program effective Fall 2016-17. These changes consist of name changes of some courses to better reflect the content, cancelling LDEM 230 (Water and Environment) as a required course and replacing it by LDEM 265 (Landscape Management) as a required course. Changes also consist of offering LDEM 215 (Landscape Geomorphology) instead of GEOL 210 (Geomorphology) to cater for the specific needs of LDEM students, and replacing STAT 210 with any GE quantitative course from the GE list.

7. Awarding BS Degrees

Recommended to the faculty to award BS degrees to 129 students distributed as follows: 38 in **Nutrition and Dietetics**, 17 in **Nutrition and Dietetics–Coordinated Program**, 15 in **Food Science and Management**, 25 in **Landscape Architecture and Diploma of Ingénieur Agricole**, 21 in **Agriculture and Diploma of Ingénieur Agricole**, and 13 in **Agribusiness**.

THE UNDERGRADUATE ADMISSIONS COMMITTEE (UAC)

Prepared by Ms. Tharwat Haddad, Student Records Officer

Membership

Nahla Hwalla, Chairperson

Youssef Abou Jawdeh

Yaser Abunnasr

Isam Bashour (Faculty representative on University Admissions Committee)

Lamis Jomaa

Salma Talhouk

Admission's Representative

Registrar's Representative

Student Representative

Tharwat Haddad, Secretary

Actions

The committee held two meetings during the academic year 2015-2016 and the following actions were taken:

1. Acceptance of Transfer Students

Accepted 154 transfer students from within AUB as well as from other universities:

- A total of 42 transfer students were accepted in Spring 2015-2016, 19 of which registered.
- A total of 101 transfer students were accepted in Fall 2016-2017, 31 of which registered.

2. Enrollment Target and Strategy

Voted to approve the departmental chairs' recommendations on composite scores and enrollment targets for the academic year 2016-2017:

	AGRI	AGBU	LDEM	FSMT	NTDT
Number of new incoming undergraduate students departments can accommodate	40	40	25	35	35
Number of transfers (within and outside AUB)	15	10	5	15	15
Total number of new and transfer students departments can accommodate during Fall and Spring 2016-17	55	50	30	50	50
Minimum cumulative average for transfer students	70	75	80	75	80
Minimum cut-off composite score for Fall 2016-2017	520	525	540	520	540



THE GRADUATE STUDIES COMMITTEE (GSC)

Prepared by Ms. Rabia Koubayssi, Assistant for Student Services

Membership

Nahla Hwalla (Chairperson)

Mohamad Abiad

Isam Bashour (Coordinator for Graduate Studies)

Mustapha Haidar

Lamis Jomaa

Mehran Madani (Replacing Dr. Trovato during her research leave for the first semester 2015-16)

Susan Prattis

Maria Gabriella Trovato

Maya Nabhani Zeidan, Director of Continuous Academic Improvement

Admission's Representative

Registrar's Representative

Student Representative

Rabia Koubayssi (Secretary)

Actions

The committee met six times during the academic year 2015-2016 and the following actions were taken:

1. Program of Study and Thesis Titles

Reviewed and approved the program of study and thesis titles for 17 students distributed as follows: 4 from NUTR, 3 from FTCH, 5 from ECOM, 3 from AGECE, 1 from IRRG, and 1 from PLSC.

2. Acceptance of Graduate Students

Accepted 58 students out of 87 applicants. Of the accepted candidates, 29 students enrolled as follows: 8 Nutrition, 9 Food Technology, 2 Plant Protection, 1 Plant Science, 4 Irrigation, 2 Agricultural Economics, and 3 Rural Community Development.

3. Petitions

Acted on 11 student petitions, the majority of which were: extending residency, changing status from prospective graduate to regular graduate, extending incomplete grade, transferring from one major to the other, withdrawing from a course, transferring of courses, and changing of thesis title.

4. Awarding the MS Degree

Recommended awarding the MS degree to 23 students in their respective majors: 6 in Nutrition, 6 in Food Technology, 4 in Ecosystem Management, 1 in Animal Science, 1 in Irrigation, 3 in Plant Science, 1 in Plant Protection, and 1 in Agricultural Economics.

THE RESEARCH COMMITTEE (RC)

Prepared by Dr. Rami Zurayk, LDEM Chairman and Professor

Membership

Rami Zurayk, Chairperson
Youssef Abou Jawdeh
Lamis Jomaa, Secretary
Mehran Madani

Actions

During the academic year 2015-2016, the Faculty Research Committee (RC) held several meetings during which a number of actions were taken:

- Approval of periodic research and junior faculty leave requests:
Periodic Paid Research Leaves.
- Dr. Lara Nasreddine for Fall 2016-2017
Junior Paid Research Leaves.
- Dr. Susan Prattis for Fall 2016-2017.
- Dr. Mehran Madani for Spring 2016-2017.
- Taking note of the two CNRS proposals by Dr. Mirella Aoun and Dr. Mohammad Abiad that were approved by the RC Chairperson and forwarded to OGC for required processing and submission.
- Reviewing the new FAFS-research proposals and submitting recommendation to the Dean (see table 2).

Table 2: Renewed Grants

PI Full Name	Proposal Title
Hadi Jaafar	Response of Lebanese Marjoram (<i>Origanum Syriacum</i>) to Irrigation and Nitrogen Treatments and Development of its Crop Coefficients Using a Machine-to-Machine Irrigation System
Mohammad Ghassan Abiad	Household Food Waste Generation in Urban Lebanon: Behavioral Patterns, Economic Costs and Policy Options



Table 3: FAFS-Research Proposals for the Academic Year 2016-2017 (11 New Proposals)

PI Full Name	Proposal Title
Omar Obeid	Acute Effect of Phosphorus on Postprandial Partitioning of Energy
Samer Kharroubi	Bayesian Estimations of Health State Utility Values
Mehran Madani	Pedestrian Safety and Struggles Over Older Adult's Accessibility: Case of Beirut Landscape Infrastructure
Lara Nasreddine	Analysis of Nutrient Content and Marketing Strategies of Food Advertisement During Children Television
Ammar Olabi	Effect of Food Acceptability on Appetite Hormones' Response in Normal Weight vs. Obese Male Subjects
Farah Naja	Validity and Reliability of a Food Frequency Questionnaire to Assess Dietary Intake Among Lebanese Adults
Youssef Abou Jawdeh	Development of Serological methods for Detection of Almond witches' Broom Phytoplasma
Giuliano Martiniello	Smallholders' Integration in Global Value Chains and the Implications for Food Security in Lebanon: Evidence-Based Research for Policy Formulation
Lamis Jomaa	Comparison of the Food and Nutrition Security Status of Syrian Refugees and Their Lebanese Host Communities in Lebanon: The Case of Akkar
Shady Hamadeh	Testing the Resilience of Small Ruminant Systems-Case Study of the West Beqaa
Susan Marie Prattis	The Impact of Gut Microbiota and Physiological Responses in Developing Translational Disease Models for Humans and Animals – Funding Collaborative Studies for an Approved Fall 2016 Junior Research Leave and Subsequent AUB Analysis

THE STUDENT AFFAIRS COMMITTEE

Prepared by Dr. Mohamad Abiad, Chairperson

Membership

Mohamad Abiad, Chairperson
 Ali Chalak
 Mohamad Farran
 Mehran Madani
 Susan Marie Prattis
 Student Affairs Representative
 Student Representative
 Tharwat Haddad, Secretary

The committee met twice during the Academic year 2015–2016.

The committee members discussed disciplinary actions and FAFS awards and recommended to the FAFS Dean the following items:

1. Disciplinary Actions

- Recommended issuing a Dean's Warning to an undergraduate student for violating the "Student Code of Conduct" through inadvertent plagiarism in a research report. The paper was a requirement for AGBU 236 during Fall 2015-2016.
- Recommended the expulsion of one undergraduate student from the Faculty of Agricultural and Food Sciences effective May 2016 for forging two medical reports.
- Recommended issuing a Dean's Warning to two undergraduate students who vandalised FAFS property, and forced their way into one of the AREC villas by

breaking in through a window on the second floor as reported by AREC Director, Dr. Mustapha Haidar.

2. FAFS Awards

Recommended the following students to receive FAFS awards:

- **Joana Haidar Award**
Recommended granting **Mr. Vicken Aknadibossian** the Joana Haidar Award.
- **Edgcombe Award**
Recommended granting **Ms. Lara El Gemayel** the Edgcombe Award.
- **Kashadurian Award**
Recommended granting **Ms. Karin Manja** the Kashadurian Award.
- **Abdul Hadi Debs Award**
Recommended granting **Ms. Patil Tawidian** the Abdul Hadi Debs Award.
- **Dean Thomas Thuserland Prize for Graduate Excellence**
Recommended granting **Ms. Patil Tawidian** the Dean Thomas Thuserland Prize for Graduate Excellence.
- **The Dean Nuhad Dagher FAFS Graduate Student Award:**
Recommended granting **Mr. Roger Mazloun**, from the Department of Animal and Veterinary Sciences, the Dean Nuhad Dagher FAFS Graduate Student Award.
- **Penrose Award**
Voted to endorse the three nominees for the Penrose Award and to present their files during the Faculty meeting so that faculty members evaluate and vote for one recipient.

Faculty of Agricultural and Food Sciences



III . THE FACULTY



A. ACADEMIC MATTERS

FACULTY RECRUITMENT AND COUNT

The total Faculty Full- Time Equivalent (FTE) for the academic year 2015-2016 (based on Fall data) was 43.47 of which twenty nine were full-time faculty of professorial rank (11 professors, 2 visiting professors, 5 associate professors, 10 assistant professors and 1 visiting assistant professor).

The distribution of FTE's by department is shown in Table 4.

Table 4: FTE by Department

		AGRI	LDEM	NFSC	RCODE	Total
Full-time	Professorial Rank	13	7	8	1	29
	Lecturer and Instructor	1	1	4		6
Part-Time		2.52	4.44	1.51		8.47
Total		16.52	12.44	13.51	1	43.47

During the academic year 2015-2016, FAFS advertised for five professorial lines: Agroecology, Plant Breeding and Biotechnology, Animal Biotechnology, Landscape Architecture, and Landscape Architecture History. The process was completed for the Landscape Architecture Position. As for the other positions, the search and the selection process will be completed during the academic year 2016-2017.

FACULTY AFFAIRS

Academic Appointments

The following Faculty served as Chairs of FAFS Departments:

- Dr. Shady Hamadeh; Agriculture Department
- Dr. Lara Nasreddine; Nutrition and Food Sciences Department
- Dr. Ramy Zurayk; Landscape Design and Ecosystem Management Department

Appointment of Chairs: The President approved the appointment of Dr. Imad Toufeili as NFSC Chairperson for a period of three years effective September 1, 2016.

Workshops and Seminars: Faculty members from different departments were invited speakers at local (2), regional (6), and international (20) conferences. Highlights of other events are as follows:

- Dean Hwalla was a featured speaker on the impact of food consumption patterns on the sustainability of human health and the environment at the Arab Forum on Environment and Development (AFED) annual conference under the title "Sustainable Consumption for Better Resource Management."
- The AGRI Department was selected as one of the seven worldwide academic institutions to co-host a two-day FAO webinar broadcasted from Rome on "Agricultural Biotechnology and its Use in Developing Sustainable Food Systems and Improving Nutrition." Organized by Dr. Abou Jawdeh, the webinar attracted university wide student and faculty participation.



- The LDEM Department and the Lebanese Landscape Association (LELA) organized the first regional conference (IFLA Middle East conference event) devoted to the landscape architecture discipline held at AUB under the title "Unfolding Middle Eastern Landscapes: Changing Forms, Evolving Tools, Transforming Meanings."
- The Food Security Program at FAFS and the International Food Policy Research Institute (IFPRI) have jointly launched the Lebanon Spatial data mapping project in the area of food security beginning academic year 2015-2016. The development of Lebanon Spatial will take place over the current academic year.
- **Gala dinner:** FAFS hosted a gala dinner at Phoenicia Hotel celebrating AUB's 150th anniversary and the great success of the first IFLA Beirut 2016 conference "Unfolding Middle Eastern Landscape." Attendees included representatives from the Ministry of Agriculture (MOA), the Lebanese University Dean of Agriculture, IFLA representatives and keynote speakers, the Lebanese Landscape Association (LELA) representatives, IFLA conference sponsors, AUB administration, FAFS Alumni Chapter and FAFS community. Attendees also included members of the FAFS External Advisory Board.

OUTREACH & SOCIETAL IMPACT

FAFS celebrated World Food Day with an event entitled "Tackling Food Insecurity in Lebanon and Beyond: The World Food Programme's Response." The event was cohosted by FAFS and WFP.

The NFSC Department organized a one-day workshop on "Nutrigenomics and Personalized Nutrition: Implications for the Dietetic Practice" presented by Dr. Ahmed El-Sohemy. It also hosted a two-day workshop on "Basic and Advanced Carbohydrate Counting," presented by Ms. Claudia Matta and organized a three-day Dietetics Workshop in preparation for the US Registered Dietitian Exam, offered by Dr. Rayane Abu Sabha of Sage Colleges, Troy, NY. The Department, in collaboration with the Institute of Global Health (part of University College London), organized a ten-day course in Nutrition in Emergencies (NIE) and hosted a workshop entitled "Develop Packaging into Profit, not an Extra Cost!" in collaboration with Euro-Lebanese Centre for Industrial Modernization (ELCIM) and the Lebanon Industry Value Chain Development Project, DAI, funded by USAID. It also hosted a Food Safety training, Level 2 Award in Food Safety (Basic Food Hygiene) presented by BOECKER Team, as well as Dr. Mohamad Abiad and Ms. Dima El-Halabi. NFSC also received a donation from Roadster Diner in support of the Food Safety Awareness Campaign.

The AGRI Department hosted Dr. Bruce McCarl, a Nobel Peace Prize laureate, on December 16, 2015 for a presentation and talk on Agriculture and Climate Change. The Department organized the AANA Annual Prize Ceremony for the selection of best Agribusiness student final year project, involving distinguished judges from the private sector.

The Food Security Program developed a project proposal in collaboration with the Food Security Center at the Universität Hohenheim, for the delivery of food security programming to support Lebanese and Syrian refugee children in a school-based setting in rural Lebanon and is awaiting final award of funding from the German Academic Exchange Service (DAAD).



FAFS welcomed Mr. Khaled Chehab, President of the Order of Engineers and Architects in Lebanon, and the President of the Agricultural Branch, Dr. Micheline Wehbe. Their visit to the Faculty included an information talk to the FAFS faculty members and students about the recent updates of the engineering profession and latest achievements of the syndicate.

RESEARCH GRANTS AND SERVICE CONTRACTS

Research Funding: During the fiscal year 2015-2016, FAFS Faculty members were successful in attracting new research funding from internal, local and international agencies for a total of \$1.1M: \$357K from the Supreme Council of Health in Qatar and \$72K from Nestec to Dr. Naja; \$148K from Instituto Affari, \$70K from UNDP and \$22.33K from UNHCR to Dr. Chaaban; \$88K from EU to Dr. Abunnasr, \$47.28K from IGN, \$15.531K from Zayed University and \$5K from CNRS to Dr. Obeid; \$53.16K from ELANCO to Dr. Farran, \$42K from FAO to Dr. Talhouk, \$40K from FAO to Dr. Trovato, \$10K from ICARDA and \$6K from CNRS to Dr. Jaafar; \$15.6K from NEF to Dr. Hamadeh, and \$111K in URB Funding to 12 faculty members.

Published papers: This year, a total of 41 papers were published in international refereed journals with IF>1: 29 in NFSC (6 FM), 15 in AGRI (6 FM), and 3 in LDEM (2 FM). The average of publications per faculty member was 1.86, which is similar to that of last year (1.9).

ACCREDITATION, PROGRAM REVIEWS AND NEW PROGRAMS

Nutrition and Dietetics Coordinated Program (NDCP): The NFSC Department submitted its self-study of the NDCP to ACEND, in preparation for the upcoming site visit in November 2016 for the reaccreditation of the program. The NFSC Department also successfully completed discussions with Sage Colleges, NY, USA for setting up an affiliation agreement that secures placement of future NDCP students in the Colleges' Dietetic Practicum, in support of fulfilling the ACEND requirement of 900 hours of practicum in the US, for students pursuing the IDE (International Dietetic Education) track. Six graduates of the ACEND-accredited NDCP joined their fellow alumnus, Linda Said, in successfully passing the RD exam and receiving the US RD credential, thus becoming the first group of graduates of a nutrition and dietetics program in the region to receive this credential.

Agriculture Program: The AGRI Department engaged in finalizing the application for registering the program changes with NYSED.

BLA Curriculum modifications: Minor curriculum updates were approved by FAFS's Academic Curriculum Committee and will be effective Fall 2016-2017.

New Academic Programs or Departments

MS in Food Security: The NFSC Department spearheaded the development of a new multidisciplinary graduate program of capacity building in FS that would contribute to tackling the global concern of Food Insecurity and providing resources for addressing it. The program completed NYSED and MOEHE approvals this year, was launched and accepted students for Fall 2016-2017.

MS in Food Safety: The NFSC Department has secured University approvals and is now engaged in finalizing the process of securing NYSED and MOEHE registration.

MS in Public Health Nutrition: The NFSC Department spearheaded the development of the new multidisciplinary graduate program jointly with the FHS. After securing University approvals, an external review was completed as part of the NYSED approval process, and the NFSC Department is finalizing the application for program registration with the Lebanese Ministry of Education and Higher Education.

BS in Food Science and Technology: The NFSC Department submitted a revised proposal of the new program to ADC, in May 2016, after addressing the committee's comments.

NEW AND PROMOTED FACULTY

New Faculty: Effective Fall 2015-2016, Dr. Giuliano Martiniello joined the RCODE program as Assistant professor of Rural Community and Development and Dr. Ioannis Savvaidis as a Visiting Professor of Food Microbiology. **Drs. S. Kharroubi (NFSC) and M. Aoun (AGRI)** joined FAFS in Spring 2016 as Associate professor of Biostatistics and as Visiting Assistant Professor of Horticulture, respectively. **Ms. B. Dreksler (LDEM) and Dr. M. Keulertz (Food Security)** joined FAFS on August 15, 2016. **Dr. Issmat Kassem's and Mr. Elie Fares's** appointments at the NFSC Department as Assistant Professor of Food Microbiology and as an Assistant Professor of Clinical and Sports Nutrition at the NFSC Department were approved by the Provost effective Spring semester 2016-2017.

Promoted Faculty: Dr. Farah Naja was promoted to the rank of Associate Professor in the Department of Nutrition and Food Sciences as of September 1, 2015.

RECOGNITIONS

Dr. Obeid received the CA and CC 2014 Rebeiz Award for his article "Timing of caffeine ingestion alters postprandial metabolism in rats" published in the Journal of Nutrition. Dr. Abou Jawdeh received the National Energy Globe Award for his project "Production of Biodiesel from Algae in Selected Mediterranean Countries."

Recognition of outstanding achievement: The AANA Prizes in Agribusiness were held for the third consecutive year. The AANA Prizes recognize outstanding achievement by agribusiness students in the areas of benefit to community and innovation.

EXTERNAL ADVISORY BOARD

Four new members joined FAFS's External Advisory Board (EAB): Dr. Lamyia Tannous Khuri, (Professor of Nutrition), Mr. Michel Bayyoud (Founder and CEO, Boecker Group), Mr. Khaled Miqdadi (Director of Agrimatco) and Mr. Nabil De Freij (Minister).

FUNDRAISING ACTIVITIES AND INITIATIVES

FAFS secured a \$300K pledge from Mr. Michel Bayyoud, FAFS External Advisory Board, towards the renovation and refurbishment of the AGRI 102 Lecture Hall, FAFS's iconic auditorium. In addition, FAFS secured a \$30K donation from the President's Club to refurbish the AREC Cafeteria. The NFSC Department received a \$50K donation from Roadster's Diner to establish the Annual Food Safety Lecture Series and in support of the Food Safety Awareness Campaign. Also at AREC, the agreements for land rent with UNIFERT (\$17K/year) and ICARDA (\$92K/year) were renewed, with the former allocating an additional \$12K in student scholarships. FAFS also initiated talks with Tanmia for the launching of a long-term collaborative agreement at AREC. The agreement will expose faculty and students to the latest commercial animal and agricultural practices and promises to provide in addition to scholarships, a steady financial support to the faculty to be used in investing in its teaching and research infrastructure.



FACULTY MEETINGS

Prepared by Dr. Mehran Madani, Assistant Professor

During the period September 1, 2015-August 31, 2016, eight regular faculty meetings were held at FAFS, and the following actions were taken:

1. Voting of Degrees

Voted unanimously to award B.S. degrees in Agriculture and Diploma of Ingénieur Agricole, Agribusiness, Nutrition and Dietetics, Nutrition and Dietetics-Coordinated Program, Food Science and Management, as well as Landscape Design and Eco-Management; and Diploma of Ingénieur Agricole, Veterinary Sciences and Master of Sciences for students as recommended by the representatives from each department, effective September 2015, January 2016, and May 2016 consecutively.

2. Awards:

Voted on the recommendation of the Student Affairs Committee and granted FAFS Awards as follows:

- **Edgcombe Memorial Prize:** Lara El Gemayel
- **Kashaduran Award:** Karin Manja
- **The Joana Haidar Award:** Vicken Aknadibossian
- **Dean Thomas Sutherland Prizes:** Patil Tawidian
- **Penrose Award:** Karin Manja
- **Abdul Hadi Debs Endowment:** Patil Tawidian
- **Dean Nuhad Dagher FAFS Graduate Student Award:** Roger Mazloun

3. Presentation on “A Scientometric Approach of FAFS Research Performance” by Dr. Lokman Meho, University Librarian

Dr. Lokman Meho, University Librarian, presented Bibliometric analysis of FAFS research. The aim was to show where our Faculty stands in terms of research productivity compared to other institutions in the region and to figure out the reason why AUB is not ranked in FAFS-related fields.

4. Proposals for New Programs:

Approved the proposals for new graduate/undergraduate programs in:

- A new graduate program: Master's in Public Health Nutrition; a joint program of FAFS and FHS, presented by Dr. Nasreddine.
- A new graduate program: Master's in Food Safety, presented by Dr. Nasreddine.
- A new B.Sc. in Food Science and Technology, presented by Dr. Nasreddine.
- The Bachelor degrees of Nutrition and Dietetics (NTDT) and Nutrition and Dietetics- Coordinated Programs (NDCP) jointly with Faculty of Medicine, presented by Dr. Nasreddine.

5. Faculty Members Information System (FMIS):

Dania El-Ashi, the IT manager, offered the new features of a new IT application (FMIS), which helps FAFS faculty members post their recent research interests, update their CVs, and communicate with other departments and universities by services provided through the Faculty Members Information System (FMIS).

B. STUDENT STATISTICS

STUDENT ENROLLMENT (2015-2016)

The total undergraduate student enrollment in the Faculty for the year 2015-2016 was 521 distributed among the departments as follows: 142 in Nutrition and Dietetics, 49 in Nutrition and Dietetics-Coordinated Program, 77 in Food Science and Management, 106 in Landscape Architecture, 88 in Agriculture, and 59 in Agribusiness. Except for the Nutrition and Agriculture Programs, the 3 other undergraduate programs (AGBU, FSMT and BLA) at FAFS witnessed an average 10% drop in enrollment, which can be mainly attributed to a 10% drop in the retention rate in the AGVBU, FSMT and BLA programs.

The total graduate student enrollment in 2015-2016 was 77 distributed among the departments as follows: 41 in NFSC, 20 in AGRI, 9 in LDEM, and 7 in the interdisciplinary Rural Community Development (RCODE) program. At the graduate level, enrollment dropped from 89 in 2014-2015 to 77 in 2015-2016 with an average 30% drop in the nutrition graduate program. This constitutes a continued reflection of the higher cut-off scores adopted by the NFSC Department in 2012-2013 for accepting new graduate students in response to the limited number of faculty members available for supervising the graduates and in an effort to improve student advising and thesis supervision.





