



American University of Beirut
Faculty of Agricultural
and Food Sciences

Annual Report 2013–14



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and Food Sciences

Annual 2013–14 Report

Preface

Dear All

The academic year 2013-2014 was yet again a good year for FAFS, shaped by remarkable advances on several fronts at the Faculty. One of our main areas of emphasis is quality education. After diligent efforts, and to our collective delight, the *undergraduate Nutrition and Dietetics Coordinated Program (NDCP)* was accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) in November 2013. Upholding our tradition of being the “Faculty of Firsts”, the NDCP is the first and only nutrition program in the entire Middle East to obtain a U.S. accreditation, and the third in the world to receive accreditation outside the U.S. This prestigious international recognition of the NDCP is a significant compliment to the didactic Nutrition and Dietetics track at NFSC, which has successfully completed an external review last year.

Under the same initiative of quality education, the NFSC department initiated the development of a Food Science program eligible for approval by the US-based Institute of Food Technologists (IFT). Likewise, other departments at FAFS were busy with the development of programs in line with current trends and job market needs: the Agriculture department (AGRI)- a merger of the departments of Agricultural Sciences and Animal and Veterinary Sciences- started to work on the proposal of an inter-faculty degree of Doctor in Veterinary Medicine jointly with the Faculty of Medicine, and the LDEM department has continued its efforts in developing a graduate program in Landscape Architecture in accordance with the American Society of Landscape Architects’ (ASLA) standards of accreditation. The graduate program in Rural Community Development (RCODE) was launched in fall 2014, and the curriculum of a Diploma in Food Security was finalized and classes are set to begin in June 2015.

Our research profile is progressing steadily. This year, a total of 1,391,455 USD in grants were secured from internal, local, regional, and international public and private institutions, including Nestle Middle East, ICARDA, UNIFERT, and UN-ESCWA to name a few. Our faculty published fifty-two papers in internationally refereed journals, averaging 2.1 publications per faculty member, an improvement from last year’s 1.29.

The Faculty is committed to addressing global challenges such as nutrition and non-communicable disease, food safety, food security, and sustainable agriculture. In the past year, it has hosted several seminars and workshops in collaboration with internal, local, regional, and international public and private institutions such as the Issam Fares Institute, the Ministry of Public Health, UNICEF, and Purdue University. Two noteworthy training sessions were delivered : the first tackled the use of the national food based dietary guidelines (developed by the NFSC department)

targeting primary health care providers, and the second on conservation agriculture targeting Lebanese universities' students.

FAFS has extended its network of partnerships, whereby two new MOU agreements were signed with ICARDA for the provision of additional land and facilities for research and for the establishment of three Gene Bank rooms, in addition to the one established last year. An Urban Greening Research Group (UGRG) has been established to conduct research and outreach activities on urban and sustainable greening, using AUB as a showcase of their work.

During the annual year 2013/2014, FAFS welcomed two new faculty members: a Visiting Assistant Professor at the AGRI department and an Assistant Professor at LDEM.

Our visibility and marketing efforts were under review this year; Dr. Salma Talhouk was appointed as Associate Dean and progressed towards developing a visibility strategy for FAFS, including rebranding and profile building. Also, we are working closely with the Office of Advancement to collect funds to: renovate wing B, support the Food Security Program, develop an ECO-UNIT, and establish a biotechnology laboratory.

Last year was thus a busy and productive year, as you will find in the following pages. I would like to thank all faculty and staff for their hard work in support of academic excellence, our students for their outstanding efforts and you, our friends and alumni, for your continued support.