Table 5: Total Student Enrollment in Various FAFS programs During the Academic Year 2015-2016

Undergraduate Enrollment	AY 2015-2016
Nutrition and Dietetics (NTDT)	142
Nutrition and Dietetics–Coordinated Program (NTDT-CP)*	49
Food Science and Management (FSMT)	77
Agriculture (AGRI)*	88
Agribusiness (AGBU)	59
Landscape Architecture (LDAR)*	106
Total Undergraduate	521
Graduate Enrollment	
Nutrition (NUTR)	22
Food Technology (FTCH)	19
Agricultural Economics (AGEC)	6
Irrigation (IRRG)	4
Plant Protection (PLPT)	2
Plant Science (PLSC)	4
Animal Science (ANML)	3
Poultry Science (POSC)	1
Rural & Community Development (RCOD)	7
Ecosystem Management (ECOM)	9
Total Graduate	77
Total (UG &GR)	598

* Agriculture, Landscape Design & Eco-Management and Nutrition & Dietetics – Coordinated Programs are four-year programs.

HISTORICAL PERSPECTIVE (2015-2016)

This considerable change in the undergraduate enrollment as compared to that of 2014-15 (547) was mainly due to a lower number of newly enrolled students in AY 2015-2016 (98) as compared to AY 2014-2015 (117) mainly in the FSMT and BLA programs. The peak enrollment year over the 5 years was 2014-2015. The undergraduate enrollment in the past 5 years is shown in Table 6.

Table 6: Number of Enrolled FAFS Undergraduate Students for the Last Five Academic Years

Program	11-12	12-13	13-14	14-15	15-16
NTDT	118	143	176	144	142
NTDT-CP	18	14	15	44	44
FSMT	80	73	74	85	77
AGRI (4 years)	112	118	100	88	88
AGBU	85	82	71	64	59
LDEM (4 years)	99	102	95	115	106
VTSC	11	3	0	0	0
NWAG	1	2	2	7	5
Total Undergraduate	524	537	533	547	521

Graduate enrollment decreased from 127 students in 2011-12 to 77 in 2015-16. This was mostly due to the low enrollment in the Nutrition (~60% drop), Food Technology (~49%) and Ecosystem Management (~25% drop) graduate programs. This largest drop in the nutrition and food technology graduate programs was due to a ceiling adopted by the NFSC Department for accepting new graduate students in order to improve thesis supervision and student advising. The graduate enrollment in the past 5 years is shown in Table 7.

Table 7: Number of Enrolled FAFS Graduate Students for the Last Five Academic Years

Program	11-12	12-13	13-14	14-15	15-16
NUTR	56	48	36	30	21
FTCH	37	30	18	15	19
AGEC	4	3	4	4	6
IRRG	4	3	2	2	4
PLPT	4	4	4	7	2
PLSC	2	6	6	3	4
SOIL	2	-	-	-	-
ECOM	12	8	12	12	9
ANML	2	2	3	4	3
POSC	3	4	4	3	1
RCOD	-	-	-	5	7
FSEC	-	-	-	4	-
NWAG	1	3	3	-	1
Total Undergraduate	127	111	92	89	77



STUDENT ADMISSIONS (2015-2016)

Undergraduate New Applicants

During the AY 2015-2016, a total of 1930 new applications were received at FAFS. 45% of the applications were accepted and 11% of the accepted enrolled. In Fall 2015-2016, the yield of admittance was 10% (84 enrolled out of 827 accepted students) whereas in Spring 2015-2016, the yield of admittance was 34% (14 enrolled out of 41 accepted students). That was a significant decrease in the number of enrolled undergraduate students (98) compared to the previous year 2014-2015 (117 students). This decrease was most noticeable within NTD, FSMT, and LDAR programs. Table 8 shows the numbers and percentages of new undergraduate students who applied to various FAFS programs; those who were admitted and those who enrolled in Fall and Spring 2015-2016.

Table 8: Number of New FAFS Undergraduate Applicants, Admitted and Enrolled During the Academic Year 2014-2015

First Semester 2015-2016				
Program	Applications	Admissions	Enrollment	% Yield
NTDT	498	193	23	12%
FSMT	392	183	19	10%
AGRI	350	182	10	5%
AGBU	361	178	15	8%
LDAR	217	91	17	19%
Total	1818	827	84	10%
Second Semester 2015-2016				
Program	Applications	Admissions	Enrollment	% Yield
NTDT	29	10	5	50%
FSMT	15	2	2	100%
AGRI	31	17	4	24%
AGBU	25	10	3	30%
LDAR	12	2	0	0%
LDAR	12	2	0	0%
Total	112	41	14	34%

Undergraduate Transfer Applicants

During the AY 2015-2016, a total of 224 transfer applications were received at FAFS. 135 (60%) applications were accepted and 48 (36%) of those accepted enrolled. Table 9 shows the numbers and percentages of undergraduate transfer students who applied to the different FAFS majors; those who were admitted, and those who enrolled in Fall and Spring 2015-2016.

Table 9: Number of Undergraduate (Second Degree and Transfer) Applicants, Admitted and Enrolled During the Academic Year 2015-2016

First Semester 2015-2016				
Program	Applications	Admissions	Enrollment	% Yield
NTDT	56	30	10	33%
FSMT	26	23	4	17%
AGRI	21	19	7	37%
AGBU	28	17	4	24%
LDAR	25	4	4	100%
Total	156	93	29	31%
Second Semester 2015-2016				
Program	Applications	Admissions	Enrollment	% Yield
NTDT	18	14	8	57%
FSMT	16	11	3	27%
AGRI	12	12	7	58%
AGBU	15	5	1	20%
LDAR	7	0	0	0%
Total	68	42	19	45%

Graduate Applicants

During the AY 2015-2016, a total of 87 graduate applications were received at FAFS. 58 (67%) were accepted and 29 (50%) of those accepted enrolled. The yield was higher than that of 2014-2015 (41%). Table 10 shows the numbers and percentages of graduate students who applied to FAFS; those who were admitted, and those who enrolled.

Table 10: Number of FAFS Graduate Applications and Admissions

Fall, Spring 2015-2016					
Program	Applications	Admissions	% Admitted out of applicants	Enrollment	% Yield
NUTR	34	17	50%	8	47%
FTCH	22	14	64%	9	64%
AGEC	5	4	80%	2	50%
IRRG	6	5	83%	4	80%
PLPT	2	2	100%	2	100%
PLSC	4	4	100%	1	25%
ECOM	9	8	89%	0	0%
RCOD	5	4	80%	3	75%
Total	87	58	67%	29	50%



GRADUATION (2015-2016)

129 FAFS undergraduate students graduated in 2015-2016 and were distributed over the different majors as follows: Nutrition and Dietetics (38), Nutrition and Dietetics–Coordinated Program (17), Food Science and Management (15), Landscape Architecture (25), Agriculture (21) and Agribusiness (13). FAFS also graduated 23 graduate students distributed over the different programs as follows: Nutrition (6), Food Technology (6), Ecosystem Management (4), Agricultural Economics (1), Irrigation (1), Plant Protection (1), Plant Science (3), and Animal Science (1). The average number of M.S. graduates over the last five years was 30 students. Tables 11 and 12 show the distribution of graduated students in the different disciplines at FAFS during the past five years.

Table 11: Number of Graduated FAFS Undergraduate Students for the Last Five Academic Years

Major	11-12	12-13	13-14	14-15	15-16
NTDT	24	24	27	28	38
NTDT-CP	18	14	15	14	17
FSMT	30	18	23	17	15
AGRI	29	10	13	19	21
AGBU	20	17	16	18	13
LDAR	23	24	21	21	25
VTSC	1	3	-	0	0
Total Undergraduate students	145	110	115	117	129

Table 12: Number of Graduated FAFS Graduate Students for the Last Five Academic Years

Major	11-12	12-13	13-14	14-15	15-16
NUTR	15	12	13	15	6
FTCH	13	11	9	5	6
AGEC	1	0	1	1	1
ANML	0	1	1	1	1
IRRG	0	1	1	0	1
PLPT	1	3	1	1	1
PLSC	0	1	2	0	3
POSC	0	1	1	2	0
SOIL	2	0	0	0	0
ECOM	3	2	4	2	4
Total Undergraduate students	35	32	33	27	23



IV . CENTERS AND UNITS



AGRICULTURAL RESEARCH AND EDUCATION CENTER (AREC)

Prepared by Mr. Nicolas El Haddad, AREC Farm & Facilities Manager

SUPPORT STAFF

AREC Administration	
Mustapha Haidar	Director
Nicolas El-Haddad	Farm & Facilities Manager
Hussein Hajj Hasan	Sales Attendant/Store Keeper
Bilal Yazbeck	Superintendent
Mirna Yazbeck	Secretary

AREC Physical Plant	
Hisam Ghosn	Gateman/Watchman
Naji Haidar	Assistant Mechanic
Ali G. Hajj Hasan	Head of Watchman
Khayrieh Hajj Hasan	Maid
Mohamad Hajj Hasan	Gateman/Watchman
Walid Hamiyeh	Field Foreman
Ali Kayyal	Food Service Worker
Ali Masri	Gateman/Watchman
Hasan Mouna	Day &/or Night Attendant (Elect. & Boiler)
Kuzhayyah Mussawi	Gateman/Watchman
Haidar Nasser	Janitor
Abdel-Karim Rumeh	Farm Attendant
Khalil Shukr	Food Service Worker
Ali Sindian	Head Mechanic
Bassam Zein	Mason

AREC Production	
Ibrahim El Ali	Animal Attendant
Ahmad Kassem Hajj Hasan	Livestock Production Head
Ahmad Khalil Hajj Hasan	Creamery Operator
Ali T.Hajj Hasan	Field Worker
Mohamad Harb	Animal Attendant
Hatem Kayyal	Agronomy Foreman
Abbas Mussawi	Machine Operator
Shady Safar	Livestock & Poultry Production Supervisor
Nayef Takesh	Machine Operator
Ali Yazbeck	Assistant Agronomy Foreman
Hussein Yazbeck	Animal Attendant
Mohamad Zureik	Poultry Production Head

AREC Library	
Samar Sleiman	Library Assistant II

AREC Clinic	
Mariam Sayyed Ahmad	Staff Nurse
Mona Yazbek	Clinical Assistant

HIGHLIGHTS

- President Fadlo Khuri visited AREC on August 26, 2016 at the head of an official AUB deputation that included Interim Provost Dr. Harajli, COO Mr. Sedehi, Dean of FAFS Dr. Hwalla, Vice President for Advancement Dr. Baalabaki, and Dr. Chahine from the Olayan School of Business and President's strategic team.
- President Fadlo Khuri and members of the President's club inaugurated AREC's newly refurbished student lounge, toured the facility, and shared a meal with students, faculty, and staff on November 1, 2015.
- AUB Board of Trustees member Dr. William Ronnie Coffman and the Director General of ICARDA Dr. Mahmoud El-Solh visited AREC on May 23, 2016.
- Eight Thousand and Six Hundred accessions, withdrawn from the Svalbard Global Seed Vault in Norway, known as the "Doomsday Vault", are stored for ICARDA at AREC's seed bank. A total of 30,000 accessions are now housed at AREC.
- Mr. Wadih Nasrallah, General Manager at Tanmia, visited AREC to discuss future collaboration between AREC and Tanmia for the establishment of new high technology poultry houses at AREC.
- AREC students held their project-field day at AREC on Tuesday, July 19, 2016. The chairman of the AGRI Department, 8 professors, and many other visitors attended this day.
- Updating the new collaboration agreement between FAFS and the International Center for Agricultural Research in Dry Areas (ICARDA). In this agreement, FAFS agreed to collaborate with ICARDA in the area of agricultural service and to carry out the following tasks over the duration of the project:
 - Providing 230 dunums of land, preparing the land (plowing, disking, and leveling), and providing minimum tillage as well as supplementary irrigation. Also, AUB allows ICARDA's Genetic Resources Section to establish a Gene Bank at the Agricultural Research and Education Center (AREC) along with 3 hectares for seed multiplication.
 - Updating the new collaboration agreement between FAFS and UNIFERT company. Unifert is a trade of fertilizers, pesticides, irrigation pipes & seeds. Also, it provides



- Renewing and updating the agreement with KMK Group to provide AUB professors, students, and community with food services under highest standards in food production, services, sanitation and hygiene.
- Renewing the contract agreement with Al Rabih Company for casual workers at AREC. The contractor provides casual workforce for the carrying out of the following activities required and assigned by AREC: Planting, farming, sowing, plowing, weeding, irrigation, fertilization, harvesting, housekeeping, waste collection, animals and birds care, driving agricultural tractors, food services, mechanical and electrical services, carpentry, welding and general maintenance, etc.
- Completing a study that aims at converting AREC into a complete green energy system using alternative energy.
- AUB community gathered at the Annual AREC DAY on its 60th Anniversary on April 24, 2016, with the participation of AUB community, faculty members, and students.
- UNIFERT field day was held with the participation of many agricultural engineers and farmers from different countries on August 4, 2016.
- AREC retirees and current staff were invited to a Ramadan Iftar on June 24, 2016.
- More than 25 international ICARDA trainees visited AREC and ICARDA seed processing facilities and experimental plots.
- The Department of Nutrition and Food Sciences at the American University of Beirut, in collaboration with the Institute of Global Health London, conducted the Nutrition in Emergencies training course from the 16th till the 27th of May 2016.
- Dr. Rabih Shibli, director of CCECS, along with international trainers visited AREC to inspect the different facilities and explore the possibilities of benefiting from making workshops for community developments.

landscaping & garden maintenance services. In this agreement, FAFS permits UNIFERT to run a demonstration trial for the selection of new varieties of hybrid vegetables at the premises of the Agricultural Research and Education Center (AREC) in Beqaa.



- The International Labour Organization Regional Office for Arab States brought together organizations and official bodies involved in combatting child labour in Lebanon for a three-day workshop at AREC between August 18 and 20, 2015.
- Two workshops, sponsored by Catalytic Action and organized by CCECS-AUB, were held at AREC for almost one month (August) under a project entitled "Ibtasem" or "Smile." The project's aim is to design and build a playground for Syrian refugees children in Bar Elias, Beq'aa Valley.
- Determining the estimated cost for the renovation of the creamery in order to relaunch production activities.
- Planting more than 50 trees of newly introduced varieties of stone fruits and apples at the botanical garden.
- Two experts in vermicomposting from the Farmer to Farmer USAID program visited AREC on January 28 to check the facilities for any future potential project.
- Adopting AREC as a checkpoint for AUB's rally paper that took place on April 9 and 10.
- Leasing a part of plots A and E (255 dunums) to Al Rabih Company for cropping and agricultural purposes.
- AREC staff were invited by Dr. Haidar for a lunch at the West Beqaa Country Club on December 17, 2016.
- Producing 3,400 gms of dried saffron.
- Completing the remodeling of the green poultry house through the generous support of ESCWA in order to be operated by renewable energy.

- Maintaining the farm such as orchards, gardens, olives, ciders, pine, oregano and saffron.
- Supplying all the hot water solar panels with anti-freeze to avoid frost damage.

PERSONNEL

- Mr. Ali Hajj Hassan was appointed as Head of security at AREC.
- Mr. Walid Hamieh was appointed as Field Foreman.
- Mr. Bilal Yazbek was upgraded to Superintendent.
- Mr. Ali Hajj Hasan was appointed as Gardener.
- Distributing Pins for the employees who served 10, 15, 20, and 25 years at AREC by Dr. Haidar (AREC Director).

TEACHING

- Twenty four AGRI III students completed their Spring and Summer sessions at AREC.
- Acquainting the students with the different practical farm operations on daily basis.
- Preparing the necessary tools for different labs.
- Demonstrating the different systems of engines and the use of farm machinery.
- Providing assistance to the students in the implementation of their projects.
- Providing accommodation and teaching facilities to AUB visiting-professors and students.
- Helping the students in their undergraduate and graduate projects.

- Helping students in opening their own business in vegetable production.
- Purchasing 3 cows for teaching purpose as recommended by AGRI Department in order to acquaint the students with different diseases/cures and management.

SERVICES

AREC continued to provide assistance to faculty members and graduate students in the following research projects:

- Comparison of no-till potato production to conventional practices using different treatments of water and barley straw.
- Management of *Orobanche ramosa* in potato.
- Evaluation of the Anti-Mycoplasma Gallisepticum efficacy of Pulmotil and Denagard in Broiler Breeder chickens.
- Production of low- tannin and tannin- free fava bean.
- Determination of the water requirements of sweet corn grown in the Beqaa Valley.
- AREC provided assistance to ICARDA in various field cultural practices and in the maintenance of the allocated facilities.
- AREC provided assistance to Unifert in their seed trials.
- AREC provided agricultural services to the farmers in the neighboring villages such as land preparation, chemical application and harvesting.
- Installing a cooling system at the conventional poultry house 1.
- Long-term taking care of 12 lambs for the experiment conducted by Dr. Philip Taddei (Department of Radiation Oncology, Medical Center).
- Performing various operations at the conservation agriculture plots such as land preparation, chemical application, planting, and controlling pests.
- Providing lodging for 4 weeks to 9 trainers From CCECS-AUB and 8 Italians from the catalytic action during the 2 workshops that were held between August 10 and September 10, 2015.
- Securing lodging to trainers from Kayani Foundation from September 5 till September 19, 2015.
- Providing teaching and catering services to the participants in the environmental day that was organized and sponsored by Makhzoumi Foundation on September 19, 2015.
- Providing services to the farmers in the surrounding villages such as land preparation, planting, and chemical application.
- Supplying AUB community with super sweet corn.
- Establishing Middle Eastern mini gardens in front of the main building.

STRATEGIC CHALLENGES

- Making AREC financially sustainable.
- Water scarcity and drought.
- Looking for more alternative energy production systems



in order to reduce AREC's power consumption.

- Operating the newly rehabilitated and remodeled conventional poultry house using alternative energy.
- Security situation in the Beqaa.

FUTURE GOALS AND PLANS:

- Widening the partnership base with NGOs and the private sector.
- Transforming AREC into a financially stable center of excellence.
- Offering AREC staff a four-year Early Departure Incentive Plan.
- Converting AREC into a complete green energy center so as to become a showcase of various renewable energy applications.
- Reopening the creamery facility in order to resume the production due to the high demand by AUB community.
- Resuming egg production due to the high demand by AUB community.
- Increasing sweet corn production due to the high demand by AUB community.
- Expanding Zaatar production due to its high quality.
- Becoming a platform for rural development.
- Enhancing Ecotourism.



ENVIRONMENT AND SUSTAINABLE DEVELOPMENT UNIT (ESDU)

Prepared by Dr. Shadi Hamadeh, Chairperson & Professor Ms. Mabelle Chedid, Research Assistant

PERSONNEL

Shadi Hamadeh, ESDU Director
 Dominique Anid, Health & Nutrition Officer
 Mabelle Chedid, Executive Officer
 Diana Marroush Abi-Said, Administrative-Financial Officer
 Ziad Moussa, Capacity Development and Outreach Officer
 Marwa Soubra, Health & Nutrition Officer

ESDU ASSOCIATES

Mounir Abi-Said, Training and Organizational Development Specialist
 Salwa Tohmé Tawk, Knowledge Management Officer/ Training and Organizational Development Specialist

HIGHLIGHTS

During the AY 2015–16, ESDU implemented several projects covering a budget of \$189,480 from the private sector and different international donor agencies.

REGIONAL NETWORKING (KARIANET)

“KariaNet” Knowledge Access for Rural Inter-connected Areas Network is a regional network funded by IDRC and IFAD for the management and sharing of knowledge, information and experience in agriculture and rural development in the Middle East and North Africa (MENA) region. ESDU has been hosting the network since 2015 and has designed a new portal that was launched in March 2016, accessible to all users. ESDU is aligning KariaNet activities with Local Food Systems while contextualizing success cases, and partnering with regional and international networks and centers in the region.

DEVELOPMENT

“GHATA: Bringing Education to Informal Tented Settlements”

This project is implemented in partnership with Kayany Foundation and the Center for Civic Engagement and Community Service (CCECS) and funded by Reach Out to Asia–Qatar Foundation. It aims to scale up AUB-CCECS GHATA intervention to assemble two school campuses in an effort to provide Community Based Education (CBE) for refugee children in addition to child protection services and nutritional assistance. ESDU team consulted on the establishment of two school kitchenettes within the



campuses and led the capacity building of the women cooks in each school on food safety, healthy nutrition, and menu development. Throughout the year, students received a variety of healthy snacks, hence improving their dietary diversity and access to nutritious food.

“Building the Food Security and Economic Resilience of Syrian Refugees and Vulnerable Members of their Host Communities in Beirut/Lebanon”

aims at building the food security and economic resilience of Syrian refugees and vulnerable members of their host communities, enabling them to survive and prosper in the face of decreasing international assistance. The project is in collaboration with the Near East Foundation (NEF) and YMCA, and ESDU is in charge of the implementation of the urban agriculture component of the proposed project. Urban agricultural kits were designed and provided by ESDU to 40 families so far (out of 150) in Bourj Hammoud, Dawra and Nabaa areas. Capacity building sessions were delivered to the project beneficiaries, enabling them to produce healthy food on their balconies, windows and roofs.



NEW ACADEMIC PROGRAM: RURAL COMMUNITY DEVELOPMENT MS PROGRAM

Prepared by Shadi Hamadeh, RCODE, Chairman Diana M. Abi-Said, RCODE, Research Assistant

HIGHLIGHTS

1. The RCODE MS program initiated the recruitment process for one RCODE faculty position and voted to approve three short-listed candidates.
2. RCODE approved the appointment of Dr. Giuliano Martiniello for a full-time faculty position.
3. The Program proposed a new course, MEST 317S: Political Ecology and Social Change: focus on the Arab region, as elective.
4. Approved to transfer the elective courses FSEC 300, 305, 310/or 315 as graduate elective courses from the diploma of food security to the RCODE MS program.
5. The program offered 4 core graduate courses during the report period in addition to the enrollment of 7 graduate students (6 thesis and one non-thesis).

PERSONNEL

Full-time Faculty/RCODE Committee Members

Shady Hamadeh	Chairman/Professor
Giuliano Martiniello	Assistant Professor
Rami Zurayk	Professor
Ali Chalak	Assistant Professor
Lamis Jomaa	Assistant Professor

Instructors

Dominique Anid

Research Assistants

Diana Marroush Abi-Said

Graduate Assistants

Farah Abi-Mosleh	Fall 2015, Spring 2016
Alam Jeanbein	Fall 2015, Spring 2016
Nour El Korek	Spring 2016
Nadiya Ibrahim	Fall 2015, Spring 2016
Rami Assaf	Fall 2015, Spring 2016
Elias Arja	Fall 2015, Spring 2016



TEACHING ACTIVITIES

Fall 2015–16

Course		Credits	Credits
RCODE	343	3	Hamadeh/Chalak
RCODE	344	4	Martiniello/Anid

Fall 2015–16

Course		Credits	Credits
RCODE	343	3	Hamadeh/Chalak
RCODE	341	3	Martiniello
RCODE	305	1	Martiniello

Research Activities (other than thesis) – Dr. Martiniello

Project title	Funding Agency	Amount
Integration of Smallholders in Global Value Chains: Challenges and Opportunities	AUB	6,000

Services (Dr. Martiniello)

AUB	Other
Working Committee on the New Social Sciences Department	

Thesis Supervision (Dr. Martiniello)

Student Name	Major	Thesis Title
Rami Assaf	RCODE	The Social Organization of Syrian Migrants in Lebanon Countryside
Farah Abi Mosleh	RCODE	The Role of Small Scale Production of Traditional Mouneh in Local Food Security: Case Study of Chouf and West Beqaa
Alam Janbein	RCODE	-

Conferences, Special Lectures, Workshops and Travel (Dr. Martiniello)

Activity	Date
Summer School "Progressive Social Forces, Social Movements and the Contemporary Agrarian Transformation in the South," African Institute of Agrarian Studies, Harare, Zimbabwe.	18-22 January 2016
Guest Lectures "Land Grabbing, Trasformazioni agrarie e migrazioni: prospettiva dall'Africa Orientale e dal Vicino Oriente," Università della Calabria, Cosenza, Italy.	29-31 May 2016
Conference "The Politics of State Intervention in Land Rights in Eastern Africa," French Institute for Research in Africa, Nairobi, Kenya.	22-23 June 2016
Guest Lecture "Bitter Sugarification: agro-extractivism, outgrowers schemes and social differentiation in Busoga, Uganda," Makerere University, Kampala, Uganda.	29 June 2016

STRATEGIC CHALLENGES

- RCODE program needs to develop a marketing strategy to increase students' enrollment.
- RCODE program needs to revise course offerings to align with its research strategy.
- RCODE program needs to develop a strategy for providing an exchange program and scholarship options for graduate students in partnership with private and public stakeholders.



“Arab Women: Keepers of the Land” ESDU 15th Anniversary Celebrations Preparations

The Environment and Sustainable Development Unit was born fifteen years ago in Spring 2001 at the Faculty of Agricultural and Food Sciences of the American University of Beirut. Since then, ESDU has managed to establish itself as one of the major trend-setters in R&D in the MENA region. It has also developed a strong base in rural sustainable livelihoods and participatory resource management. In addition, ESDU has been involved in the creation of public-private partnerships in order to enhance the operation of community-based enterprises drawing on the resources of a wide variety of donors.

To celebrate its 15th anniversary, ESDU planned a ceremony under the theme anniversary **“Arab women: Keepers of the Land”** during which ESDU paid tribute to partners and friends who marked the development world by advancing the role of women to preserve their lands and heritage. Award winning filmmaker Mai Masri delivered the keynote speech **“Through Women’s Eyes: Reclaiming a Fractured Land.”**

The celebrations were held on Thursday September 29, 2016 at the Faculty of Agricultural and Food Sciences and included an all day- long traditional farmers’ market, an award ceremony, a heritage dinner buffet, and special entertainment.

STRATEGIC CHALLENGES

- To attract students for the RCODE Master Program.
- To sustain KariaNet regional knowledge management network.
- To put Local Food Systems on the regional and international food security agenda.



V. DEPARTMENTAL REPORTS



DEPARTMENT OF **AGRICULTURE**

A. DEPARTMENT OF AGRICULTURE (AGRI)

Prepared by Dr. Shadi Hamadeh, AGRI Chairman Mr. Rami Elhusseini, AGRI Research Assistant

HIGHLIGHTS

- Selected as one of the seven worldwide academic institutions to co-host a two-day FAO webinar broadcasted from Rome on the role of Biotechnology in Agriculture which included university wide student and faculty participation.
- Finalized the revision of the BS in Agriculture program that was approved by the Senate and started the process for registering the new program at NYSED.
- Hosted Dr. Bruce McCarl, a Nobel Peace Prize laureate, on December 16, 2015 for a presentation and a talk on Agriculture and Climate Change.
- Dr. Ali Chalak was promoted to Associate Professor effective September 1, 2016.
- Dr. Abebe was recruited as full-time Assistant Professor in Agribusiness as of September 1, 2016.
- Initiated the recruitment process for 3 Assistant Professors in Agroecology, Plant breeding and Biotechnology and Animal Biotechnology, respectively.
- Dr. Elie Barbour was on periodic paid research leave for the whole AY 2015-16.
- Dr. Hadi Jaafar was on Junior Faculty Research Leave for Fall 2015-16.
- Dr. Youssef Abou Jawdeh received the National Energy Globe Award for his project "Production of biodiesel from Algae in selected Mediterranean Countries" which was selected by the jury of the Energy Globe Foundation.
- Produced 15 scientific manuscripts that were accepted in peer-reviewed journals/scientific series and 1 chapter in book in addition to many publications that are under consideration and manuscripts of relevance to the public and private sector.
- Offered 62 undergraduate and 13 graduate courses during the report period, in addition to thesis supervision for 16 graduate students.

PERSONNEL

The AGRI Department has eleven full- time faculty members, two visiting assistant professors, one instructor, fourteen part-time faculty members (total FTE: 16.52 based on Fall semester data), one research associate, and one senior research assistant. Graduate assistants were appointed for the Fall and Spring semesters. The tables below detail the personnel in the Agriculture Department.

Full-time Faculty

Shady Hamadeh	Chairman
Adib Saad	Professor
Youssef Abou Jawdeh	Professor
Isam Bashour	Professor
Mustapha Haidar	Professor/AREC Director
Elie Barbour	Professor
Mohamad Farran	Professor
Jad Chaaban	Associate Professor
Ali Chalak	Assistant Professor
Hadi Jaafar	Assistant Professor
Susan Prattis	Assistant Professor
Gumataw Abebe	Visiting Assistant Professor
Mirella Aoun	Visiting Assistant Professor
Rachel Bahn	Instructor



Part-time Faculty		
Youssef El Khalil	Lecturer	Fall, Spring
Nabil Nemer	Lecturer	Fall
Saada Dakdouki	Lecturer	Fall
Hashem El Hussein	Instructor	Fall, Spring
Rami Ollaik	Instructor	Fall, Spring, Summer
George Battikha	Senior Lecturer	Spring
Arlette Lteif	Lecturer	Spring
Makram Bou Nassar	Lecturer	Fall, Spring, Summer
Rawan Nassar	Instructor	Fall, Spring
Amer Najm	Lecturer	Summer
Sami Saad	Instructor	Fall
Mazen Tamer	Lecturer	Fall
Fabienne Gebara Maalouf	Instructor	Spring
Hania Chahal	Instructor	Spring

Research Associates and Research Assistants	
Lina Jaber	Research Associate
Hana Sobh	Senior Research Assistant
Rami El Hussein	Departmental Research Assistant
Alexandra Irani	Research Assistant (on grant)
Reem Talhouk	Research Assistant (on grant)
Jana Mourad	Research Assistant (on grant)
Patil Tawidian	Research Assistant (on grant)
Nour El Korek	Research Assistant (on grant)

Graduate Assistants	
Masahiro Morita	Fall 2015, Spring 2016
Hassan Awada	Fall 2015
Hadi Roumanos	Fall 2015
Basel Jammal	Fall 2015
Ghassan Mahmoud	Fall 2015
Roger Mazloum	Fall 2015, Spring 2016
Sandra Youssef	Fall 2015
Youssef Nassif	Fall 2015, Spring 2016
Mohamad Mortada	Fall 2015, Spring, Summer 2016
Mira Yehya	Fall 2015, Spring, Summer 2016
Mohammad Ali Haj Hassan	Spring, Summer 2016
Aya Haidar	Fall 2015, Spring 2016
Nour Nahouli	Spring 2016
André Abou Haidar	Spring 2016
Chafik Abdallah	Fall 2015, Spring, Summer 2016
Ali Haidar	Spring, Summer 2016

TEACHING ACTIVITIES

Fall 2015–16 Undergraduate

Course		Credits	Enrollment	Instructor
AGSC	201	2	22	Saad/Hamadeh
AGSC	204	3	22	Tamer/Dakdouki
AGSC	212	3	32	Khalil/Nassar
AGSC	212	3	32	Khalil/Nassar
AGSC	215	3	15	Bashour
AGSC	219	3	15	Ollaik
AGSC	219	3	14	Ollaik
AGSC	220	3	29	Tamer
AGSC	221	3	26	Nemer
AGSC	232	3	27	Abou Jawdeh
AGSC	235	2	28	Martiniello
AGSC	241	3	13	Khalil/Saad
AGSC	295	3	7	Abou Jawdeh
AGSC	296	1	8	Chalak/Saad
AGBU	211	3	19	Abebe
AGBU	213	3	10	El Hussein
AGBU	236	3	11	Bahn
AGBU	239	0	13	Bahn
AGBU	240	0	6	Bou Nassar
AGBU	248	3	10	Abebe
AGBU	292	5	7	Bou Nassar/Abebe
AVSC	220	3	21	Farran/Jaber
AVSC	230	3	19	Prattis
AVSC	243	3	24	Hamadeh
AVSC	271	3	26	Farran
AVSC	275	3	19	Jaber
AVSC	281	3	16	Farran

Fall 2015–16 Graduate

Course		Credits	Enrollment	Instructor
AGSC/RCOD	301/343	3	14	Hamadeh/Chalak
AGSC	324	3	5	Bashour
AGSC	384	3	4	Chaaban
AGSC	395	1	3	Bashour/Saad
AGSC	396	0	1	Jaafar
AGSC	396	0	2	Chalak
AGSC	396	0	1	Bashour
AGSC	396	0	1	Chaaban
AGSC	396	0	1	Haidar
AGSC	399	9	2	Chalak
AGSC	399	9	1	Haidar
AGSC	399A	9	1	Abou Jawdeh
AGSC	399A	9	2	Bashour
AVSC	307	3	3	Farran
AVSC	395	1	3	Bashour, Saad
AVSC	399 A	9	1	Barbour
RCOD	344	4	5	Martiniello/Anid



Spring 2015-16 Undergraduate

Course		Credits	Enrollment	Instructor
AGSC	201	2	24	Jaber
AGSC	202	3	14	Lteif
AGSC	203	3	24	AbouJawdeh/Gebara
AGSC	212	3	37	Khalil/Nassar
AGSC	212	3	28	Khalil/Nassar
AGSC	219	3	15	Ollaik
AGSC	219	3	15	Ollaik
AGSC	222	1	24	Haidar
AGSC	224	3	24	Aoun
AGSC	225	3	15	Martiniello
AGSC	228	3	24	Jaafar
AGSC	231	3	24	Bashour
AGSC	253	3	7	Aoun/Chahal
AGSC	265	3	18	Bashour
AGSC	278	3	24	Battikha
AGSC	284	3	24	Haidar
AGSC	292	5	7	Bou Nassar/Bahn
AGSC	295	3	10	Abou Jawdeh
AGSC	296	1	11	Jaber
AGBU	210	3	7	Abebe
AGBU	213	3	12	El Hussein
AGBU	240	0	6	Bou Nassar
AGBU	255	3	7	Chaaban
AVSC	220	3	46	Prattis
AVSC	222	3	24	Prattis
AVSC	224	3	14	Chaib
AVSC	230	3	30	Prattis
AVSC	281	3	23	Farran

Spring 2015-16 Graduates

Course		Credits	Enrollment	Instructor
AGSC	300C	3	1	Bashour
AGSC/RCOD	301/343	3	5	Hamadeh/Chalak
AGSC	311	3	3	Abou Jawdeh
AGSC	330	3	7	Jaafar
AGSC	376	3	6	Chalak
AGSC	384	3	6	Chaaban
AGSC	389	3	2	Chalak
AGSC	396	0	1	Chaaban
AGSC	399	9	1	Chalak
AGSC	399A	9	1	Chalak
AGSC	399A	9	1	Jaafar
AGSC	399B	9	2	Bashour
AVSC	399	9	1	Barbour
AVSC	399B	9	1	Barbour
RCOD	305	1	3	Martiniello
RCOD	341	3	10	Martiniello
RCOD	395	0	1	Hamadeh

Summer 2015–16 Undergraduate

Course		Credits	Enrollment	Instructor
AGSC	219	3	11	Ollaik
AGSC	223	2	20	Haidar
AGSC	226	3	20	Najm
AGBU	229	3	10	Bou Nassar
AGBU	236	3	1	Chaaban
AGBU	256	1	11	Bou Nassar
AVSC	226	3	20	Farran

Summer 2015-16 Graduate

Course		Credits	Enrollment	Instructor
AGSC	399	9	1	Abu Jawdeh
AGSC	399	9	3	Jaafar
AGSC	399A	9	1	Chalak
AGSC	399B	9	1	Jaafar
AGSC	399C	9	1	Bashour
AVSC	399	9	1	Barbour

COMPLETED THESIS

- Patil Tawidian, January 2016. "Almond witches' broom phytoplasma: Development of detection methods, epidemiology and management of the disease." Advisor: **Dr. Yusuf Abou Jawdah**.
- Razan Dbaibo, May 2016. "Uptake of Cadmium, Lead, and Nickel by *Origanum Syriacum* produced in Lebanon," Plant Science. Advisor: **Dr. Issam Bashour**.
- Roger Mazloun, May 2016. "Comparison of husbandry and egg quality of conventional and free-range commercial layers," Animal Science. Advisor: **Dr. Elie Barbour**.
- Paul-Marc Massabni, May 2016. "The determinants of loan default risks among small and medium agro-food enterprises in Lebanon," Agricultural economics. Advisor: **Dr. Ali Chalak**.

RESEARCH FUNDING**Internal Grants****Six members of the AGRI Department received the following University Research Board grants (URB)**

- Abou Jawdeh, Y. "Development of serological methods for detection of almond witches' broom Phytoplasma."
- Abebe, G. "Supermarketization in the MENA Region."
- Chalak, A. "The Political Economy of Agrarian Protest among Tobacco Leaf Farmers in South-Lebanon since 1960."
- Chalak, A. "Household Food Waste Generation in Urban Lebanon: Behavioral Patterns, Economic Costs and Policy Options."
- Hamadeh, S. "Adaptation Strategies of Small Ruminants Production Systems to Environmental Constraints in Semi-Arid Areas of Lebanon-Shouf and West Beqaa," (2014-2016).
- Jaafar, H. "Response and water requirements of *Origanum syriacum* using smart-irrigation."



- Prattis, S. "The Impact of Gut Microbiota and Physiological Responses in Developing Translational Bowel."
- Prattis, S. "Disease Models for Humans and Animals"–2016 University Funded Junior Research Leave.

Local, Regional and International Grants

Eight members of the AGRI Department were successful in attracting national and international grants as below:

- Abou Jawdeh, Y. "Tomato resistance to TYLCV and abiotic stress." Al Balqaa University.
- Abou Jawdeh, Y. "Almond witches' broom phytoplasma: epidemiology, detection and management," LNCSR (2014-2016).
- Abou Jawdeh, Y. "Integrated Pest management in Greenhouse vegetables" as Co-PI and main researcher, shifted to PI starting December 2015 at renewal of project, applied for year 3.
- Bashour, I. "Plant uptake of antibiotics from manure amended soils," LNCSR.
- Chaaban, J. "Socio-economic Survey of Palestine Refugees in Lebanon," UNRWA.
- Chaaban, J. "Syrian Refugees Household Profiling," UNRWA.
- Chaaban, J. "Rapid Poverty Assessment in Lebanon," UNDP.
- Chalak, A. "A comprehensive, integrated, and bottom-up approach to reset our understanding of the Mediterranean space, remap the region, and reconstruct inclusive, responsive, and flexible EU policies in it, European Commission, Horizon 2020," MEDRESET.
- Chalak, A. "Comparative study of alternative micro-gardening models for poor marginalized communities," FAO.
- Chalak, A. "Alcohol control and harm policies in Lebanon: The industry, the market and the young consumer," IDRC.
- Farran, M. "Effective Treatment of Mycoplasma gallisepticum in Broiler Breeder Chickens by Pulmotil AC and Denagard," ELANCO, (March 8, 2016 – December 31, 2016).
- Farran, M. "Effect of dietary Hemicell on reproductive performance of broiler breeders under commercial settings and the early livability of their progeny," Eli Lilly.
- Hamadeh, C. "Bringing Education to Informal Tented Settlements – Establishment of School Kitchen," Reach Out to Asia – Qatar Foundation, (2015-2017).
- Hamadeh, C. "Hosting the Regional Knowledge Management and Knowledge Sharing Network KariaNet Project," IDRC, (2015-2018).
- Hamadeh, C. "Establishing a food trail in the high Shouf and West Beqaa region," DAI, (2014-2015).
- Hamadeh, C. "Building the Food Security and Economic Resilience of Syrian Refugees and Vulnerable Members of their Host Communities in Beirut," Near East Foundation, (2015-2016).
- Jaafar, H. "Modeling response of groundwater levels to increased irrigation in the Qaa using NASA GRACE data," ICARDA-WLI.
- Jaafar, H. "Precision Irrigation - a hybrid ET based and Soil Moisture based Irrigation Scheduling System Optimization of Sensor Use," ICARDA-WLI.
- Jaafar, H. "Mapping Evapotranspiration in Lebanon in the using Landsat and local weather Data," LNCSR.



PUBLICATIONS

Books/Chapters in Books

- **Abebe, G.K.**, Bijman, J., Pascucci, S., Omta, S.W.F., Tsegaye, A., 2016. "Diverging quality preferences along the supply chain: implications for variety choice by potato growers in Ethiopia," in: Bijman, J., Bitzer, V. (Eds.), *Quality and innovation in food chains*. Wageningen Academic Publishers, pp. 119-140. DOI: <http://dx.doi.org/10.3920/978-90-8686-825-4>.
- **Bashour, I.** "Guidelines for Fertilization of Vegetables and Landscape plants in Arid and Semi-arid Regions," 100 pages, under review (AUBPress).

International Refereed Journals (Corresponding/Senior Author*)

- Quaglino F., Kube M., Jawharim., **Abou-Jawdah Y.**, Siewert C., Choueiri E., Sobh H., Casati P., Tedeschi RM., Molino- Lova M., Alma A., Bianco P. A. 2015. 'Candidatus Phytoplasma phoenicium' associated with almond witches'-broom disease: from draft genome to genetic diversity among strain populations. *BMC Microbiology* 15: 148. DOI: 10.1186/s12866-015-0487-4.
- Casati P., Quaglino F., **Abou-Jawdah Y.**, Picciau L., Cominetti A., Tedeschi R., Jawhari M., Choueiri E., Sobh H., Molino Lova M., Beyrouthy M., Alma A., Bianco P.A. 2016. Wild plants could play a role in the spread of diseases associated with phytoplasmas of pigeon pea witches'- broom group (16SrIX). *Journal of Plant Pathology* 98: 71-81.
- **Jaafar, H. H.**, F. Al - Awar, and F. Ahmad, 2016: "Effect of Inflow Class Selection on Multi-Objective Reservoir Operation Using Stochastic Dynamic Programming." *Arabian Journal for Science and Engineering*: 1-16. <http://link.springer.com/article/10.1007/s13369-016-2185-4>.
- **Jaafar, H. H.**, & Ahmad, F. A. (2015). Crop yield prediction from remotely sensed vegetation indices and primary productivity in arid and semi-arid lands. *International Journal of Remote Sensing*, 36(18), 4570-4589. <http://www.tandfonline.com/eprint/wQD53C8eKDIkqFtAwhbv/full>
- **Abebe, G.K.**, Bijman, J., and Royer, A. 2016: "Are Middlemen Facilitators or Barriers to Improve Smallholders' Welfare in Rural Economies? Empirical Evidence From Ethiopia," *Journal of Rural Studies*, vol.43, pp-203-213.
- **Ali Chalak**, Chaza Abou-Daher, Jad Chaaban, Mohamad G. Abiad, "The global economic and regulatory determinants of household food waste generation: A cross-country analysis, *Waste Management*," Available online 8 December 2015, ISSN 0956-053X, <http://dx.doi.org/10.1016/j.wasman.2015.11.040>.
- **Jad Chaaban**, Alexandra Irani, Alexander Khoury, "The Composite Global Well-Being Index (CGWBI): A New Multi-Dimensional Measure of Human Development, *Social Indicators Research*," DOI: 10.1007/s11205-015-1112-5, October 2015.
- **Haidar, M.** and Shdeed E. 2015: "*Phelipanche aegyptiaca* management with glyphosate in potato," *American Journal of Plant Sciences*, 6 (16): 2540-2549 NO IF.
- Abou-Fakhr Hammad, E., A. Zeaiter, N. Saliba, **M. Farran**, and S. Talhouk, 2015: "Bioactivity of fractionated indigenous medicinal plant extracts of *Phlomis damascena* Born, and *Ranunculus myosuroides* against the cotton whitefly, *Bemisia tabaci*," (Hemiptera: Aleyrodidae), *J. Entomol. Nematol.* 7(5): 46-53 NO IF.
- G.W. Barbour, N.N. Usayran, S.K. Yau, S.K. Murr, H. A. Shaib, N.N. Abi Nader, G.M. Salameh, and **M.T. Farran (corresponding author)** 2016: "The effect of safflower



meal substitution in a lysine fortified corn-soybean meal diet on performance, egg quality, and yolk fat profile of laying hens,” J Appl. Poult. Res. 25: 256-265.

- **Bashour, I.**, A. Al-Ouda, A.Kassam, R.Bachour, K. Jouni, B. Hansmann and C. Stephan, 2016: “An overview of conservation agriculture in the dry Mediterranean environments with a special focus on Syria and Lebanon,” AIMS Agriculture and Food, 1(1):67-84. NO IF.
- **Prattis, S.**, & Jurjus, A, 2015: “Spontaneous and transgenic rodent models of inflammatory bowel disease,” laboratory animal research, 31(2), 47-68. NO IF.
- Shehata, M.M., Chu, D.K., Gomaa, M.R., Abi Said, M., El Shesheny, R., Kandeil, A., Bagato, O., Chan, S.M., **Barbour, E.K.**, Shaib, H.S. and McKenzie, P.P., 2016: “Surveillance for coronaviruses in bats, Lebanon and Egypt,” 2013–2015. *Emerging infectious diseases*, 22(1), p.148.
- Al-Malki, A.L., **Barbour, E.K.**, Abulnaja, K.O., Moselhy, S.S., Kumosani, T.A. and Choudhry, H., 2016: “*Balanites aegyptiaca* protection against proliferation of different cancer cell line,” *African Journal of Traditional, Complementary & Alternative Medicines*, 13(2).
- Khan, I., Azhar, E.I., Abbas, A.T., Kumosani, T., **Barbour, E.K.**, Raoult, D. and Yasir, M., 2016: “Metagenomic analysis of antibiotic-induced changes in gut microbiota in a pregnant rat model,” *Frontiers in pharmacology*, 7.

ABSTRACTS AND CONFERENCE PROCEEDINGS

- **Prattis S.**, Shaib H., Makki B.E., Fawwaz M., Kassem S., Morkos S., Tanios J., Tarner M. and Majed H. “Combined Inapparent Zoonotic Diseases in an Awassi Ewe: Implications for Health and Biosecurity Management”– American Association for Laboratory Animal Science Conference, October 2016, Charlotte, NC, USA.
- **M. Haidar** and W. Siblani, 2016. “Reduced rates of metribuzin and hilling for weed management in potato.” Western Society of Weed Science, March 2016.
- **Abebe, G.** 2016. “Promoting adoption of Good Agricultural Practices through ‘Co-regulation,” presented at the “Expert Group Meeting on the Scope and Setting up of an Arab–Good Agricultural Practices (Arab–GAP) Framework Cairo, Egypt”, organized by UN- ESCWA in cooperation with the FAO, May 31– June 1, 2016.
- **Chalak, A.**, A. Irani, **J. Chaaban**, I. Bashour, K. Seyfert, K. Smoot, **G. K. Abebe**. 2016: “Farmers’ willingness to adopt conservation agriculture: New evidence from Lebanon,” presented at the 2nd International Conference on Global Food Security, Cornell University, Ithaca, New York, USA, 11-14 November 2015.
- Chedid, M., Tourrand, J-F, Bousquet, F., **Hamadeh, S.** 2016: “Resilience indicators of small-ruminants systems–case study from semi-arid Lebanon”. Accepted for the EcoSummit 2016 Ecological Sustainability: Engineering Change, August 29, September 1, 2016.
- **Jaafar, H.**, Khraizat, Z., Bashour, I., & Haidar, M. (2015). “Water productivity of *Origanum syriacum* under different irrigation and nitrogen treatments using an automated irrigation system,” Wessex Institute 13th Water Resources Management Conference, June 20-June 15, 2015, La Corona, Spain.

POLICY PAPER

- **Chaaban, J.**, Harb, J. 2016: “Macroeconomic implications of windfall oil and gas revenues in Lebanon, LCPS Policy Paper,” December 2015. <http://www.lcps-lebanon.org/publication.php?id=280&category=800&title=800>



OTHERS

- **Abou Jawdeh, Y.** 2016: "Pamphlet on natural enemies used in vegetable and ornamental crops in Lebanon," (English and Arabic versions).

SERVICES

Youssef Abou Jawdeh

AUB

- 1- Member of the Advisory Committee
- 2- Member of the Research Committee

Others

1. Member of the Pesticide Legislation Committee, Ministry of Agriculture
2. Member of the Pesticide Scientific Committee, Ministry of Agriculture
3. Member of the American Phytopathological Society APS MN, USA
4. Member of the Arab Society for Plant Protection, Beirut, Lebanon
5. Member of the International Working Group on Legume and Vegetable Viruses (IWGLVV)

Mirella Aoun

1. Preparing a design and a budget for an orchard of intensive production of new varieties at AREC.
2. Survey of nurseries in Lebanon for supplying Lebanese fruit tree producers with recommended certified seedlings.

Isam Bashour

AUB

1. FAFS Coordinator of Graduate Studies
2. Member of the departmental Review Committee

Others

1. Follow-up on conservation agriculture activities in Lebanon
2. Fertilizer Committee and Conservation agriculture Committee at the Ministry of Agriculture, Lebanon

Jad Chaaban

AUB

1. Member of AUB Waste Management Task Force
2. Senate representative for FAFS

Others

1. Member of the Reference Group (RG) for the concept note for the new Danish Arab Partnership Programme (DAPP) 2017-2021, Danish Ministry of Foreign Affairs
2. President of AUB Faculty United
3. Board Member, Lebanese Economic Association
4. Advisory Board Member, Co-Opinion <http://www.co-opinion.org/advisory-board/>

Ali Chalak

AUB

1. Faculty Undergraduate Coordinator for the Agribusiness Program
2. Ad Hoc Interdepartmental Committee to oversee the M.Sc. in Rural and Community Development (RCODE)
3. Member of the FAFS Student Affairs Committee
4. Member of the FAFS Undergraduate Curriculum & Undergraduate Student Academic Affairs Committee
5. Member of the University Committee on Students Affairs (UCSA)
6. Member of University Senate Committee
7. Member of the Senate Committee for Faculty Affairs (SCFA)
8. Faculty Advisory Committee for the Climate Change and Environment in the Arab World Program, Issam Fares Institute for Public Policy and International Affairs



Others

1. Reviewer for international peer reviewed journals
2. Judge and advisor for the Agribusiness section of the Innovative Projects Awards 2016

Mohamad Farran

AUB

1. Coordinator of undergraduate studies at FAFS
2. FAFS representative on the "Poultry Committee" at the Ministry of Agriculture. FAFS Representative on the National Feedstuffs Committee" at the Ministry of Agriculture
3. Member of FAFS Advisory Committee and Academic and Curriculum Committee,
4. Member of the Disciplinary Committee
5. FAFS Undergraduate Studies coordinator
6. FAFS representative on AUB Advising Steering Committee, Advising Website Committee and General Education Board
7. Member of OSB Extended Advisory Committee

Others

1. Member of Board of Administration, Lebanese National Council for Scientific Research
2. Member of the Scientific Committee of the 5th Mediterranean World Poultry Science Association Summit
3. Member of the Lebanese Association for Advancement of Sciences
4. Advisor on the Parliamentary Committee for Agriculture and Tourism, Republic of Lebanon
5. Reviewer for national research proposals and for refereed journals
6. Helping several animal farmers and crop growers either on individual basis or through NGOs or UN organizations in Lebanon

Mustafa Haidar

AUB

1. Director of AREC
2. Member of the FAFS Student Affairs Committee
3. Member of the FAFS Administrative Committee
4. Member of the FAFS Graduate Committee

Others

1. Chairman of the National Committee for Conservation Agriculture in Lebanon, Ministry of Agriculture
2. Board member in the Lebanese Autism Society
3. Member of the National Organic Agriculture Committee, Ministry of Agriculture
4. Meeting Farmers in Beqaa Plain

Shady Hamadeh

AUB

1. Chairman of the Agriculture Department
2. Member of the Inter-Faculty Food Security program
3. Chairman of the RCODE Committee
4. Coordinator of the Environment and Sustainable Development Unit (ESDU)
5. Member of AUB Task Force for DVM development
6. Member of Inter-Faculty Food Security Committee

Others

1. Executive Board member of RUAF
2. Coordinator of the National Training Unit under the NEMTA project supported by IFAD

Hadi Jaafar

AUB

1. Service on New Program launching in the AGRI Department
2. Service on accreditation of new program
3. Member of the FAFS Graduate Studies Committee
4. Advisor for water program in Progreen online Diploma

Others

1. Committee on Climate Change and combatting desertification in the Ministry of Agriculture
2. Member of Scientific Committee of Ibrahim Abdel-Al Foundation

Susan Prattis

AUB

1. Lead Writer, Program Planning and Budget, AUB School of Veterinary Medicine Planning Document: Conducted Veterinary Workforce Study
2. Member of the FAFS Student Affairs Committee
3. Member of the FAFS Graduate Student Committee
4. Member of the FAFS and University Library Committee
5. AUB Committee on Campus Felines
6. AUB Choir and Chorus
7. Member, Nature Center Committee; Contributor, Task Force Monograph for Beirut Waste Management
8. Science Judge-22nd Annual Science, Math and Technology Fair, SMEC and Education Students Society, AUB, April 2016
9. Principle Investigator, IRB Proposal: Developing Cat Colony Policy and Gaining Stakeholder Input–University and Alumni–wide Lime Survey Assessment prior to executive office decision making and formulation of cat colony management policy

10. Manuscript and Presentation Reviewer, 7th International Elthe Conference, Center for Teaching and Learning, AUB
11. Reviewer, K-12 Science Fair, Department of Education, AUB

Others

1. Proposal and Presentation Reviewer; Academy of Management 2016 Annual Conference, Anaheim, CA
2. Reviewer for Nonprofit and Public Administration; Business, Policy and Strategy; and Entrepreneurship Special Interest Groups-Practitioner-Scholarship Committee; Diversity Theme Committee
3. Board Member; Angelica Patients Assistance, NY
4. Manuscript Reviewer and editorial panel; Symbiosis Journal of Veterinary Sciences
5. Proposal and Presentation Reviewer; Academy of Business and Emerging Markets Annual Conference 2016, Phnom Penh, Cambodia
6. Organizing Member and Participant: EVERI Task Force: Stimulating Innovation and Research for Veterinary Medicine. Authored a White Paper Monograph for presentation during Fall 2016 Congress with other international task force members and authors.

Adib Saad

AUB

1. Member of FAFS Academic Affairs Committee
2. Member of the AUB Academic Development Committee

Others

1. Member of the American Phyto-Pathological Society
2. Continued to serve as Senior Editor of "Phytopathologia Mediterranea", official journal of the Mediterranean Phytopathological Union.



PARTICIPATION IN WORKSHOPS, MEETINGS AND CONFERENCES

Gumataw Abebe

- Participated in the "First consultation meeting on component I of the food and water security project, Cairo, Egypt", organized by UN-ESCWA in cooperation with the FAO, May 29-30, 2016.
- Participated and presented in the "Expert Group Meeting on the Scope and Setting up of an Arab-Good Agricultural Practices (Arab-GAP) Framework Cairo, Egypt," organized by UN- ESCWA in cooperation with the FAO, May 31-June 1, 2016.



Youssef Abu Jawdeh

- Organized two new workshops on IPM in Byblos and Rmeileh on April 11 and April 12, 2016, in cooperation with the University of Vermont and the Ministry of Agriculture.
- Awarded the National Energy Globe Award for his project "Production of biodiesel from Algae in selected Mediterranean Countries" which was chosen by the jury of the Energy Globe Foundation.
- Conducted a video on microalgae research in Lebanon; broadcasted on LBCI, (2014, updated 2015).
- Regional meeting of the research group on "breeding tomato for resistance to TYLCV and abiotic stress." Presented a paper. Madrid, Spain, January 17-22, 2016.

Isam Bashour

- Organized several local and regional workshops on Conservation Agriculture.

Jad Chaaban

- Participated in the Annual Youth Summit titled "Youth Empowerment: Political Participation & Economic Development in the Middle East & North Africa" at Bogazici University, Istanbul.
- Asking the right questions for the fate of Arab countries, Open Democracy, 15 November 2015. <https://www.opendemocracy.net/arab-awakening/jad-chaaban/asking-right-questions-for-fate-of-arab-countries>

Ali Chalak

- Attended and presented a poster at the 2nd International Conference on Global Food Security, Cornell University, Ithaca, New York, USA, 11-14 November 2015.
- Closed Methodology Workshop on Labor Movements and the Quest for Social Justice in the Arab World, ISF, AUB, 3-4 December 2015.
- "Corporate funding and Public Health: An Open discussion." Workshop organized by the Alcohol Harm Reduction research team, AUB, Gefinor Rotana Hotel, 17 December 2015
- MEDRESET project Steering Committee and Kick-off conference on Resetting Mediterranean Relations held by the Italian International Affairs Institute (IAI), Rome, Italy, 13-14 April, 2016

Hadi Jaafar

- Presented the "Impact of the Syrian Conflict on Irrigated Agriculture in the Orontes Basin," WLI 7th Annual Regional Coordination Meeting, 3-4 November, 2015, Amman, Jordan.

- Attended and presented at the Wessex Institute 13th Water Resources Management Conference, June - 15, 2015, La Corona, Spain.
- Invited by Director of office of international research programs at USDA-ARS to work with Dr. Martha Anderson, a Research Physical Scientist, at the USDA-ARS Hydrology and Remote Sensing Laboratory, to further develop a joint research collaborative project on May 14- 21, 2016.

Mohamad Farran

- Attended the PPR Roadmap meeting for the Middle East Region, by OIE-FAO, Dec. 1-3, 2015, Doha, Qatar.
- Represented CNRS in attending the Abdul Hameed Shoman Prize distribution, Nov. 10-11, 2015, Amman, Jordan.
- Attended ELANCO Nutrition Symposium, Nov. 17-19, 2015, Jordan.
- Trained technicians and small scale poultry producers, through WSPA, on the sustainability of rural egg production across the country.

Mustapha Haidar

- Attended and presented a paper at the Annual Meeting of the Western Society of weed Science, 7-10 March, 2016 in Albuquerque, NM, USA.

Shady Hamadeh

- Visited FAO, Rome, between March 17 and 19, 2016 to discuss collaboration on sustainable food systems between FAO and RCODE/ESDU at FAFS.
- Invited to visit CIRAD, Montpellier France between May 7-12, 2016.
- Invited to visit the "Sustainable City" by Diamonds and Diamonds developers, Dubai, UAE, May 18-19, 2015.
- Represented the Provost in Al Quds Academy meeting that was held in Amman, Jordan between June 23-24, 2016.

Suzan Prattis

- Academia and Social Justice, the 2nd Annual Social Justice Conference, IFRI, Beirut March 11-13, 2016
- Seventh International Conference on Effective Teaching and Learning in Higher Education, AUB, February 12 & 13, 2016
- Macro- to Micro- Esthetics: Saving Smiles, Emotion and Communication, First AUB Orthodontic Alumni Society Conference, AUBMC. February 24, 2016
- Conference Organizing Team and Participant: Building a More Meaningful Academy Experience: Creating



Connections in Today's Multicultural and Diverse Academy of Management; Academy of Management, Anaheim, California, August, 2016

- Participant: Forging Meaningful International Research Collaborations, Academy of Management, Anaheim California, August 2016
- Designing Search Strategies for Systematic Reviews– Center for Medical Education, May 2016
- AUB Philosophy Graduate Student First Annual Conference, May 2016
- Asfari Institute for Civil Society and Citizenship/Arab Studies Institute Second Annual Conference, Academia and Social Justice, March 2016



CONSULTANCIES

Dr. Bashour conducted consultancies in different Arab and African countries.

Strategic Challenges

- Need to finalize the registration procedure of the new agriculture program in NYSED and initiate a promotion strategy to launch it.
- Need to complete recruitment effort in order to fill the needed lines according to the recruitment strategy.
- Need to capitalize on the new facilities and space allocations at the faculty towards an improved and more effective teaching and research environment.
- Need to develop a strategy for graduate programs revision and alignment with the new undergraduate program and the research strategy of the department.
- The department is challenged with developing strategy for funding its research strategy and for providing scholarship options for undergraduate and graduate students, in partnership with alumni and private and public stakeholders.



DEPARTMENT OF
**LANDSCAPE DESIGN
& ECOSYSTEM MANGEMENT**

B. DEPARTMENT OF LANDSCAPE DESIGN & ECOSYSTEM MANAGEMENT (LDEM)

Prepared by Dr. Rami Zurayk and Nadine Modad

HIGHLIGHTS

The LDEM Department consists of eight full-time faculty members. Two programs are currently offered by LDEM; one Bachelor of Landscape Architecture (BLA) and one Master of Science in Ecosystem Management (ECOM) degree which is part of the Interfaculty Graduate Environmental Sciences Program (IGESP). In 2015-2016, LDEM graduated 28 BLA students and 4 MSc students.

DEPARTMENT ACADEMIC ACTIVITIES

The following was achieved during the academic year 2015-2016:

- Development of a Master of Landscape Architecture (MLA) program: The subcommittee including Makhzoumi, Trovato (Chair of committee), and Zurayk revised and finalized the draft document of an MLA proposal. The proposal is currently under review at the Faculty's Graduate Studies Committee (GSC) level.
- Program Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs) assessment: the master list of the PLO/CLO for the program which was reviewed during December 2015 identified short-comings in the program which led to program revision currently being conducted to be finalized during Fall 2016-2017. Direct and indirect assessment of program and course learning outcomes were carried out during December 2015-January 2016 and during April-May 2016, headed by R. Zurayk and assisted by E. Abdel Sater.
- Curriculum adjustments: The LDEM Department was engaged in a process of curriculum adjustment in the wake of the program review and the PLO/CLO assessment results. On April 13, 2016, BLA curriculum adjustments voted upon by LDEM were approved by the Academic Curriculum Committee (ACC) at FAFS. Changes are effective Fall 2016-2017 for new students entering the program in Fall 2016-2017. These changes were mostly organizational.
- Promotion and Reappointment Criteria for LDEM faculty: LDEM Faculty members have been working on a proposal regarding promotion and reappointment criteria and procedures for LDEM (Finalized and approved by the department on September 16, 2016 and sent to the Dean on September 19, 2016).

NEW AND VISITING FACULTY

- **Faculty on Leave:** M. G. Trovato was granted a junior research leave for Fall 2015-2016 which she spent in Lebanon. Her research agenda included: Data analysis, writing up and submission of manuscripts and updating teaching material.
- **Faculty on Maternity Leave:** N. Al-Akl was granted a maternity leave for the Fall term, from September to December 2015.
- **Advertised Positions:** The department advertised for the vacant faculty position in Landscape Architecture (focus: Site engineering and design construction) for the 2015-2016 academic year (deadline was October 15, 2015). The Search Committee short-listed three candidates in December 2015. The selected candidate joined the department effective Fall 2016-2017.
- **New Faculty:** Ms. Beata Dreksler joined the department as a landscape architecture visiting assistant professor (focus: landscape design and site construction) effective August 2016 for a period of two years.



- **Visiting Scholar:** In November 2015, the department received the Interim Provost approval for FAFS recommendation to invite Dr. Charles Waldheim as a URB Visiting Scholar during Spring 2015-2016. Dr. Waldheim is John E. Irving Professor of Landscape Architecture and Chair of the Landscape Architecture Department (2009-present) at Harvard University's Graduate School of Design, USA. The visit was cancelled since Dr. Waldheim relayed health concerns that make him unable to fly on economy class for a long distance.
- **Shifting Vacant Landscape Horticulture Position to Landscape Architecture History Position:** In November 2015, the department requested the Dean's approval to shift the currently vacant faculty line in landscape horticulture to a landscape architecture history line in order to meet the BLA teaching needs and to respond to the program review which was conducted in December 2014. The request was approved in January 2016. The department advertised for this position for the 2016-2017 academic year (deadline was April 15, 2016). Only two candidates applied for the position, which is most probably due to the security issues arising and the unstable political situation in the area. The department will re-advertise for this position at a later time.
- **Non-Academic Position:** The department advertised through the university's human resources Department for a non-academic position at the level of administrative officer. Deadline for receiving applications was April 19, 2016. The selected candidate was the current senior research assistant at LDEM, Ms. Nadine Modad, who resumed her duties as administrative officer effective August 25, 2016.

FACULTY ACTIVITIES

Faculty members of the department conducted numerous activities to enhance student learning experience including:

- **Lebanese Landscape Observatory:** On October 7, 2015, the LDEM Department recommended approval of the request of Dr. Maria G. Trovato's proposal for establishing a Lebanese Landscape Observatory (LLO). Current status: on hold.
- **Town Hall Meeting:** The department held a town hall meeting with the LDEM students on December 3rd, 2015. In addition to the usual general discussion, the department shared the latest developments in regard to moving the department facilities to Reynolds Hall.
- **The Lebanese Landscape Association (LELA):** An NGO was established in June 2015 by professors J. Makhzoumi and N. Al Akl (LDEM-AUB) and professor S. Samaha, Chair of the Department of Landscape at the Lebanese University, with the assistance of professor M. G. Trovato and Ms. Salwa Sabbagh, with the aim of promoting landscape architecture in Lebanon. LELA received formal approval at the 2015 IFLA World Council held in Saint Petersburg, Russia and will serve as the Lebanese Chapter of the International Association of Landscape Architects (IFLA). LELA and LDEM prepared for the IFLA Beirut conference at AUB (details below) which was held in May 2016.
- **The IFLA Beirut Conference:** The first regional conference devoted to the landscape architecture discipline: the department (J. Makhzoumi, M.G. Trovato, N. Al-Akl and Y. Abunnasr) and the Lebanese Landscape Association (LELA), NGO established in June 2015 by professors J. Makhzoumi and N. Al Akl (LDEM-AUB) and professor S. Samaha, Chair of the Department of Landscape at the Lebanese University, with the assistance of professor M. G. Trovato (LDEM) and Ms. Salwa Sabbagh, prepared for and organized the International federation of Landscape Architects (IFLA) Beirut conference event held in AUB during May 31-June 2, 2016 under the title "Unfolding Middle Eastern Landscapes: Changing Forms, Evolving Tools, Transforming Meanings." Due to this major initiative spearheaded by the Faculty of Agricultural and Food Sciences

members and colleagues at the Lebanese University, landscape architecture was embedded in the Middle East with the first regional conference devoted to the discipline. The conference brought together academics, professionals and researchers to dialogue ongoing transformations of the landscapes we inhabit, to expose different design, planning and management methodologies and approaches and to question shortcomings and obstacles to professional advancement in the region. Delegates came from across the Arab world, Iraq, Jordan, Palestine and the Gulf, as well as from Canada, Italy, Serbia and Turkey to participate. There were 42 contributions from 15 countries and sessions covered recovering, conserving, and maintaining heritage landscape features, the role of agriculture in enhancing landscape, greening of urban spaces, environmental protection, sensitive infrastructure projects, and landscape architecture as a tool and supporter of human rights and social justice. After two days of academic papers, delegates were treated to a trip to the Shouf Biosphere Reserve.

- **LDEM Chair's Award of Excellence:** The 2016 Chair's Award of Excellence was awarded to three outstanding Final Year Landscape Architecture students. Student awardees were Nour Farhat, Tamar Sarkissian, and Jana Tabbara. The selection of the awardees was completed by the Chair, Department Faculty, and invited Jurors. The award will be presented during a brief departmental ceremony (Date and time will be determined later). This annual award highlights the critical importance increasingly given to students' excessive efforts, meaningful progress, and significant works.
- **Archiprix 2017:** the department selected the graduation project of Ms. Tamar Sarkissian (LDEM graduate-May 2015; advised by Y. Abunnasr) to participate in the Archiprix 2017. Archiprix international is a biennial event that presents the worlds' best graduation projects selected by universities and colleges teaching architecture, urban design and landscape architecture across the world. All projects will be included in a major exhibition. A book cataloguing the projects will also be published. The Archiprix workshops will be held at the CEPT University in Ahmedabad, India, in February 2017.





PUBLIC LECTURES AND SEMINARS

Presenter name	About the Presenter	Lecture/Seminar Title	Date and location
R. Zurayk, M. Mundy, S. El Nour and C. Gharios (FAFS and IGESP)	R. Zurayk is Professor and Chair of LDEM and acting IGESP director. This was part of his research grant 'The Palimpsest of Agrarian Change'.	"And What if One Spoke of the Land? – Labour, Food and the Making of Space in Modern South Lebanon"	October 29, 2015
Peter and Layne Bogdanov (organized by S. Talhouk and M. Fabian)	Peter Bogdanov is an educator and author by training, through formal education and experience. Professionally, he has created his own company 'VermiCo' that primarily offers educational resources and products in the area of vermiculture, composting and waste management. Layne Bogdanov is a consultant of Marketing Earthworms and Vermicompost (With the support of the USAID funded Farmer- to- Farmer program (F2F) implemented by Land O'Lakes in Lebanon).	"Prospects of Commercializing Vermicast "	January 26, 2016 (FAFS-AUB)
Y. Abunnasr and N. Al-Akl	Assistant Professors of Landscape Architecture at LDEM	Presented research paper titled: "Towards a Comprehensive Assessment Manual for Design Studio Teaching: A Pilot Study from AUB Landscape Architecture and Architecture Undergraduate Programs," at the 6th International Conference on Effective Teaching and Learning in Higher Education.	February 12-13, 2016 (AUB)
Y. Abunnasr	Assistant Professor of Landscape Architecture at LDEM	Presented research: "Rethinking Green Infrastructure in Middle Eastern Landscapes," in Unfolding Middle Eastern Landscapes, IFLA-Beirut Conference.	May 31-June 2, 2016 (FAFS-AUB)
N. Al-Akl	Assistant Professor of Landscape Architecture at LDEM; Participated in the presidential inauguration symposium: defining moments at AUB.	Presented a short talk entitled "Campus Landscape: Extending Outwards."	January 25, 2016

N. Al-Akl	Assistant Professor of Landscape Architecture at LDEM; co-organized the IFLA Beirut 2016 Conference: “Unfolding Middle Eastern Landscapes: Changing Forms, Evolving Tools, Transforming Meanings” and served as master of ceremony and session coordinator.	Presented a lecture entitled “The Practice of Green Roofs in the Middle East: System or Trend?”	May 31-June
M. Madani	Assistant Professor of Landscape Architecture at LDEM	Gave a presentation for FAFS Brown Bag seminar series entitled: “Older Adults’ Ease of Access to Landscape Infrastructure.”	November 2, 2015 (FAFS-AUB)
M. G. Trovato	Assistant Professor of Landscape Architecture at LDEM	Presented research paper titled: “Landscape and Refugees Influx” at the 6th International Conference on Effective Teaching and Learning in Higher Education.	February 12-13,
M. G. Trovato	Assistant Professor of Landscape Architecture at LDEM	Presented research paper titled: “Landscape in emergency,” Dar El Jammal Neighbour, Sin El Fil Municipality, Lebanon, at the 4th Student Civic Engagement Conference under the theme “Refugees and Marginalized Communities in Lebanon and Egypt,” AUB, Center for Civic Engagement and Community Service (CCECS).	April 2016 (CCECS-AUB)
M. G. Trovato	Assistant Professor of Landscape Architecture at LDEM	Presented research paper titled: “Landscape Risk Assessment Model and Decision Support System for the Protection of Natural and Cultural Heritage in the Eastern Mediterranean Area,” at the 22nd International Scientific Conference.	April 2016 (Université Saint Esprit de Kaslik, USEK; Lebanon)
M. G. Trovato	Assistant Professor of Landscape Architecture at LDEM	Presented research paper titled: “Landscape and Social Justice” at the IFLA Beirut Conference: Unfolding Middle Eastern Landscapes.	May 31-June 2, 2016 (FAFS- AUB)



WORKSHOPS AND FORUMS

Name of presenter(s)	About the event	Title	Date and location
M. G. Trovato	Organized a two-day event aimed to disseminate the results of the two-year long ENPI- MEDSCAPES project 'Development of Landscape Character Assessment as a tool for effective conservation of natural heritage in the Eastern Mediterranean, between Lebanon, Cyprus, Jordan, and Greece', and to hold workshops to train stakeholders on the methodology developed during the project's duration of two years.	"Preservation of Cultural and Natural Heritage in the Eastern Mediterranean- Landscape Character Assessment, Risk Assessment Model, and Decision Support System"	November 19-20, 2015 (AUB)

FACULTY PARTICIPATION IN LOCAL AND INTERNATIONAL WORKSHOPS/CONFERENCES:

Name of presenter(s)	About the event	Title	Date and location
Y. Abunnasr	Cities for the 21st Century: Sustainable Cities in the MENA conference (Tunis)	"Potential Contribution of 'Alternative Open Space' to Sustainable Cities Region"	October 8-9, 2015
Y. Abunnasr	Eco-City Summit 2015, Session 15D–One Planet Solutions: Measuring for Impact. Also served as Session Moderator "Biomimicry in Architecture" (Abu Dhabi, UAE).	Gave a talk entitled "Measuring for Meaningful Data."	October 11-13, 2015
Y. Abunnasr and N. Al-Akl	Sixth International Conference on Effective Teaching and Learning in Higher Education (CTL, AUB)	Presented research paper titled: "Towards a Comprehensive Assessment Manual for Design Studio Teaching: A Pilot Study from AUB Landscape Architecture and Architecture Undergraduate Programs."	February 12-13, 2016
Y. Abunnasr	Attended the ICLEI–Local Governments for Sustainability, 8th European Conference on Sustainable Cities & Towns. "Transformative Action: The Potential for Europe," Basque Country, Bilbao, Spain).	Invited as Lebanese delegate and observer and to lead discussions in roundtables on applicability to Lebanon.	April 27-29, 2016
Y. Abunnasr	Attended the kick-off workshop meeting as partner in the Grant (Rome, Italy).	Developed skills in the field of integrated energy planning in Med Landscapes –ERAS-MUS+.	March 14-18, 2016
Y. Abunnasr	Nature and Culture: Heritage in Context Conference, 7th Annual Conference on Heritage Issues in Contemporary Society, organized by the Center for Heritage & Society (University of Massachusetts Amherst), Czech University of Life Sciences, Prague, Czech Republic	Presented research: "Authenticity Revisited: Do Urban Archaeological Sites Belong to the Contemporary City or time past?"	May 16-19, 2016

Y. Abunnasr	Participated in the research writing workshop for the development of a common project concept article (Boston, MA, USA).	Sustainable Adaptive Gradients in the Coastal Environment (SAGE), NSF funded project	June 21-22, 2016
Y. Abunnasr	Unfolding Middle Eastern Landscapes, IFLA-Beirut Conference (FAFS-AUB)	Session Moderator, "Landscape Ecology and Environment"	June 21-22, 2016
N. Al-Akl	Participated in the local workshop "Rethinking Zgharta: Strategies for an integrated future."	Invited to serve as facilitator, leading a team of professionals, academics and students in preparing and presenting an ecological development plan for the casa of Zgharta, Lebanon.	June 23-25, 2016
N. Farajalla	Participated in the world "Conference of the Parties" Twenty-first session (COP21) as part of the Lebanese delegation. Attended the world conference which was held in Paris and will continue to provide the Lebanese government with research papers, analyses, and recommendations post his observations of the conference proceedings. A historic agreement to combat climate change and unleash action and investment towards a low carbon, resilient and sustainable future was committed to by all 195 signatories to the UN Framework Convention on Climate Change (UNFCCC).	N. Farajalla is also Faculty Research Director of the Climate Change and Environment Program at IFI (Issam Fares Institute (IFI) for Public Policy and International Affairs.	November 30 – December 11, 2015
M. Madani	Attended the ICOMOS-IFLA ISCLL Annual Meeting/ International Symposium (Jeju, South Korea).	Presented a paper entitled "Older Adults' Ease Of Access To Landscape Infrastructure."	November 3-7, 2015
J. Makhzoumi	Invited Speaker at the Aegean University (Lesbos, Greece).	Gave a talk entitled "Landscape as an Enabling Framework for Community Inclusive Development" and "Urban Landscape Heritage and Local Community Empowerment."	September 7, 2015
J. Makhzoumi	Invited Speaker at the International Conference "Landscapes of the Eastern Mediterranean: Challenges, Prospects and Accomplishments," held at the German Jordanian University, Amman, Madaba, Jordan.	"Landscape as an Enabling Framework for Community Empowerment, Stewardship and Governance."	December 14, 2015
S. Talhouk	Attended and participated in the "Open and Collaborative Science in Development Network OCSdnet Bangkok Meeting," 2016, Bangkok, Thailand.	Gave a talk entitled "Open and Collaborative Science (OCS); a Tool for the Conservation and Development of Local Ecosystems."	February 16-20, 2016



M. G. Trovato	Invited Professor at the Aegean University Summer School (Lesbos, Greece).	Gave a talk entitled "Landscape Risk Model and Decision Support System as a Tool for Effective Conservation of Natural Heritage in the Eastern Mediterranean."	September 2015
M. G. Trovato	Participated in the International Conference on Landscapes of the Eastern Mediterranean: challenges, opportunities, prospects and accomplishments, Madaba, Jordan.	Presented research titled "Landscape Risk Assessment Method."	December 2015
M. G. Trovato	Invited Speaker at the Forest and Landscape Restoration Mechanism in Lebanon Workshop organized by FAO and Lebanese Ministry of Agriculture (Lebanon).	Gave a talk entitled "The role of Landscape Character Assessment on the Forest and Landscape Restoration Mechanism."	February 2016
M. G. Trovato	Attended the Stakeholder training workshop organized by Laona Foundation, and Open University of Cyprus. It is a training for the staff of the Town Planning Department of Cyprus and was invited to train them specifically on the RA and DSS methodology implemented and used by the MEDSCAPES ENPI project (Nicosia, Cyprus).	Workshop on Landscape Character Assessment, Risk Assessment model (RA) and related Decision Support System (DSS).	March 8-9, 2016
M. G. Trovato	Invited as a Key note Speaker at the International Research Seminar on Landscape Heritage organized by the University of Reggio Calabria, and the Orders of Architects/Landscapes/ Urban Planners (Reggio Calabria, Italy).	Presented a research paper entitled "Landscape and Refuges in Lebanon" under the theme of landscape design, related to education, research and design, in relation with critical condition of territories and cities: marginal, infrastructured, urban, periurban, and agricultural areas.	March 21-23, 2016
M. G. Trovato	Invited speaker, presented a research paper and gave a lecture in the HDYL (How Do You Landscape) lecture series (University of TU Delft (Delft University of Technology) at the Faculty of Architecture, Delft University, Netherlands.	Presented a paper titled "Mapping Migratory Phenomena, Landscape Democracy and Informal Settlements in Lebanon;" Gave a Lecture entitled "Landscape in Emergency."	April 17-20, 2016
M. G. Trovato	URB Short-term faculty development grant: attended the 53rd IFLA Congress and presented an abstract. This is one of the most important Landscape conferences organized every year by the International Federation of Landscape Architects (IFLA) in Torino, Italy.	Presented a paper entitled "Contaminated Landscape and Un-spoilt Landscape." This paper reports some of the results of M. G. Trovato's research grant on the Lebanese Landscape Atlas and allowed her to explore research opportunities with peers at the international level.	April 20-24, 2016

M. G. Trovato	Invited Speaker at the AIAPP Conference: Altri Paesaggi, altre storie. Storie di Paesaggi in divenire. Associazione Italiana Architettura del Paesaggio (Italy).	Presented a research paper entitled "New Geographies in the Mediterranean Landscape."	July 2016
R. Zurayk	London School of Economics (United Kingdom)	"And What if One Spoke of the Land? Labour, Food and the Making of Space in Modern South Lebanon."	September 29, 2015
R. Zurayk	Participated in this international meeting which was hosted by FAO, Rome, Italy.	The 12th Meeting of the Steering Committee of the High Level Panel of Experts on Food Security and Nutrition (HLPE).	November 2-4, 2015
R. Zurayk	URB short term faculty development grant: attended the AAG (Association of American Geographers) Annual Meeting 2016. The annual meeting brings together international researchers who are currently developing methodologies in this new field (San Francisco, California, USA).	Presented an abstract entitled "How Far Can We Go In Data-Poor, High-Security Environments? Studying The Political Ecology of Agrarian Change in South Lebanon," in the session entitled "Methods in Political Ecology". The abstract presents the outcomes of the three-year research project "Palimpsest of Agrarian Change" funded by the London School of Economics which R. Zurayk is PI and in which a novel, integrative methodology for studying the spatial and ecological projections of agrarian transformations was developed.	March 27 - April 1, 2016



INVOLVEMENT IN INTERDISCIPLINARY AND INTERFACULTY ACTIVITIES

Faculty members of the department were actively involved in university- wide centers, programs and activities.

- **Initiative for Green Roof Research Group:** The department (S. Talhouk) is leading an initiative to launch a research group that focuses on urban and sustainable greening and turn AUB as a showcase in this field. In addition to S. Talhouk, the committee consists of all LDEM full-time faculty members.
- **Initiative for AUB Botanic Garden:** The department (S. Talhouk) is leading a university- wide initiative to launch AUB Botanic Garden. The launching event occurred in May 2016 as part of AUB's 150th anniversary celebrations. In addition to S. Talhouk, the committee consists of 10 other members from different faculties and units at AUB as well as AUB friends.
- **Launching of AUB Botanic Garden:** The launching event was held on May 4, 2016 as part of AUB's 150th anniversary celebrations. The Planning Committee consisted of the founding Chair of AUB Botanic S. Talhouk, Y. Abunnasr and M. Fabian from LDEM and T. Amin (Director of SMEC). President Fadlo Khuri declared the AUB grounds as a permanent botanic garden. The event was located in West Hall and included an exhibition of AUB plants, botanic drawings and photographs (by faculty and students), illumination of historic trees around campus and a night-time guided historical trees tour. Speakers included J. Makhzoumi, N. Al-Akl and the Director of the Centre for Middle Eastern Plants (CMEP) at the Royal Botanic Garden in Edinburgh, Dr. Tony Miller. His speech focused on how botanic gardens serve man and nature and added that the innovation in AUB's decision to convert its campus to a botanic garden, is particularly important and appropriate in the center of a bustling capital. Dr. Miller had worked on similar projects in the Gulf States and Kabul.
- **Baldati Bi'ati Green Maps Exhibition (NCC- S. Talhouk):** In partnership with the Ministry of Tourism, the AUB-Nature Conservation Center organized the exhibition on October 16, 2015 and an Award Ceremony on October 17, 2015 at AUB West Hall. The event featured 70 Lebanese village green maps. These maps were developed through a local participatory process with the collaboration of AUB NCC. The maps pinpoint landmarks of interest related to the natural and cultural heritage of participating villages. They show you where to hike and camp, where to purchase local traditional foods and pick your own agricultural produce, where to conserve nature, and where to enjoy the outdoors. This project was initiated in 2011 and its main objectives are to promote rural tourism, support local conservation initiatives, and contribute to the growth and development of local economies.
- **Implementation of the School Guide for Extra-Curricular Nature-Related Activities (NCC- S. Talhouk):** A ceremony was held at the UNESCO Palace to showcase the accomplishments of 21 public schools that engaged in nature-related extracurricular activities based on the school guide prepared by AUB. A total of 472 students and 54 teachers from all participating schools attended and received a 32-page booklet documenting the efforts made by the students and their schools throughout the year.
- **SAFE Workshop for Students:** M. Madani conducted a Safety-Attractiveness, Friendliness and Efficiency (SAFE) assessment workshop for final year landscape architecture students in October 2015. SAFE is a tool for assessing the quality of built environment.
- **'Rethinking Zgharta: Strategies for an Integrated Future' workshop:** N. Al-Akl participated in a 3-day public workshop in June 2016 where she served as facilitator leading a group of experts and students to investigate, analyze and create strategies focusing on the theme of Landscape Ecology and

Resource Efficiency in Zgharta. The workshop brought together participants from different fields (architects, landscape architects, engineers, planners, economists, geographers, agricultural engineers, food scientists, etc.) and universities (including AUB, LAU, Lebanese University) as well as entities from both the public and private sector.

DEPARTMENT OUTREACH ACTIVITIES AND COMMUNITY INVOLVEMENT

- **Gardening Allotment for faculty members:** The landscape architecture students (in the LDEM 262 course supervised by S. Talhouk and M. Fabian) offered the opportunity to AUB community to produce their own vegetables within the campus, in specified allotments prepared for them in the greenhouse area, during Spring 2015-2016.
- **Annual Plant Sale:** S. Talhouk, M. Fabian and LDEM I students organized, as part of an experiential learning experience on plants and people, the department's annual plant sale in front of AUB's West Hall on April 22, 2016. The sales generated were deposited in the department's revolving fund to sustain experiential learning activities.
- **IBDAA:** A group of LDEM I students (under the supervision of LDEM faculty members M. Madani and H. Chmaitelly) won the first prize competition (2000 USD) at the IBDAA event organized yearly by the Nature Conservation Center (NCC) under the Arts and Humanities category. The event took place on April 19, 2016. LDEM students have won first prize under this category for the third year in a row. The event offers students the opportunity to participate in an academic poster forum and have their work evaluated by field experts. This year, the NCC commemorated its decade of celebrating biological diversity by selecting the theme "Imagine, Create, Act: Protecting Nature's Journey."
- **Garden Show 2016:** LDEM students designed and implemented the department's stand at the Beirut Garden Show Spring Festival 2016, under the supervision and coordination of N. Al-Akl with the assistance of M. Fabian. The participation looked at raising awareness on vermicomposting and promoting the greenhouse efforts and outreach to the larger community. This yearly event was held during May 24-28, 2016 at the Beirut Hippodrome.
- **Gala Dinner:** FAFS hosted a gala dinner at Phoenicia Hotel celebrating AUB's 150th anniversary and the great success of the first IFLA Beirut 2016 conference "Unfolding Middle Eastern Landscape" which was jointly organized by LELA (Lebanese Landscape Association), the Lebanese University and LDEM. Attendees included representatives from the Ministry of Agriculture (MOA), the Lebanese University Dean of Agriculture, IFLA representatives and keynote speakers, the Lebanese Landscape Association (LELA) representatives, IFLA conference sponsors, AUB administration, FAFS Alumni Chapter, and FAFS community. Attendees also included members of the FAFS External Advisory Board including his Excellency Nabil De Freij, Mr. Raphael Debbane and Mr. Khalil Melki.
- **School Visits to the Department:** As part of departmental outreach activities, a campus tree tour was organized by M. Fabian (greenhouse supervisor) for around 180 school students from the International College (IC) in addition to accompanying administration staff.
- **Department Visit to Schools:** N. Al-Akl represented the department at the IC career guidance day and gave a talk introducing the field of landscape architecture and the program/department to graduating students.
- **Young School Students Workshop:** M. Fabian gave a workshop at IC and ACS schools to young students in April 2016 on vermicomposting and the importance of recycling.



- **University for Seniors:** M. Madani is currently working with the University for Senior staff and outside professionals through a team of passionate locals (named Pedestrian Safety Advocates) to improve the pedestrian safety condition of Ras Beirut neighborhood.
- **Memorandum of Understanding (MOU) between AUB and Sin El Fil Municipality:** In March 2016, an MOU was drafted between AUB and Sin El Fil municipality with the common understanding and broad objective of promoting a mutually beneficial collaboration between the Parties whereas both the municipality and AUB wish to establish a framework of collaboration in matters of mutual interest related to urban landscape and implementation of public spaces. The MOU was sent to Sin El Fil, pending their signature. This initiative is lead by M.G. Trovato.
- **3D Printer Workshop:** M. Madani conducted a one- day workshop for several LDEM students interested in how to use a 3D printer (which was previously acquired by LDEM as capital budget equipment) available at the department and how they can use it for their design projects (Fall 2015-2016).
- **4th Student Civic Engagement Conference and Workshop Under the Theme “Refugees and Marginalized Communities in Lebanon and Egypt,” AUB, Center for Civic Engagement and Community Service (CCECS):** In April 2016, Third year landscape students from the course LDEM228 participated actively in the 4th Student Civic Engagement Conference and Workshop under the theme “Refugees and Marginalized Communities in Lebanon and Egypt”. The students, lead by Professor Maria Gabriella Trovato and by Instructor Balsam Ariss, presented the work they were conducting in the deprived neighborhood of Dahr Ej Jammal, Sin El Fil Municipality. With the aim to provide Sin El Fil municipality with projects for four focus intervention areas and with a strategy to enhance the public space provision of this neglected neighborhood, students worked jointly with Dahr Ej Jammal community using the participatory process.

SPACE AND FACILITIES

- **Capital Budget Renovations:** In July 2016, the department request to the Dean’s office to reallocate the previously approved capital budget for the rehabilitation of part of the greenhouse to the education fund of LDEM was approved. The reason for this request was that the bid prices received for these works exceeded the allocated budget by LDEM. The reallocation to the educational fund will meet two primary objectives. First, the rehabilitation of part of the greenhouse area as per original scope of work, and second, the provision of a hands-on educational experience for the students directly connected to their course work. The end date of the project was extended by the controller’s office to end of June 2018.
- **Capital Budget Equipment:** The department received approval for ASHA funding in July 2015 to purchase a new soil steamer system for the greenhouse area in the amount of 23000 USD. The item was selected from offered bids and purchase processed in October 2015. The item was delivered from the US in March 2016 and was installed in July 2016 after the needed area preparation works were completed by the Physical Plant Department.



- **LDEM Decanting to Reynold's Hall:** In November 2015, the LDEM Department submitted to the Dean detailed budget and technical reports to request funding for the decanting of LDEM to Reynolds Hall. Reports were prepared by Y. Abunnasr. The department completed the move of all its faculty and staff in January 2016 lead by Y. Abunnasr. Students' move to Reynolds was completed upon completion of studios renovations and preparations at Reynolds Hall at the beginning of Fall 2016-2017. Currently, students of each year have their own studio compared to the previous situation where each of year I and II shared one studio at FAFS (Wing A) and year III and IV shared another studio. This new space will allow LDEM to meet an important accreditation requirement.
- **LDEM Plotter:** LDEM brought down the plotter from AREC to Reynolds Hall and will be made available for students' use after a formula is finalized with the help of FAFS financial officer and the students regarding the method of payment by the students to sustain replenishing the paper and ink supply of the plotter.

STUDENT ACTIVITIES

The below activities were organized by the Landscape Student Society (advisor N. Al-Akl):

- **Students Welcoming Event:** The Landscape Student Society students put together a welcoming event for the new first year students to the major and the department. The event was held on September 29, 2015 and included a series of short presentations introducing the department, Landscape Architecture at AUB, and a book that the current students wrote which contains all what new students need to know about Landscape Architecture including important resources that will help students with their life in AUB, internships, latest architects and projects, and even preparation for life after graduation. The event also promoted the society work which led to the recruitment of new members for this year's society.
- **Presentations and Workshops:** Organized by the Landscape Student Society to advance knowledge in professional practice and portfolio building to all LDEM students.
- **Student Community & Visibility Events:** Participation in community events such as Dahlieh Preservation, Zico-House Gathering, Movie Night, AUB Bake Sales, etc.

FACULTY AND STAFF RECOGNITION

- **Teaching Excellence Award:** Y. Abunnasr and N. Al-Akl were both nominated for this year's AUB's Teaching Excellence Award. Results were announced in May 2016.

PERSONNEL

The LDEM Department has seven full time faculty members, one Associate, one instructor, and 19 part-time faculty members (total FTE: 12.44 based on Fall semester data). In addition, there are 11 research assistants; 9 of the RAs were appointed on grants. 6 graduate assistants were appointed for the academic year 2015-2016. The department had one support staff and an additional one effective August 25, 2016. The below tables detail the personnel in the Landscape Design and Ecosystem Management Department.

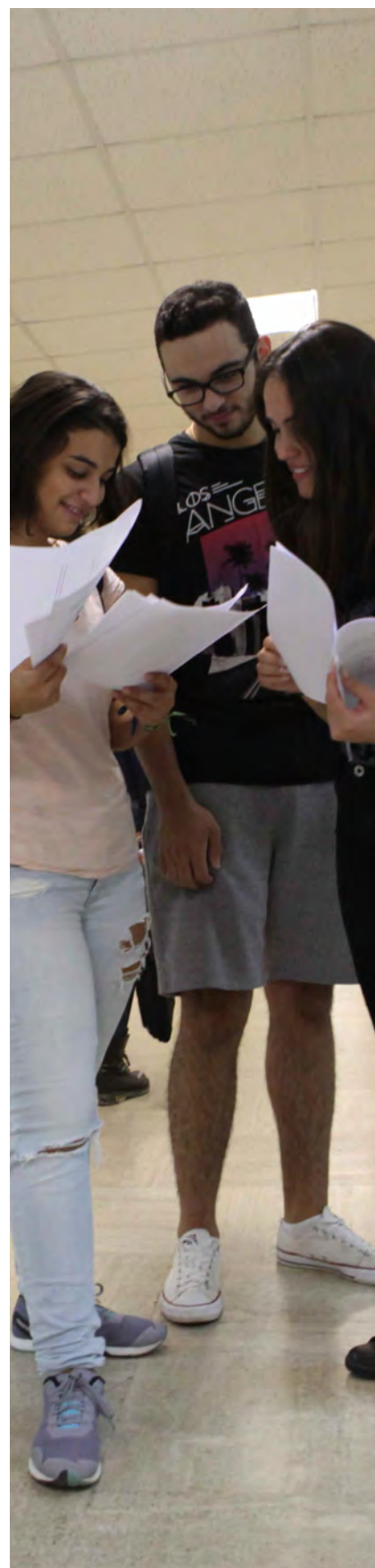


Full- Time Faculty

Rami Zurayk	Professor and Chairperson (January 2014-present)
Yaser Abunnasr	Assistant Professor
Nayla Al-Akl	Assistant Professor
Beata Dreksler	Visiting Assistant Professor (effective August 15, 2016)
Monika Fabian	Instructor/Greenhouse supervisor
Nadim Farajalla	Associate Professor; Faculty Research Director of Climate Change and Environment in the Arab World (IFI)
Mehran Madani	Assistant Professor
Jala Makhzoumi	Associate to the Faculty (July 1, 2012 – present)
Salma N. Talhouk	Professor
Maria Gabriella Trovato	Assistant Professor

Part Time Faculty

Rania Abboud Melhem	Lecturer (Fall 2015-2016)
Hana Alamuddin	Lecturer (Fall 2015-2016)
Balsam Al-Ariss	Lecturer (Spring 2015-2016)
Joelle Baroud	Lecturer (Fall 2015-2016)
George Battikha	Senior Lecturer (Fall and Spring 2015-2016)
Hala Chmaitelly	Lecturer (Fall and Spring 2015-2016)
Yasmina Choueiri	Lecturer (Fall and Spring 2015-2016)
Alicia Denris	Lecturer (Fall and Spring 2015-2016)
Bachar El-Amine	Lecturer (Fall 2015-2016)
Mohamad El-Zein	Lecturer (Fall 2015-2016)
Imad Gemayel	Lecturer (Fall and Spring 2015-2016)
Sara Hage	Lecturer (Fall 2015-2016)
Nahida Khalil	Lecturer (Fall 2015-2016)
Mona Khechen	Senior Lecturer (Spring 2015-2016)
Wissam Melhem	Lecturer (Fall, Spring and Summer 2015-2016)
Ramzi Mezher	Lecturer (Fall and Spring 2015-2016)
Halim Nader	Lecturer (Spring 2015-2016)
Roland Riachi	Senior Lecturer (Fall 2015-2016)
Gregoire Serof	Senior Lecturer (Spring 2015-2016)



Research Assistants

Departmental

Elias Abdel Sater	Research assistant (April 1, 2014 – present)
Nadine Modad	Senior Research Assistant (2007 – July 25, 2016)

On grants

Dana Ali	Full-time Research Assistant (on grant; M. G. Trovato; March 15, 2016 to June 15, 2016)
Mahmoud Bou Kanaan	Part-time Research Assistant (on grant; M. G. Trovato; July 15, 2015 to December 30, 2015)
Rouba Dagher	Full-time Research Assistant (on grant; Y. Abunnasr; September 15, 2015 to May 31, 2016)
Yasmine Esteitie	Full-time Research Assistant (on grant; M. G. Trovato; August 1, 2015 until December 30, 2015)
Hana Itani	Part-time Research Assistant (on grant; M.G. Trovato; August 1, 2015 to December 30, 2015 and Full-time Research Assistant; March 15, 2016 to June 15, 2016)
Jessika Nicolas	Full-time Research Assistant (on grant; M. G. Trovato; July 1, 2015 to December 30, 2015)
Rita Abdel Massih	Full-time Research Assistant (on grant; S. Talhouk; December 2015 to June 2016)
Farah Malas	Full-time Research Assistant (on grant; S. Talhouk; December 2015 to June 2016)
Petra Samaha	Part-time Research Assistant (on grant; Y. Abunnasr; March 15, 2016 to July 31, 2016)

Graduate Assistants

Alia Al Dirani	Ecosystem Management
Roberto Bejani	Ecosystem Management
Karim Shaar	Ecosystem Management
Laura Sisco	Ecosystem Management
William Thomson	Ecosystem Management
Mira Yehya	PLPT

Support Staff

Elias Abi Samra	Greenhouse Technician
Nadine Modad	Administrative Officer (August 25, 2016 – present)



TEACHING

Courses Offered

During the academic year 2015-2016, the department offered 14 undergraduate courses and 1 graduate course during Fall 2015-2016; 14 undergraduate courses and 2 graduate courses during Spring 2015-2016, and 4 undergraduate courses and one internship course during Summer 2015-2016.

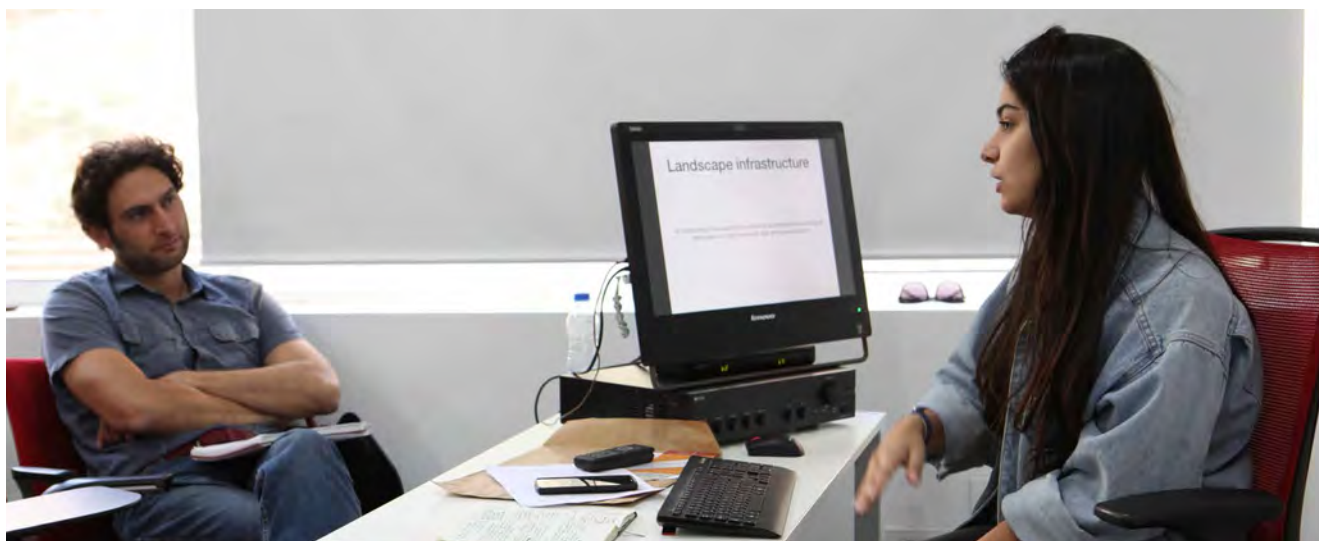
Student Enrollment in Courses

Fall 2015-2016-Undergraduate

Course	Credits	Enrollment	Instructor(s)
LDEM 200	4	27	W. Melhem (P) ^P /J. Baroud ^P
LDEM 202	4	25	Y. Abunnasr (P)/ S. Hage ^P /R. Mezher ^P
LDEM 207	3	28	B. El-Amine ^P
LDEM 208	3	35	G. Battikha ^P
LDEM 210	3	28	S. Talhouk/M. Fabian
LDEM 218	3	20	M. Al Zein ^P
LDEM 219	1	28	M. Fabian
LDEM 222	4	21	H. Chmaitelly ^P /A. Denris Younis ^P
LDEM 241	4	28	Y. Abunnasr (P)/M. Madani /H. Alameddin ^P
LDEM 246	6	25	W. Melhem (P) ^P /N. Khalil P/Y. Choueiri ^P
LDEM 247	3	29	N. Farajalla
LDEM 251	3	22	Rania Abboud Melhem ^P
LDEM 260	3	25	M. Madani
LDEM 262	3	15	S. Talhouk/M. Fabian

Fall 2015-2016 -Graduate

Course	Credits	Enrollment	Instructor
LDEM/ENSC	635	3	5
			R. Riachi ^P



Spring 2015-2016–Undergraduate

Course	Credits	Enrollment	Instructor(s)
LDEM 201	4	21	R. Mezher(P) ^P /G. Serof ^P
LDEM 204	6	23	N. Al-Akl (P)/A. Denris P /M. Khechen ^P
LDEM 211	3	22	S.Talhok
LDEM 216	4	24	M. Madani (P)/H. Chmaitelly ^P
LDEM 217	3	23	R. Zurayk
LDEM 220	1	25	M. Fabian
LDEM 228	6	21	M. Trovato (P)/B. Al-Ariss ^P
LDEM 230	3	82	N. Farajalla
LDEM 242	6	28	Y. Abunnasr (P)/M. Madani/I. Gemayel ^P
LDEM 248	3	26	W. Melhem ^P /Y. Choueiri
LDEM 263	3	19	M. G. Trovato
LDEM 264	3	14	G. Battikha ^P
LDEM 290	3	21	N. Al-Akl
LDEM 291	3	20	H. Nader (P) ^P /W. Melhem ^P
LDEM 301	3	8	S. Talhouk
LDEM 630	3	6	R. Zurayk

Spring 2015-2016–Graduate

Course	Credits	Enrollment	Instructor(s)
LDEM 301	3	8	S. Talhouk
LDEM 630	3	6	R. Zurayk

Summer 2015-2016–Undergraduate

Course	Credits	Enrollment	Instructor(s)
LDEM 221	1	22	M. Fabian
LDEM 231	3	22	N. Farajalla
LDEM 249	4	21	W. Melhem ^P
LDEM 252	3	21	W. Melhem ^P
LDEM 292	2	19	N. Al-Akl

P Part-time faculty
(P) Principal instructor



Completed Theses and Thesis Advising

Eight students were enrolled in the ECOM program for the academic year 2015-2016. In addition to serving as advisors and/or committee members to ECOM students, LDEM Faculty members are also serving as advisors or committee members to other AUB or non-AUB Masters and PhD students as follows: **R. Zurayk** also served as committee member to two Environmental Technology Master's students, one Urban Planning Master's student and to five PhD students in Environmental engineering at AUB, two of which have completed their defense, one in December 2015 and one in August 2016. **N. Al-Akl** served as committee member to one Urban Design Masters student at AUB who graduated in 2016. She also served as external advisor to one Master's of Landscape Architecture student at the University of Toronto, Canada who graduated in 2015. **Y. Abunnasr** served as thesis advisor to one Urban Design Master's student at AUB who graduated in 2015-2016. He is also committee member to two AUB students (from PSPA and Agriculture), co-advisor to one PhD student from the University of Addis Ababa Ethiopia and committee member for another PhD student from the University of Massachusetts Amherst, USA. **M. G. Trovato** served as committee member to three Urban Design Masters students at AUB. **S. Talhouk** served as co-advisor to one PhD student in Bangor University, Wales (UK) and **M. G. Trovato** served as co-advisor to one PhD student at the Mediterranean University of Reggio Calabria, Italy. **N. Farajalla** served as committee member to one Plant Protection Master's student at AUB and as the local advisor for one Political Science Master's student from the University of Pavia, Italy.

Completed theses

	MSc student	Thesis or Project Title	Advisor/Co-advisor	Date of Thesis Defense
1	Laura Sisco (ECOM)	Thesis: "Roof Top Garden to Conserve Energy and Use Condensate From Air Conditioners productively"	N. Farajalla	December 14, 2015
2	Karim Shaar (ECOM)	Thesis: "Urban Green Infrastructure Opportunities: Spatial Suitability Analysis and Municipal Guidelines in Beirut"	Y. Abunnasr	April 22, 2016
3	Aliaa Al-Dirani (ECOM)	Project: "Exploring the Determinants of an Agricultural Anomaly: the Case of the Damask Rose (Rosa damascena) value chain in Qasarnaba, Lebanon"	A. Chalak	April 25, 2016
4	Roger Neaimeh (Urban Design)	Thesis: "An integrated Ecological and Place-based Landscape Approach to Rethinking Zoning in Jezzine, Lebanon"	Y. Abunnasr	Spring 2015-2016
5	William Thomson (ECOM)	Thesis: "Agriculture as a Tool of Settlement: A Political Ecology and Economy Analysis of Israeli Agricultural Development"	R. Zurayk	September 6, 2016

Theses In progress

	MSc student	Thesis or Project Title	Advisor/Co-advisor	Date of Thesis Defense
1	Elias Karaan	Thesis	N. Al-Akl	Fall 2016-2017
2	Roberto Bejani	Thesis	N. Farajalla	Spring 2015-2016
3	Rima Maalouf	Project	A. Chalak	Spring 2015-2016
4	Ranim Koleilat	Thesis	S. Talhouk/ M. Madani	Spring 2016-2017

RESEARCH FUNDING

Research Retreat

The department's current and future topics of interest to be used as a basis for graduate program development and research collaboration among the faculty are listed below:

Special Landscapes:	Themes and Disciplines:
<ul style="list-style-type: none"> - The Landscape In Between - Brown-fields - Degraded and Devastated Lands - Productive Landscapes (aesthetic and recreational landscapes) - Waterfront (water related landscapes) - Demarcating Lines: Landscapes of Contestation 	<ul style="list-style-type: none"> - Urban and Peri-urban - Landscape and Tourism -Landscape Archaeology (design and protection of archaeological sites) - Cultural Heritage - Political Ecology (power politics and landscapes) - Urban Ecology and Greening - Landscape Urbanism - Nature and Biodiversity Conservation
Infrastructure, Planning and Policy:	Frameworks, Methods and Approaches:
<ul style="list-style-type: none"> - Governance of Territory - Post-War Landscape Architecture - Climate Change and Landscape Mitigation (technology and sustainability) - Landscape Planning at Different Scales - Green Infrastructure (land-use, land change and greenhouse emissions) - Infrastructure (private and public landscapes) - Monitoring the Landscape and Landscape Changes 	<ul style="list-style-type: none"> - Site Remediation - Landscape and Green Technology (components and materials) - Building Resilience Landscapes - Human-Landscape Interaction and Awareness - Community-Based Approach to Landscapes - Water, Food Security, and Climate Change

LOCAL, REGIONAL AND INTERNATIONAL GRANTS

Faculty members launched new research and development projects supported by external and internal funding as follows:

- Total number of grants: fourteen grants (nine from international funding and five from AUB)
- Total grant amount: 876,323.067 USD (international grants); 39,900USD (AUB funding)

Total number of grants: Fourteen grants (9 from international funding and 5 from AUB) as per table below:

Title	Funded by	Year	PI	USD
The Palimpsest of Agrarian Change	London School of Economic (LSE)	2012-2015	R. Zurayk	\$115,234.52
Development of Landscape Character Assessment as a Tool for Effective Conservation of Natural Heritage in the Eastern Mediterranean	ENPI CBCMED Project (European Neighborhood and Partnership Instrument)	2013-2015	M. G. Trovato (PI); (Co-PI: Y. Abun-nasr)	\$209,286.82
Landscape Atlas; year 3	AUB Funds (URB)	2014-2015	M. G. Trovato (PI) (Co PI: S. Talhouk)	\$9,600 (FAFS)
Integrating Water Management Scenarios Into Urban Landscape Planning Under Conditions of Uncertainty—the Case of Hamra Neighborhood, Beirut	AUB Funds (URB)	July 2014– June 2015	Y. Abunnasr	\$8,500 (FAFS)



Developing a Comprehensive Rubric for Design Studio Teaching Assessment in the Fields of Landscape Architecture and Architecture in Beirut	American University of Beirut Research Funds, Center for Teaching and Learning (CTL)	2015-2016	Y. Abunnasr (PI); (Co-PI: N. Al-Akl)	\$6,800 (FAFS)
Developing skills in the Field of Integrated Energy Planning in Med Landscapes	ERASMUS+	2015-2018	Abunnasr, Y. (PI), Nadim Farajalla (Co-PI), and Rabiha Jabr (Co-PI)	€ 80,850
2015 Biodiversity Village Awards in Lebanon	COCA COLA Foundation	2014-2016	S. Talhouk	\$150,000 (NCC)
Extra-Curricular Environmental Programs at 24 Schools Across Lebanon	COCA COLA Foundation	Nov. 2014- Dec. 2015	S. Talhouk	\$65,860.23 (NCC)
Developing a Chemical System for Screening and Fingerprinting closely-related plant species	National Council for Scientific Research (CNRS)	2013- 2016	S. Talhouk	\$18,567.64 (NCC)
Fall Festival	Development Alternatives Inc.	2015-2016	S. Talhouk	\$30,552 (FAFS)
Catalysing Open and Collaborative Science to Address Global Development Challenges (OCSdnet)	iHUB LIMITED	2015-2017	Dr. Najat A. Saliba (PI), Dr. Salma Talhouk (Co-PI)	\$60,188.14 (FAS)
Improving the Nutrition of Syrian Refugees and Host Communities through Garden Walls	Food & Agricultural Organization of the UN (FAO)	2015-2016	Dr. Salma Talhouk (PI), Dr. Rami Zurayk (Co-PI)	\$42,024 (FAFS)
Pedestrian Safety and Struggles Over Older Adult's Accessibility: Case of Beirut Landscape Infrastructure	URB	July 2016 - June 2017	Dr. Mehran Madani (PI); Y. Abunnasr (co-PI)	\$10,000 (FAFS)
Forest and Landscape Restoration Mechanism in Lebanon	FAO	June 2016- July 2017	Dr. Maria G. Trovato (PI), Dr. Rami Zurayk (Co-PI)	\$40,000 (FAFS)

PUBLICATIONS

In line with the department's mission, the research agenda and the broad research themes listed below, a total number of four articles in international refereed journals were published by the LDEM faculty members:

- Relationship between rural landscapes and livelihood
- Landscape planning approach to nature and rural heritage conservation
- Conservation and sustainable use of native flora
- Relationship between landscape design, education and human behavior
- Water conservation, climate change and their impact on urban and rural landscapes

A total number of eight articles in international refereed journals were published by the LDEM faculty members.

International Refereed Journals (*Corresponding/Senior author)

- Marouf, M, M. Batal, S. Moledor, and **S. N. Talhouk***. 2015. Exploring prospects of the traditional practice of wild plant collection in Lebanon. *Food, Culture and Society*. 18:3:355-378 (<http://dx.doi.org/10.1080/15528014.2015.1043103>)
- Gharios, C., El. Nour, S., Mundy, M., **Zurayk, R***. 2016. Transformation rurale, paysage et conflit dans un village du Liban Sud, Sinay. *Economie Rurale* 353-354/Mai-juillet 2016. Accepted for publication.
- Habib, R., Mikati, D., Hojeij, S., El Asmar, K., Chaaya, M., and **Zurayk, R.** Associations between poor living conditions and multi-morbidity among Syrian migrant agricultural workers in Lebanon. *European Journal of Public Health*. Accepted for Publication on June 1, 2016.

Articles or Chapters in Books

- **Y. Abunnasr** submitted proposal for a new book to Routledge Publishing House with two co-authors from the USA. "A Reader in Planning and Green Infrastructure for Climate Change," by Elisabeth Hamin, Yaser Abunnasr, and Robert L. Ryan.
- **R. Zurayk**, 2016, "The Arab Uprisings through an Agrarian Lens," in Kadri. A. (Ed.) *Development Challenges and Solutions after the Arab Spring* (pp. 139-152). Hampshire, England: Palgrave Macmillan.
- **M. G. Trovato**, 2016, "Gentrification versus territorialisation. The Periurban agriculture area in Beirut," in *Balanced Urban Development: Options and Strategies for Liveable Cities*, Basant Maheshwari, Vijay P. Singh and Bhadrane Thoradeniya (Editors), Springer (ISBN 978-3-319-28110-0).

Abstracts and Conference Proceedings (Corresponding/Senior author *)

- **Abunnasr, Y*, Al-Akl, N.,** and R. Dagher. (2016). "Towards a Comprehensive Assessment Manual for Design Studio Teaching: A Pilot Study from AUB Landscape Architecture and Architecture Undergraduate Programs," American University of Beirut.
- **Abunnasr, Y.** (2016) "Rethinking Green Infrastructure in Middle Eastern Landscapes," in *Unfolding Middle Eastern Landscapes*, IFLA-Beirut Conference, Abstracts, American University of Beirut, May 31-June 2, 2016, Beirut, Lebanon.
- Dagher, R. and **Abunnasr, Y.** (2016) "A Spatial Urban Agriculture Strategy to Improve Livelihoods in Disadvantaged Neighborhoods; the Case of Nabaa, Beirut," in *Unfolding Middle Eastern Landscapes*, IFLA-Beirut Conference, Abstracts, American University of Beirut, May 31-June 2, 2016, Beirut, Lebanon.
- Neaimeh, R. and **Abunnasr, Y.** (2016) "An Integrated Ecological and Place-based Landscape Approach to Zoning in Mountain Towns in Lebanon," in *Unfolding Middle Eastern Landscapes*, IFLA-Beirut Conference, Abstracts, American University of Beirut, May 31-June 2, 2016, Beirut, Lebanon.



- Shaar, K. and **Abunnasr, Y.** (2016) "Retrofitting the Urban Landscape: Incorporating Suitable Green Infrastructure Typologies and Related Policies in Dense Neighborhoods in Municipal Beirut," in *Unfolding Middle Eastern Landscapes*, IFLA-Beirut Conference, Abstracts, American University of Beirut, May 31-June 2, 2016, Beirut, Lebanon.
- **Abunnasr, Y.**, 2016: "Authenticity Revisited: Do Urban Archaeological Sites Belong to the Contemporary City or Time Past?" in *Nature and Culture: Heritage in Context Conference*, 7th Annual Conference on Heritage Issues in Contemporary Society, Abstracts. May 16-19, 2016, organized by the Center for Heritage & Society (University of Massachusetts Amherst), Czech University of Life Sciences, Prague, Czech Republic.
- **Madani, M.** (2015) "Older Adults' Ease of Access to Landscape Infrastructure," in the "ICOMOS-IFLA ISCCL 2015" International Symposium, Nov 3-7, 2015, Jeju, South Korea.
- **Trovato, M.G.**, 2016: "Contaminated Landscape And Unspoilt Landscape," in "Tasting the Landscape," Conference proceedings 53rd IFLA World Congress, Edifir Edizioni Firenze, ISSN 978-88-7970-781-7.
- **Trovato, M.G. *, Abunnasr, Y.**, 2015: "East Mediterranean Landscape Observatory," in UNISCAPE En-Route International Seminar "Landscape Observatories in Europe II," ISSN 2281-3195.
- **Trovato, M.G.**, 2015: "Landscape in Emergency," in Conference proceeding "Defining Landscape Democracy," CLAD, Center for Landscape Democracy, Oslo, 2015.

Other publications

- **Trovato, M.G.**, 2016: "Landscape and displacement condition," in *NIP Network in Progress n.2*, 2016, "CMYK. Farewell to the press "title" Magenta. A landscape literature". ISSN 2281-1176.

Technical reports

- **Abunnasr, Y.**, 2015. Detailed budget and technical reports to request funding for the decanting of LDEM to Reynolds Hall, submitted to the Dean in November 2015.

SERVICES

Yaser Abunnasr

AUB

- Member, Regional External Programs (REP) Steering Committee, faculty (college) representative (2016- present)
- Member, Academic Campus Master Planning 2030 Steering Committee, faculty (college) representative (2016- present)
- Assistant Marshal, undergraduate graduation ceremonies, academic year 2015-2016
- Member, Advisory Committee to the Center for Teaching and Learning, faculty (college) representative (2015- present)
- Member, AUBotanic Planning Committee (2015- present)
- Member, AUBotanic University- Wide Steering Committee (2014-present)
- Elected Member, University Student Faculty Committee (USFC, joint faculty-student governance body), faculty (college) representative (2013-2016)
- Leader, Task: Decanting of the Department of Landscape Design and Ecosystem Management to temporary facilities for facilities expansion (decanting period of two to four years), planned, designed temporary facilities, and supervised move (2015-2016)

- Elected Chair FAFS Library Committee (2015-present)
- Elected Member, FAFS Undergraduate Admissions Committee (2015-present)
- Elected Member, FAFS Undergraduate Curriculum Committee (2013-2015)
- Elected Member, FAFS Student Affairs Committee (2013-2015)
- Chair, LDEM Promotion Criteria Development Committee (for design faculty) (2015-2016)
- Member, LDEM Faculty Search Committee, position in Site Engineering (2015-2016)
- Founding member–Green Roof Research Group at LDEM
- Founding member–Invented Landscapes- A research group dedicated to conceptualizing alternatives to urban landscape on slopes adjacent to major urban conglomeration – joint collaboration between the Department of Landscape Design and Ecosystem Management and Department of Architecture and Design–Web link: <http://inventedlandscapes.wordpress.com/>
- Associate to the Sustainable Adaptive Gradients in the Coastal Environment (SAGE): Conceptualizing the Role of Coastal Infrastructure in Resilience
- The ECOMENA Project–Integrated Resilient and Sustainable models for small scale development across the Middle East and North Africa; ongoing first application on a site within the American University campus, Beirut.

Others

- Peer reviewer, double blind, for the Journal of Landscape and Urban Planning, impact factor for 2013 is 2.314 (five year 3.137) and for the Landscape Journal
- Jury Member, Studio: “Me House,” second year architecture design studio, School of Architecture, Lebanese American University (2016)
- Jury Member, Darwazah Student Innovation Contest 2015 & 2016 (Darwazah Center for Innovation Management and Entrepreneurship, Olayan School of Business, American University of Beirut) (2015-2016)
- “An Ecological and Place- Based approach to rethinking cultural landscapes in planning” movie Interview with US/ICOMOS on research work completed with graduate students, Roger Neaimeh (2016)

Nayla Al-Akl

AUB

- Member, University Task Force on Lives and Careers of Women Faculty at AUB- AUB
- Member, AUB Strategic Planning Committee-AUB
- Member, AUBotanic University Committee-AUB
- Member, Green Roof Research Group -LDEM
- Chair, Faculty Student Committee-LDEM
- Academic Advisor to the Landscape Student Society-LDEM
- Student Internship coordinator-LDEM
- In charge of LDEM student orientation-LDEM
- Member, Committee on Faculty Promotion Criteria - LDEM
- Member, Program Review Committee
- Member, MLA graduate Program Committee (short-term member to assist in specific tasks) – LDEM
- Design, supervision and coordination: FAFS teaching facilities (Wing A classrooms 205, 211, Nutrition Lab) as well as FAFS Dean’s office expansion and restructuring-FAFS

Others

- Co-founding member of the Lebanese Landscape Association (LELA), NGO
- Member of the Administrative Committee, Accountant–LELA, NGO



Monika Fabian

AUB

- Member of the University for Seniors program (Spring 2012-Present)
- Coordinating school students visits to the greenhouse area and offer miscellaneous horticultural activities
- Member of the Initiative for AUB as Botanic Garden
- Member of the Greenroof research group
- Advising landscape architecture and architecture students on plants and trees used in their projects

Nadim Farajalla

AUB

- Faculty Director of the Research and Policy Forum on Climate Change and Environment in the Arab World at the Issam Fares Institute for Public Policy and International Affairs (IFI), American University of Beirut.
- Member of the University Senate
- Member of the Senate Committee on Faculty Affairs
- Member of the FAFS Admissions Committee
- Liason officer between FAFS and the FAFS Alumni Chapter (2011 to date)
- Chair of the LDEM Program Review Committee

Others

- Reviewer of UNDP's Arab Water Report

Mehran Madani

AUB

- Member of FAFS Graduate Studies Committee
- Member of FAFS Student Affairs Committee
- Member of the FAFS Research Committee

Others

- Joined the jury panel at the Lebanese University for the final review of students in Master of Landscape Architecture Program

Jala Makhzoumi

AUB

- Committee member of the ad hoc LDEM Committee for the MLA program development
- Advisory Board Member at the Nature Conservation Center (NCC)

Others

- Main founder and President of the Lebanese Landscape Association (LELA), NGO as the Lebanese Chapter of the International Federation of Landscape Architects (IFLA)

Salma Talhouk

AUB

- Member of FAFS Strategic Planning Committee
- Member of the Executive Committee of NCC (AUB's Nature Conservation Center), 2010-present.

- Member of FAFS Advisory Committee
- Chair of AUBotanic Committee
- Member of the Medicinal Plant Graduate Program Planning Committee
- Founding member of the Green Roof Research Group
- Member of the committee working on the development of the graduate interdisciplinary program on Integrative Health

Others

- Leading a National Biodiversity Village Award event.
- Preparing school extra-curricular nature activity-related guide.
- Leading national tree-planting campaign.
- Reviewer for the UNDP small grants program
- Member of the Biodiversity and genetic varieties of Olives Committee at the Ministry of Agriculture

Maria Gabriella Trovato

AUB

- Chair of the Library Committee
- Member of the Graduate Studies Committee
- Chair of the ad hoc committee for the MLA program development
- Member of the Initiative for AUB Botanic Garden
- Coordinator of the landscape student participation at the e-scape transitional settlement Workshop in Lebanon
- Member of the AUB working group on Syrian Refugee Crisis

Others

- Member of the landscape Advisory Committee of the MEDSCAPES project
- Member of the Steering Committee of the MEDSCAPES project
- Member of the European Council of Landscape Architecture Schools (ECLAS)
- Member of Order of Architects, Planners, Landscape Architects and Conservators, Province of Messina, Italy
- Member of the Editorial Department of the 'RIVISTA' journal of the Order of Architects, Planners, Landscape Architects and Conservators, Province of Messina, Italy
- Co-founding member of the Lebanese Landscape Association (LELA), NGO
- Member of the IFLA Landscape Architecture without borders working group, under the Professional Practice IFLA Committee
- Responsible for the CIVILSCAPE's Task Force for Landscape in Emergency

Rami Zurayk

AUB

- Chairperson, Department of Landscape Design and Ecosystem Management (LDEM), January 2014 – present.
- Member of the Interdisciplinary Programs Committee 2011-current
- Acting Director of the Interfaculty Graduate Environmental Sciences Program (IGESP)
- Member of the University Research Board
- Member in Interfaculty Committee on Capacity Building in Food Security
- Member of FAFS Advisory Committee
- Chair of FAFS Research Committee
- Member of FAFS Administrative Committee
- Member of the FAFS Academic Curriculum Committee



Others

- Reviewer in African Journal of Agricultural Research Journal of peasant studies
- Part of the Humanities team of 'National Endowment for the Humanities' (NEH) Bridging Cultures through Film Development Grant to work with the team of Michigan State University faculty and the Lansing-based production company Message Makers who have joined to produce a document film tentatively titled "Beirut recycled".
- Advisory Board Member and Columnist, Journal of Agriculture, Food Systems, and Community Development
- Editorial Board Member, Biodiversitas Journal of Biological Diversity

CONSULTANCIES

Mehran Madani

- Selected as the Nominator and juror for Aga Khan Award for Architecture for 2016 award cycle.

Jala Makhzoumi

- Mecca Techno Valley, Landscape Master Plan and development guidelines, Client Um al Qura University, KSA (June 2015 –Ongoing)

Salma Talhouk

- Project Market Policy and Legislative Development for Mainstreaming the Sustainable Management of Marine and Coastal Ecosystems in Lebanon. Executing Agency Ministry of Environment of Lebanon. Project partners GEF – UNEP, Activity 2101: Updating of 2002 SAP-BIO National Report, Sub-Contractor

Strategic Challenges

Challenges to be tackled this year are:

- Conducting program review for the BLA Program in 2017.
- Finalizing the new graduate Masters of Landscape Architecture Program.
- Recruitment of new faculty under current security issues and political situation.
- The department suffered from the absence of a model shop for the design studio projects as well. That makes students frustrated of inability to express their ideas by physical models and force them to use the limited outside facilities, which prevent them from experiencing hands-on skills and be active participants. The move to Reynolds will make this possible if the model shop project which will be applied for as capital budget for 2017-2018 gets approved.
- Lack of a fixed budget for holding departmental lecture/workshop series is an obstacle for establishing an interdisciplinary discourse among the local and international scholars.



DEPARTMENT OF **NUTRITION & FOOD SCIENCES**



C. DEPARTMENT OF NUTRITION AND FOOD SCIENCES

Prepared by Dr. Lara Nasreddine, Chairperson

HIGHLIGHTS

During the period of September 1, 2015 to August 31, 2016 the Nutrition and Food Sciences Department conducted several activities, as summarized below:

- Dr. Samer Kharroubi joined the NFSC Department as a full-time associate professor of Statistics.
- Dr. Ioannis Savvaidis joined the NFSC Department as a visiting professor of Food Microbiology.
- Dr. Ammar Olabi was promoted to the rank of Professor, effective September 2016.
- Dr. Mohamad Abiad was promoted to the rank of Associate Professor, effective September 2016.
- The department recruited Ms. Tsolaire Sourenian as a departmental technician to provide assistance in lab-related activities including teaching and research.
- Dr. Farah Naja and Dr. Imad Toufeili were on research leave during Fall 2015-2016.
- The NFSC Department received approval for a new graduate program in Food Safety by the University Senate in April 2016. The department is currently working on obtaining approval of NYSED and program registration by the Ministry of Education and Higher Education (Lebanon). The new program is expected to be launched in 2017.
- The NFSC Department received approval for a new graduate program in Public Health Nutrition by the University Senate in May 2016. The department is currently working on obtaining approval of NYSED and program registration by the Ministry of Education and Higher Education (Lebanon). The new program is expected to be launched in 2017.
- The NFSC Department finalized and submitted the proposal for a new B.Sc. in Food Science and Technology. The proposed program fully aligns with the Education Standards of the US-based Institute of Food Technologists (IFT), the largest professional food science organization in the world. The proposal was reviewed by the University ADC in Spring 2015-2016. The department has revised the proposal based on comments provided by the University's ADC and has re-submitted the revised draft to the ADC in May 2016.
- The NFSC Department hosted a two-day workshop on "Basic and Advanced Carbohydrate Counting," presented by Ms. Claudia Matta, on January 4 and 5, 2016.
- The NFSC Department hosted a workshop on "Post-Graduation Opportunities in Lebanon and Internationally," presented by Ms. Dima El-Halabi on April 14, 2016.
- The NFSC Department organized a one-day workshop on "Nutrigenomics and Personalized Nutrition: Implications for the Dietetic Practice" presented by Dr. Ahmed El-Sohemy, on May 16, 2016.
- The NFSC Department in collaboration with the Institute of Global Health (part of University College London) organized a ten-day course in Nutrition in Emergencies (NIE), on May 16-27, 2017).

- The NFSC Department hosted a two-day workshop on “Basic and Advanced Carbohydrate Counting,” presented by Ms. Claudia Matta, on May 23 and 24, 2016.
- The NFSC Department organized a three-day Dietetics Workshop in preparation for the US Registered Dietitian Exam (June 14–16, 2016), offered by Dr. Rayane AbuSabha.
- The NFSC Department completed the self-study for the Nutrition and Dietetics Coordinated program (NDCP), in preparation for the upcoming site-visit of ACEND in November 2016 and the reaccreditation of the program.
- The department has been actively pursuing one-way exchange programs for undergraduate (California Polytechnic State University, San Luis Obispo) and graduate (South Dakota State University) food science students.
- The department has been awarded with the “Annual Food Safety Lecture Series Fund” from Roadster Diner.
- The NFSC Department organized a presentation on “Improving the Health Properties of Dairy Products and Ingredients at the University of Minnesota,” in collaboration with the Department of Food Science and Nutrition from the University of Minnesota-USA. Presented by Dr. Tonya Schoenfuss, Associate Director, and Midwest Dairy Foods Research Center on February 19, 2016.
- The department participated in the University for Seniors (UFS) in a lecture on “Nutrition for Older Adults” as well as in the Women’s League Monthly Meeting at AUB. Lectures were given by Dr. Marie-Claire Chamieh.
- The department organized a one-day workshop on “Food packaging,” in collaboration with Euro-Lebanese Centre for Industrial Modernization (ELCIM) and the Lebanon Industry Value Chain Development Project, DAI funded by United States Agency for International Development (USAID), AUB, Beirut, Lebanon, February 2016.
- Dr. Jomaa conducted a pilot school-based nutrition intervention within schools in the Beqaa. This project is in collaboration with CCECS and ESDU, (Spring 2016).
- The NFSC Department organized a Chemical Lab Safety Training session. The training was given to FAFS students and took place at AUB, on September 23, 2015.
- NFSC students participated in the Love Pulses Product Showcase, Virtual Competition.
- The Nutrition Student Society organized 3 big events for the National Nutrition Month in March, to provide awareness on body composition and healthy food choices on March 1st, 8th, 15th, 2016.
- The USFC Funded the Nutrition Society at the 5th KAS CRSL Conference, where the Nutrition Student Society provided recommendations on physical activity and healthy eating habits, (April 8, 2016).
- NFSC CP students organized a FIT-a-thon on October 9, 2015 and were involved in MEMA activities.
- The Nutrition Student Society collaborated with the H.O.P.E club to raise nutrition awareness.
- The Nutrition Student Society organized the Souk aal Souk event in Bourj Hamood held on November 1, 2015, and organized the Diabetes Event in West Hall, held on November 16, 2015.
- The Nutrition Student Society and the NFSC graduate students participated in the annual “Science Days” event held on October 8-10, 2015.



PERSONNEL

The NFSC Department has thirteen full-time faculty members (including three instructors and a Lecturer), four part-time faculty members (Total FTE: 13.51 based on Fall Semester data), and fourteen research assistants, of whom eleven are appointed on research grants. Fourteen graduate assistants were appointed for the first semester (Fall 2015-2016), Fifteen for the second semester (Spring 2015-2016) and five for Summer 2016. The department has three support staff. The tables below provide detailed lists of personnel, GAs and RAs in the Nutrition and Food Sciences Department.

Full-time Faculty

Nahla Hwalla	Dean, Professor
Lara Nasreddine	Chairperson, Associate Professor Coordinator of Undergraduate Studies in Nutrition & Dietetics
Imad Toufeili	Professor
Ionnis Savvaidis	Visiting Professor
Omar Obeid	Professor
Ammar Olabi	Associate Professor
Samer Kharroubi	Associate Professor
Mohammad Abiad	Assistant Professor
Lamis Jomaa	Assistant Professor
Farah Naja	Assistant Professor
Marie-Claire Chamieh	Lecturer
Basma Hamadeh	Instructor
Dima El Halabi	Instructor
Yara Gholmie	Instructor

Part-time Faculty

Carla Habib Mourad	Lecturer
Youssef Habbal	Instructor
Hamza Daroub	Instructor
Krystel Ouaijan	Instructor

Research Associates

Batoul Zaiter
 Ghada Ziadeh
 Marilyne Menassa
 Patricia Moughames
 Joanna Abi Rizk
 Jennifer Ayoub
 Bayan Rafii
 Zahraa Khalil
 Dana Haddad
 Romy Abi Fadel
 Carla El Mallah
 Massar Dabbous
 Rouba Cheaib
 Rita Khoury

Support Staff

Samson Atamian	Pilot Plant Supervisor
Tsolair Sourenian	Laboratory Technician
Tania Ghannam	Secretary
Samir Touma	Technician

GRADUATE ASSISTANTS**Fall 2015-2016**

Graduate Assistant	Major
Al-Ashi, Nadia	Nutrition
Baddour, Lea	Food Tech.
Beyh, Yara	Nutrition
Chamata, Yara	Food Tech.
Daher, Sara	Nutrition
El Helou, Nehmat	Food Tech.
Faraj, Suzan	Nutrition
Haber, Sally	Nutrition
Hamamji, Samer	Nutrition
Koleilate, Line	Food Tech.
Ramlawi, Rania	Nutrition
Samaha, Elisa	Food Tech.
Samaha, Stephanie	Food Tech.
Sibaie, Sireen	Food Tech.

Spring 2015-2016

Graduate Assistant	Major
Baddour, Lea	Food Tech.
Chamata, Yara	Food Tech.
El Helou, Nehmat	Food Tech.
El Zein, Rim	Food Tech.
Koleilate, Line	Food Tech.
Samaha, Elisa	Food Tech.
Sibaie, Sireen	Food Tech.
Baalbaki, Rim	Nutrition
Beyh, Yara	Nutrition
Daher, Sara	Nutrition
Diab El Harake, Marwa	Nutrition
Faraj, Suzan	Nutrition
Haber, Sally	Nutrition
Hamamji, Samer	Nutrition
Sleem, Waed	Nutrition



Summer 2015-2016

Graduate Assistant	Major
Diab El HArake, MARwa	Nutrition
Faraj, Suzan	Nutrition
Haber, Sally	Nutrition
Hamamji, Samer	Nutrition
El Helou, Nehmat	Food Tech.

TEACHING

Student Enrollment in Courses

Fall 2015-2016 – Undergraduate

Course	Credits	Enrollment	Instructor(s)
NFSC 220	3	74	Mourad
NFSC 221	3	41	Chamieh
NFSC 222	3	65	Jomaa
NFSC 252	3	7	Abiad
NFSC 261	3	41	Charafeddine
NFSC 265	3	48	Karam
NFSC 267	2	33	Hamadeh/Daroub
NFSC 277	3	72	Savvaiddis
NFSC 279	1	17	Samaha
NFSC 281	1	46	Gholmieh
NFSC 282	3	16	Savvaiddis
NFSC 283	3	17	Jomaa
NFSC 284 A	1	17	El Halabi
NFSC 285	2	63	Obeid
NFSC 286	1	16	Gholmieh
NFSC 288	3	30	Olabi/Hamadeh
NFSC 290	3	21	El Halabi
NFSC 292	3	62	Karam/Barhoumi
NFSC 294	1	47	Samaha
NFSC 296	1	17	El Halabi
NFSC 298 F	14	17	Chamieh
NFSC 299	2	17	Olabi

Fall 2015-16 Graduate

Course	Credits	Enrollment	Instructor(s)
NFSC 300B	2	1	Obeid
NFSC 300C	3	1	Olabi
NFSC 305	3	10	Olabi
NFSC 311	3	9	Nasreddine
NFSC 314	3	6	Obeid
NFSC 377	3	9	Abiad
NFSC 391	3	16	Mouneimne
NFSC 395	1	8	Abiad
NFSC 396	0	1	Jomaa
NFSC 396	0	1	Abiad
NFSC 396	0	1	Obeid
NFSC 396	0	1	Olabi
NFSC 399	T	1	Jomaa
NFSC 399A	T	2	Abiad
NFSC 399B	T	1	Olabi
NFSC 399B	T	2	Nasreddine
NFSC 399C	T	1	Obeid



Spring 2015-2016-Undergraduate

Course		Credits	Enrollment	Instructor(s)
NFSC	220	3	70	Murad
NFSC	221	3	51	Naja
NFSC	224	1	23	Ouaijan
NFSC	229	1	58	Chamieh
NFSC	240	2	48	Chamieh/Gholmieh
NFSC	261	3	22	Charafeddine
NFSC	265	3	30	Toufeili
NFSC	267	2	36	Hamadeh/ Daroub
NFSC	272	2	26	Olabi
NFSC	274	3	47	Obeid
NFSC	275	2	20	El Halabi/Chef Koleilat
NFSC	278	3	21	Savvaadis/Karam
NFSC	284B	1	17	El Halabi
NFSC	287	2	67	Abiad
NFSC	289	1	55	Hamadeh/Daroub
NFSC	290	3	42	El Halabi
NFSC	291	3	23	Abiad
NFSC	293	3	58	Nasreddine
NFSC	295	1	41	Gholmieh/Samaha
NFSC	296	1	19/25/8	Naja/Olabi/Jomaa
NFSC	297	1	16	Gholmieh/Samaha
NFSC	298S	14	17	Chamieh
NFSC	299	2	56	Naja

Spring 2015-2016-Graduate

Course		Credits	Enrollment	Instructor(s)
NFSC	300C	3	1	Obeid
NFSC	301	3	7	Kharroubi
NFSC	306	3	3	Jomaa
NFSC	310	3	10	Toufeili
NFSC	315	3	6	Obeid
NFSC	351	3	3	Savvaadis
NFSC	370	3	9	Olabi
NFSC	391	3	24	Mouneimne/Shatila
NFSC	395	1	4	Abiad
NFSC	396	0	2	Obeid
NFSC	396	0	1	Toufeili
NFSC	399	T	1	Obeid
NFSC	399A	T	1	Jomaa
NFSC	399A	T	1	Obeid
NFSC	399B	T	2	Abiad
NFSC	399B	T	2	Obeid
NFSC	399C	T	2	Nasreddine
NFSC	399C	T	1	Olabi

Summer 2015-2016 - Undergraduate

Course		Credits	Enrollment	Instructor(s)
NFSC	221	3	17	Obeid
NFSC	225A	0	21	El Halabi
NFSC	225B	0	14	Gholmieh
NFSC	261	3	18	Toufeili
NFSC	280	1	20	Abiad/Olabi



Summer 2015-2016 - Graduate

Course		Credits	Enrollment	Instructor(s)
NFSC	300A	1	1	Toufeili
NFSC	300B	2	1	Naja
NFSC	300C	3	1	Olabi
NFSC	399	T	1	Olabi
NFSC	399	T	1	Nasreddine
NFSC	399	T	1	Jomaa
NFSC	399	T	1	Obeid
NFSC	399	T	1	Obeid

Completed Theses

A total of seven theses were completed in 2015-2016 as below:

Student Name	Thesis Topic
Christelle Cordahi	Adherence to a Mediterranean diet and risk of the metabolic syndrome in Lebanese urban adults.
Malake Ghozayel	Assessment of energy drink consumption patterns and perceptions among a sample of university students in Beirut, Lebanon: A mixed methodology approach.
Camille Georges	The effect of salt reduction on dough mixing properties and Arabic bread sensory characteristics.
Rita Jalkh	Extracts from spent coffee grounds and waste cooking oils to modify the physical properties of recycled asphalt binder.
Mariam Assaad	The role of phosphorus in diet induced thermogenesis in both lean and obese subjects.
Lara Itani	Obesity and its association with socioeconomic, dietary, lifestyle, and sleep characteristics in Lebanese urban adults.
Salma Chouccair	Validation of a food frequency questionnaire and a spot urine sample for the assessment of dietary sodium intake in Lebanese adults.

RESEARCH FUNDING

Internal Grants

University Research Board (URB)

The following six members of the department received funds from the University Research Board (URB):

- Abiad, M. Yr3-Household Food Waste Generation in Urban Lebanon: Behavioral Patterns, Economic Costs and Policy Options.
- Jomaa, L. Assessment of Food Security in Lebanon: A National Study.
- Kharroubi, S. Bayesian estimation of health utility values.
- Nasreddine, L. Bisphenol A and the Risk of Hypertension in Urban Lebanese Adults.
- Olabi, A. Effect of food preferences on PYY & GLP-1 (Appetite Hormones) response in normal weight male subjects.
- Obeid, O. The role of phosphorus in diet induced thermogenesis of both lean and obese subjects.

Local, Regional and International Grants

Five members of the department were successful in attracting national and international grants as below:

- Jomaa, L. ROTA: Developing a School-Based Nutrition Education Intervention and Assessing its Impact on the Nutrition Security Status and Dietary Intake of Syrian Refugee Children: A Case Study from the Beqaa Region in Lebanon (2015-2017).
- Naja, F. & Nasreddine, L and Hwalla N. Qatar Foundation: Mother and Child cohort: Towards Curbing the NCD epidemic in Qatar and Lebanon (2013-2016).
- Hwalla N., Nasreddine, L and Naja F. Nestle Middle East: Enhancing Health through Nutrition: The 'Nutrition In Arab Youth (NAY) Project (2013-2016).
- Hwalla N., Nasreddine, L and Naja, F. CNRS: Associated Research Unit (ARU) for "Nutrition and Non-communicable Diseases in Lebanon" (2012-2016).
- Nasreddine, L. CNRS: Bisphenol and risk of hypertension in urban Lebanese adults (2014-2015)
- Obeid, O. CNRS: The Role of Phosphorus in diet induced thermogenesis of both lean and obese subjects (2015-2016).
- Obeid, O. Iodine Global Network (IGN): Urinary electrolyte excretion and associated health outcomes in primary school children in the UAE (2015-2017).
- Obeid, O. Iodine Global Network (IGN): Monitoring and evaluation of salt iodization in Lebanon (2015-2016).
- Obeid, O. Haitham A Daoud and Dalia Haroun, KSA: The acute effect of phosphorus supplementation on 5-km time trial running test in moderately active men (2016-2018).
- Obeid, O. ETH-AUB: The relation between adiposity, inflammation, glycaemia and iron absorption: A comparison between central and peripheral adiposity (2016-2018).
- Obeid, O. Zayed University: Urinary Electrolyte Excretion and Associated Health Outcomes in Primary School Children in the UAE (June 2016-October 2017).



PUBLICATIONS

Twenty Seven articles were published in international referred journals by NFSC members as indicated below:

International Refereed Journals (Corresponding/Senior author *)

1. Ajay Kathuria, Saleh Al-Ghamdi, **Mohamad G. Abiad** and Rafael Auras. *The Influence of Cu₃(BTC)₂ Metal Organic Framework on the Permeability and Perm-selectivity of PLLA-MOF Mixed Matrix Membranes*. Journal of Applied Polymer Science. (2015) 132 (46): 42764. doi:10.1002/app.42764
2. Al Thani M., Al Thani AA., Al-Chetachi W., Al Malki B., Khalifa SA., Bakri AH., Hwalla N., **Nasreddine L.***, **Naja F.***, 2015, Lifestyle Patterns Are Associated with Elevated Blood Pressure among Qatari Women of Reproductive Age: A Cross-Sectional National Study, *Nutrients*, 7:7593-615 (**Nasreddine and Naja contributed equally to this manuscript**).
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10. Jomaa L., Hwalla N., Itani L., Chamieh MC., Mehio-Sibai A., **Naja F.*** A Lebanese dietary pattern promotes better diet quality among older adults: findings from a national cross-sectional study. *BMC Geriatr*. 2016 Apr 19;16(1):85.
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17. **Naja F., Hwalla N.**, Karam S., Itani L., Sibai A. and **Nasreddine L***, 2015, A Western Dietary Pattern is Associated with Overweight and Obesity in a National Sample of Lebanese Adolescents (13-19 years)." *British Journal of Nutrition* 114:1909-19.
18. **Nasreddine L***, Rehaime M., Kassaiy Z., Rechmany. R, Jaber F. Dietary exposure to pesticide residues from foods of plant origin and drinks in Lebanon. *Environ Monit Assess*. 2016 Aug; 188(8):485. doi: 10.1007/s10661-016-5505-y. Epub 2016 Jul 27.
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20. Shaea A. Alkahtni, Michelle Dalton, Omar I. Abuzaid, **Omar A. Obeid**, Graham S. Finlayson. Validation of the Leeds Food Preference Questionnaire in Arabs. *Asia and Pacific Journal of Clinical Nutrition*. 2016; 25(2). doi: 10.6133/apjcn.2016.25.2.07.
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22. Srour, N., Daroub, H., Toufeili, I. and **A. Olabi.*** 2015. Developing a carob-based milk beverage using different varieties of carob pods and two roasting treatments and assessing their effect on quality characteristics. *Journal of the Science of Food and Agriculture*. DOI: 10.1002/jsfa.7476.
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Abstracts

- Assaad M., El Mallah C., **Olabi A., Obeid O.** The Role of Phosphorus in Diet Induced Thermogenesis of Lean Male Subjects Consuming a High Carbohydrate Meal. Presented at the Nutrition and Food Research Conference Trends and Challenges in the Middle East, at the Lebanese American University on April 12th, 2016.
- Abdouni L., El Mallah C., **Olabi A., Obeid O.**, Bassil M. The Role of Phosphorus in Diet Induced Thermogenesis of Lean Male Subjects Consuming a High Protein Meal. Presented at the 6th Annual AUB Biomedical Research Day on February 27th, 2016.
- Assaad M., El Mallah C., **Olabi A., Obeid O.** The Role of Phosphorus in Diet Induced Thermogenesis of Lean Male Subjects Consuming a High Carbohydrate Meal. Presented at the 6th Annual AUB Biomedical Research Day on February 27th, 2016.
- Ragi M.E., El Mallah C., **Toufeili I., Obeid O.** Phosphorus Supplementation Improved Growth Rate of Rats Maintained on Gluten Diet. Presented at the 6th Annual AUB Biomedical Research Day on February 27th, 2016.
- Awada Z., Akika R., Mogharbel N., Nasrallah M., Nakhoul N., **Nasreddine L.**, Mouneimne Y., **Abiad M.**, Ismaeel H., Tamim H., Zgheib, NK. Association between bisphenol A (BPA) levels and estrogen receptor alpha (ER α) promoter methylation in a cohort of Lebanese individuals. 6th Annual Biomedical Research Day. February 27, 2016, Beirut, Lebanon.
- Akika R., Awada Z., Sleiman F., Nasrallah M., Nakhoul N., **Nasreddine L.**, Mouneimne Y., **Abiad M.**, Ismaeel H., Tamim H., Zgheib, NK. Association between bisphenol A (BPA) levels and relative telomere length (RTL) in a cohort of Lebanese individuals. 6th Annual Biomedical Research Day, February 27, 2016, Beirut, Lebanon.
- M.E. Ragi, C. El Mallah, I. Toufeili and O. Obeid. **Effect of phosphorus supplementation on food intake and growth rate of rats maintained on gluten diet.** Presented at the Nutrition Society Summer Conference 2016: New Technology in Nutrition Research and Practice– University College Dublin–11-14 July 2016.
- L. Abdouni , A. Olabi , M. Bassil and O. Obeid. **Effect of phosphorus supplementation on diet induced thermogenesis of high protein-low phosphorus meal.** Presented at the Nutrition Society Summer Conference 2016: New Technology in Nutrition Research and Practice – University College Dublin–11-14 July 2016.
- Georges*, C., Daroub, H., Toufeili, I. and **Olabi, A.** The effect of salt reduction on dough mixing properties and white pita bread sensory characteristics. Abstract presented as a poster at the Institute of Food Technologists Annual Meeting, Chicago, July 16-19, 2016.
- **Olabi, A.***, Georges, C., Daroub, H., Chalhoub, J., Shayto, R., Nader, R., Chaar, H. and Ala Sharara. Sensory Evaluation of Commercial Bowel Cleansing Solutions. Abstract submitted, to be presented, if accepted, as a poster at the Digestive Diseases Week 2016, San Diego, May 21-24, 2016.
- Bassil, M., Zeeni, N., Farran, N., & **Obeid, O.** (2016). High Phosphorus Diet Mitigates Impairments in Lipid and Glucose Metabolism Associated with Diet-Induced Obesity in Male Sprague Dawley Rats. *The FASEB Journal*, 30(1 Supplement), 291-6.

- Bassil, M., & **Obeid, O.** Phosphorus supplementation enhances the postprandial satiety of overweight and obese subjects and recovers their blunted diet induced thermogenesis. *Clinical Nutrition*, 34 (1), S10-11.
- Bassil, M., & **Obeid, O.** (2015). Phosphorus supplementation recovers the blunted diet induced thermogenesis in overweight and obese subjects. *The FASEB Journal*, 29 (1 Supplement), LB372.

SERVICES

Mohammad Abiad

AUB

- University Senate–*Elected FAFS Representative*
- University Senate Steering Committee–*Elected FAFS Representative*
- University Disciplinary Committee–*Elected FAFS Representative*
- Social and Behavioral Sciences Institutional Review Board (SBS-IRB)–*Full Member*
- University Sports Committee–*Member*
- Nature Conservation Center Executive Committee–*Elected Member*
- Writing Center Advisory Board–*Member*
- K.A.S. Central Research Science Laboratory Steering Committee–*Member–FAFS Representative*
- Interfaculty Financial Aid Committee–*FAFS Representative (member)*
- Nature Conservation Center for Sustainable Futures–*Member*
- Board of Graduate Studies–*Elected FAFS Representative*
- Faculty Student Affairs Committee–*Chair, Elected Member*
- Faculty Graduate Studies Committee–*Elected Member*

Others

- Reviewer for the Institutional Review Board (IRB) at AUB
- Reviewer for the following international journals:
 - Food Quality and Preference
 - Advances in Civil engineering

Lamis Jomaa

AUB

- Member of the FAFS Research Committee, (Sept 2015-present)
- Member of the FAFS Graduate Studies Committee, (Sept 2015-present)
- Member of the FAFS Undergraduate Admissions Committee, (Sept 2015-present)
- Alternate member on the Social and Behavioral Research Institutional Review Board (IRB) Secretary of the FAFS Faculty Committee meetings, (September 2014–September 2015)
- Member of the interdepartmental Rural Community Development Committee, (Spring 2014 – present)
- Member of the Undergraduate Admissions Committee, (2014-present)
- Member of the Student Affairs Committee, (Spring 2014-2015)



Others

- Member of the Fulbright Alumni Association in Lebanon (FAAL), (2011-present)
- Member of the Society of Nutrition Education and Behavior (SNEB), (2010-present)
- Member of the Lebanese Association for Nutrition and Dietetics, (2004-present)

Samer Kharroubi

Others

- Member of the Royal Statistical Society (RSS)
- Involved in
 - WRIHTA; White Rose Initiative in Health Technology Assessment (WRIHTA)
 - SchARR: School of Health and Related Research at the University of Sheffield
 - CHE: Centre for Health Economics at the University of York. Member in the International Editorial Reviewer Board of International Journal of Healthcare
- Member in the International Editorial Reviewer Board of International Journal of Healthcare
- Abstract Reviewer for the Annual Meeting of the Society for Medical Decision Making
- Reviewer for the following journals: Statistics in Medicine, Probability and Statistics, Medical Decision Making, Journal of Health Economics, Value in Health
- Medical Research Council (MRC): Peer Review for grant proposals submitted to MRC

Farah Naja

AUB

- Member of the Scientific Committee for the 2016 Middle East Medical Assembly (MEMA).
- Advisor for the Cooking Club at AUB (2015-present)
- Member of the SBS IRB board (2013-present)
- Member of the University Wellness Committee (2009-present)
- Member of the Wellness Committee, FAFS (October 2008-present)

Others

- Member of the National Nutrition Colloquium Examining Committee (2008-present)

Lara Nasreddine

AUB

- Chair of the Department of Nutrition and Food Science (June 2014-present)
- Member of the Ad Hoc Committee for the development of the graduate program in Public Health Nutrition
- Member of the Ad Hoc Committee for the development of the graduate program in Food Safety
- Member of the Ad Hoc Committee for the development of the undergraduate program in Food Science and Technology
- Member of FAFS Administrative Committee (June 2014-August 2016)
- Member of FAFS Academic Curriculum Committee (June 2014-present)
- Member of the Organizing Committee for the 6th Biomedical research day (October 2016- present)
- Member of the Vascular Medicine Program (VMP) Executive Council (January 2013- present)
- Member of the Biomedical Sciences PhD Committee (November 2012-present)

Others

- Reviewer for the British Journal of Nutrition
- Review Editor for Frontiers in Nutrition and Environmental Sustainability
- Associate Editor for BMC Nutrition
- Member of the Population Health and Nutrition Study group (PHANS), AUB
- Member of Lebanese Action for Salt and Health (LASH)
- Member of the World Action on Salt & Health (WASH)
- Member of the International Breast Cancer and Nutrition (IBCN; Lebanon's network)

Omar Obeid**AUB**

- Member of Advisory Committee. FAFS
- National Coordinator of Iodine Global Network for Lebanon (June 2013)

Others

- Editor: Journal of Obesity and Overweight
- The Nutrition Society, UK (Full member)
- The Lebanese Association for Nutrition and Food Science
- Advisory Committee for the Arab Center of Nutrition
- Member of the Editorial Board: Arab Journal of Food and Nutrition
- Member of the *Nutrition in Emergencies Training Network* (NIETN)
- Reviewed many manuscripts: for Eastern Mediterranean Health Journal (EMHJ), Journal of Biological Sciences, etc.
- PhD thesis Supervisory Committee: student at the Lebanese University
- External examiner for PhD thesis: University of Sultan Qaboos, Oman
- Coordinator of the Nutrition in Emergency training course; 16-27th May 2016

Ammar Olabi**AUB**

- Member of the FSMT Accreditation Committee
- Member of NCC (Nature Conservation)
- Program Learning Outcomes Departmental Representative
- Member, FAFS Advisory Committee
- Member, Academic and Curriculum Affairs Committee
- Member of the Search Committee for the Director of the Office of International Programs
- Member of the Second Tenure Task Force FAFS Representative
- Member of the Lebanon Action for Salt and Health Group (LASH)
- Member of the Teaching Excellence Award Committee (Dates not shown for confidentiality purposes)

Others

- Jury Member for the Institute of Food Technologists (IFT) Sensory and Consumer Sciences Achievement Award (Dates not shown for confidentiality purposes)
- Jury Member for the selection and evaluation of abstracts submitted to IFT's annual conference (Dates not shown for confidentiality purposes)
- Ministry of Agriculture (Committee for milk and milk products) December 2009- present)
- Ministry of Agriculture (Agro Industry Committee), January 2010-present
- Member of the National Codex Alimentarius Committee
- Member of the World Action on Salt & Health (WASH)
- Founding Board Member, Land O Lakes Association-Lebanon (March 2014-present)



- Reviewer for the Journal of Food Science
- Reviewer for the Journal of Dairy Science
- Reviewer for the Journal of the Science of Food and Agriculture
- Reviewer for Food Quality and Preference
- Reviewer for Appetite
- Member of the Institute of Food Technologists (Sensory and Quality Assurance divisions)
- Member of the American Dairy Science Association
- Guest Lecturer in AGSC 201 (Fall 2015-16)

Imad Toufeili

Others

- Reviewer, LNCSR research proposals

PARTICIPATION IN WORKSHOPS AND CONFERENCES

NFSC Department

- The NFSC Department participated in the “Practice Sports Safety” Seminar, with a presentation on “Healthy Nutrition for Athletes.” The event was organized by AUB and AUBMC on April 6, 2016 to celebrate the UN International Sports Day for Development and Peace presented by Dr. Carla Habib.

Mohamad Abiad

- Participated in a two-day workshop on a new methodological tool to assess the economic, environmental, community and social impact of new and existing projects under the proposed EDILE label (Economic Development through Inclusive and Local Empowerment); The workshop was organized by the Chamber of Commerce, Industry and Agriculture of Beirut and Mount Lebanon (CCIA-BML), EDILE’s EU partners lesMed, a cooperative from Barcelona, Spain, and ClassM, a business solution company from Marseille, France, (Beirut, Lebanon. September 2015).
- Attended a webinar on High Pressure Rheology: Introduction and Applications. (Webinar organized by TA Instruments and delivered by Matthew Liberatore, Associate Professor of Chemical Engineering, University of Toledo, USA, October 2015).
- Gave a presentation on “Assessing the Economic, Environmental, Community and Social Impact of New and Existing Projects Under the Proposed EDILE Label (Economic Development through Inclusive and Local Empowerment).” EDILE Regional Seminar, Barcelona, Spain. (Invited Speaker, March 14-15, 2016).
- Gave a presentation on “Sustainable Packaging: A Solution to Many Problems.” Seminar series organized by the Industrial Research Institute (IRI) and the Euro-Lebanese Center for Industrial Modernization (ELCIM). HORECA 2016, Beirut, Lebanon. (Invited Speaker, April 7, 2016).

Marie-Claire Chamieh

- Attended the International Congress on obesity (ICO 2016), where she presented a poster: “Characteristics of Implausible Reporters of Energy Intake in Lebanese Adults: A Cross Sectional Survey Using the Food Frequency Questionnaire,” that was held in Vancouver, Canada, on May 1-4, 2016.

Lamis Jomaa

- Gave a lecture titled: “Energy Drinks’ Perceived Benefits and Health Hazards among Youth,” as part of the Annual Conference of the Lebanese Society of Family Medicine. The title of the conference for this year was “Family Medicine

for Orchestrating Health” (November 8, 2015, Hilton Beirut Metropolitan Palace, Lebanon).

- Attended a workshop on qualitative research – Faculty of Health Sciences–AUB, January 2016.
- Gave an Oral presentation at the LAU Nutrition and Food Research Conference- “Comparison of the Food and Nutrition Security Status of Syrian Refugees and Their Lebanese Host Communities in Lebanon: The Case of Akkar,” April 12, 2016.
- Attended a meeting at the FAO Regional Conference for the Near East (NERC), to discuss priority issues for food security, agriculture, nutrition and rural development in the region. The event was held in Rome, Italy, on May 9-13, 2016.
- Represented AUB–FAFS at the WFP-ESCWA Food Security Validation Workshop–April 12, (half day).

Samer Kharroubi

- Granted the short-term faculty development grant to participate at the World Congress in Probability and Statistics, taking place in Toronto, Canada from July 11-15, 2016.

Farah Naja

- Presented the lecture entitled “Role of the Dietitians in the Management of Non-Communicable Diseases-Implication for Policy” at the “Dietician Day” organized by the Faculty of Public Health, Lebanese University, North Lebanon, Brach III on March 12, 2016.
- Invited as a member on Panel Discussion tackling nutrition and non-communicable diseases at the Nutrition and Food Research Day, organized by LAU (April 12, 2016)
- Dr. Nasreddine and Dr. Naja gave a three-day workshop on “Total Diet Studies” on May 6-9, 2016.

Lara Nasreddine

- Gave a presentation on “Adherence to the Mediterranean Diet and its Association with Cardiometabolic Risk,” Third Annual Vascular Medicine Program retreat (Invited Speaker, Beirut, December 12, 2015).
- Presented a lecture entitled “Childhood Obesity in the Eastern Mediterranean Region: A call for Immediate Action,” at the conference entitled “Solutions for a Better life,” University of Sharjah, UAE (February 21, 2016).
- Participated in the workshop entitled “Child Nutrition, Health & Well-Being workshop: Latest Updates & Case Studies,” organized by Catalyst Training Lab–and gave a presentation entitled “*Overweight and Obesity Child Nutrition*,” Beirut, Lebanon on February 6, 2016 and March 5, 2016 consecutively.
- Participated in the workshop entitled “Child Nutrition, Health & Well-Being workshop: Latest Updates & Case Studies,” organized by Catalyst Training Lab–and gave a presentation entitled–“*Maternal and Child Nutrition: the importance of early life nutrition*,” Beirut, Lebanon on February 6, 2016 and March 5, 2016 consecutively.
- Gave a lecture entitled “Obesity: Regional-Global View and Policy Implications, as part of the SHARP Seminar Series,” Beirut, Lebanon, on March 14, 2016.
- Invited as a keynote speaker to give a lecture on “Childhood Obesity in the Eastern Mediterranean Region” at the Nutrition and Food Research Conference, organized by LAU on April 12, 2016.
- Gave a presentation entitled “*Prevalence and Correlates of Overweight and Obesity Amongst 2-5 year Old Preschoolers in Lebanon*,” in the First Nutrition Annual Conference of the Faculty of Pharmacy–USJ, on May 16-17, 2016, Medical Sciences Campus-USJ, Beirut, Lebanon.



- Attended the Regional Workshop: “Preventing the Development of Obesity and Diabetes in the EM Region in Both Children and Adults,” organized by the WHO and held in Geneva, Switzerland, on May 30-June 2, 2016.
- Dr. Nasreddine and Dr. Naja gave a three-day workshop on “Total Diet Studies,” (May 6-9, 2016).

Omar Obeid

- Participated as WHO Temporary Adviser in “CREATIVE FORUM ON UNOPPOSED MARKETING OF UNHEALTHY FOODS AND NON-ALCOHOLIC BEVERAGES TO CHILDREN,” (Amman, Jordan, 13-14 September 2015).
- Attended the National Institutes of Health-sponsored training course “Isotope Tracers in Metabolic Research: Principles and Practice of Kinetic Analysis,” given on November 16-20, 2015, in Cleveland, Ohio, USA.
- Attended, Building a Better Response: Integrated Learning Workshop that took place in Dubai, UAE, on January 17-21, 2016.
- Attended the NIE training course to discuss future collaboration on NIE training between International Medical Corps, Emory University in Atlanta, and AUB. In addition, he presented on micronutrients, in Atlanta, Georgia, USA, on August 12-19, 2016.
- Attended the scientific meeting: “The Role of Exercise Physiology in Health and Sport Performance,” held in King Saud University, Riyadh, Saudi Arabia, on May 1-2, 2016.

Ammar Olabi

- Gave with Dr. Mohamad Abiad a presentation entitled “Product Development Tools” at the TAIEX Workshop on Research and new product development for the Agro-food sector, SAS Radisson Hotel, (Beirut, September 30, 2015).
- Gave a two-day course on Sensory Evaluation of Food as part of the activities of the 5th Arab Beverages Conference and Exhibition 2015 organized by the Arab Beverages Association at the Grand Hyatt in Amman, Jordan, on September 8 and 9, 2015.
- Gave a presentation entitled “Innovative Trends in the Beverage Market,” a seminar organized by Industrial Research Institute (IRI) and Euro-Lebanese Center (ELCIM), HORECA 2016, Beirut, Lebanon, (April 7, 2016).
- Granted a short-term faculty development grant to participate in the annual conference of the Institute of Food Technologist (IFT) taking place in Chicago, USA between July 16th and 19th, 2016.

Ioannis Savva

- Attended the IMPARAS Conference, where he represented Greece in the Management Committee, which took place in Barcelona, Spain, on March 7-9, 2016.
- Attended the meeting related to Food Safety and Traditional Foods, where he gave an oral presentation entitled “Effect of Chitosan and Natamycin, applied individually, and/or in combination, on microbiological, physicochemical and sensory parameters of air and active packaged phyllo.” It was held at Sultan Qaboos University in Muscat, Oman, on April 12-14, 2016.

Attended the scientific meeting: “The Role of Exercise Physiology in Health and Sport Performance,” held in King Saud University, Riyadh, Saudi Arabia on May 1-2, 2016.

Imad Toufeili

- Granted a short-term faculty development grant to participate in the annual conference of the Institute of Food Technologist (IFT) taking place in Chicago, USA between July 16th and 19th, 2016.

CONSULTANCIES

Mohamad Abiad

- Sanitary Paper Co.-(Mimosa)
Zahleh-Qaa el Rim, Lebanon
February 2016
Packaging testing and quality monitoring
- Lebanese Ministry of Environment
Support to Reforms-Environmental Governance (STREG)
June 2015–Nov. 2015
The project involved the development of analysis of tools to support solid waste management in Lebanon, including (1) fiscal instrument to support recycling and (2) solid waste management charges. Recycling-related activities include collection of data, analysis of the amount of subsidy needed to enable the industry to grow, design of fiscal instruments for implementing such subsidies; development of the legal and institutional framework for implementing them; and drafting the laws, decrees or guidelines needed to implement them.

Nasreddine Lara

- Ahfad University of Women, Reviewing the University's Dietetics Bachelor Program, (2014-2017).
- Literature Review and Situation Analysis for the Pre-study FITS-KIDS Middle East: Jordan, Lebanon, Saudi-Arabia and the UAE-Interim Report 1, March 18, 2016 (Nestec consultancy).

Farah Naja

- Ahfad University of Women, Reviewing the University's Dietetics Bachelor Program, (2014-2017).
- Development of the Iranian Food Based Dietary Guidelines-WHO EMRO office-(Fall 2015-2016).

Ammar Olabi

Gave a Sensory Evaluation of Food Short Course. A two-day course on September 6 and 7, 2015, as part of the activities of the 5th Arab Beverages Conference and Exhibition 2015, organized by the Arab Beverages Association at the Grand Hyatt, Amman, Jordan, on September 8 and 9, 2015.

Omar Obeid

- Invited as *WHO Temporary Adviser* to participate in **“Creative Forum on Unopposed Marketing of Unhealthy Foods and Non-Alcoholic Beverages to Children,”** held in Amman, Jordan, on 13-14 September 2015.

STRATEGIC CHALLENGES

New initiatives:

- A diet clinic will be launched in October 2016 to provide the Nutrition and Dietetics students with a job shadowing experience.
- A full-time faculty member specialized in Food safety will join the department in Spring AY 2016-2017.
- A full-time faculty member specialized in Sports Nutrition will join the department in Spring AY 2016-2017.
- Partnering with the "Center for Civic Engagement and Community Service" at AUB to highlight the community-based learning strategies and activities conducted as part of the undergraduate and graduate community nutrition courses with students and dietetic interns.

Future plans

- Establish a nutrition research and outreach unit.
- Establish a Packaging and Consumer Unit for Research and Education (Pack CURE) at the Faculty of Agriculture and Food Sciences.
- Enhance collaborations with the food industry.

ANNUAL REPORT 2016-2015

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