Nahla Hwalla, Dean

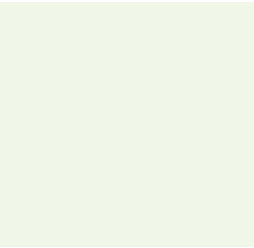
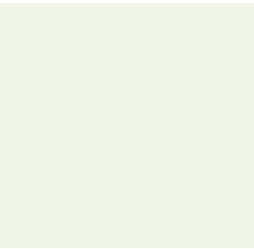
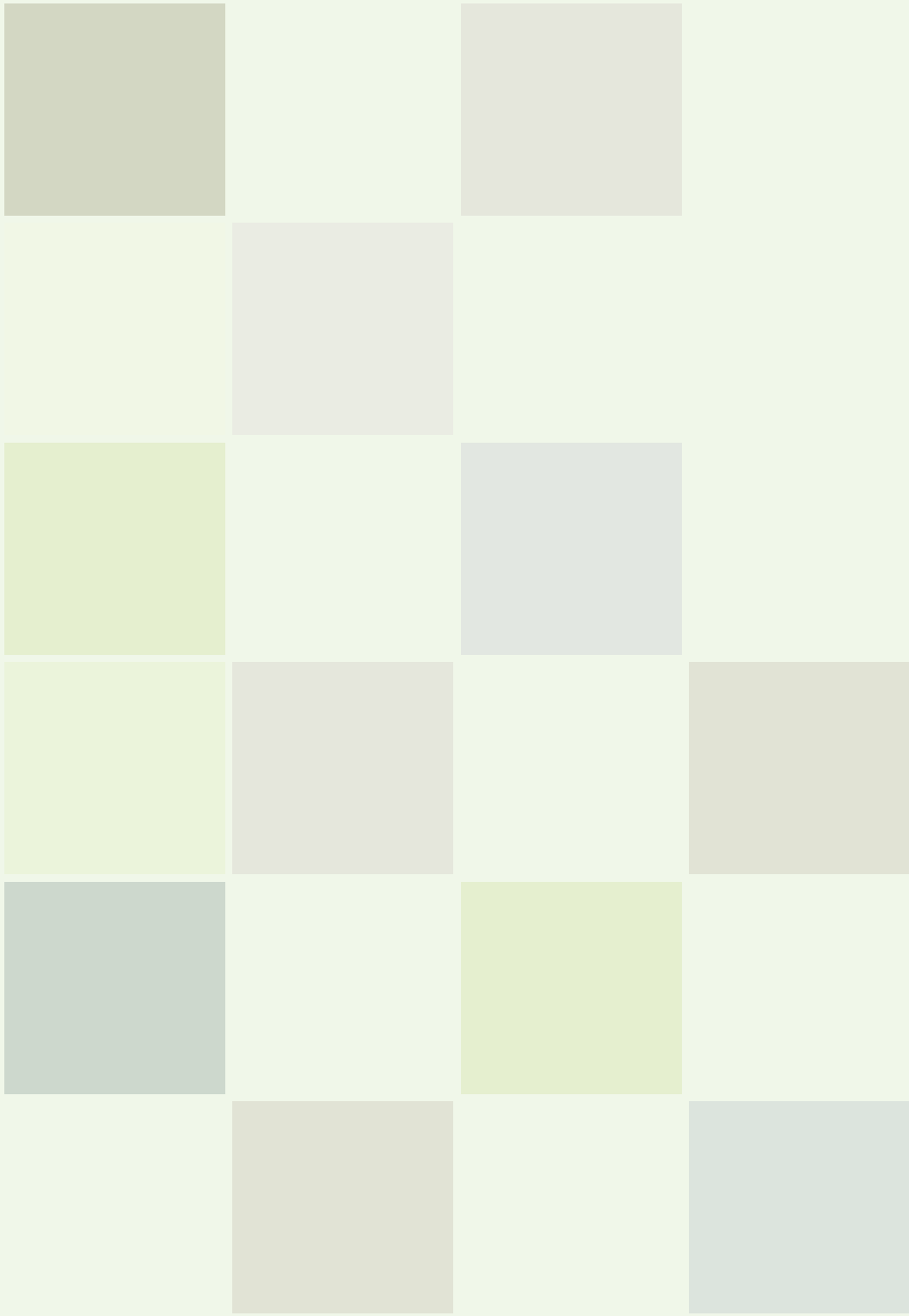
Faculty of Agricultural and Food Sciences

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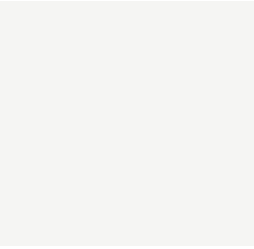
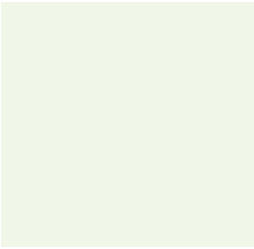
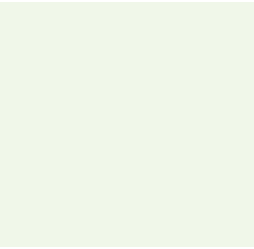
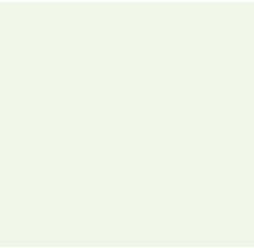
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I. Office of the Dean



A. Non-Academic Personnel

Nine non-academic employees serve at the Dean's office as per table1 below:

Table 1: Non-Academic Personnel

Name	Title
Al Ashi, Dania	System Administrator
Saadah Mina	Assistant to the Dean (from November 1, 2013-January 24, 2014)
Charbaji, Suzanne	Assistant to the Dean (from June 2, 2014)
Haddad, Tharwat	Students Record Officer
Haidar, Imad	Junior Clerk
Houri, Laila	Financial Officer
Khoury, Wafa	Executive Officer
Koubayssi, Rabia	Assistant for Student Services
Nakib, Nisreen	Secretary
Zeidan, Maya	Program Review and Accreditation Officer

B. Standing Committees

The Administrative Committee

Prepared by Wafa Khoury, Executive Officer

Membership

Nahla Hwalla, Chairperson
Hilal Dbouk
Shady Hamadeh
Zeina Kassaify
Salma Talhouk

Actions

The committee held thirteen meetings throughout 2013-2014, and the following actions were taken:

1. Food Security and Policy Education Program (FOSPEP)

The FOSPEP was discussed, and the committee agreed to have the administrative placement of the FOSPEP under the FAFS Dean's Office.

2. FAFS Reserch Seed Funding (RSF) Guidelines

The newly developed guidelines for the FAFS- RSF were presented and approved.

3. Capital Budget

The committee approved priority requests submitted by FAFS departments and AREC for the capital budget 2014–2015.

4. Graduate Assistants

The committee approved the appointment of graduate assistants in the various FAFS departments for the fall, spring, and summer terms.

5. Funding Priority for USAID ASHA Grant

A staff member from OGC presented to the committee the criteria for USAID-ASHA grant and the process for internal selection among AUB proposals.

6. AREC

- AREC 2014-2018 Strategic Plan was presented by the AREC Director
- Two new agreements with ICARDA for the provision of additional land and facilities for research purposes as well as the establishment of three additional Gene Bank rooms, were approved.
- Student Liability Waiver for AREC students was disucssed, and AUB student Affairs Office was aksed to provide clarification regarding the implementation of the student waiver guidelines and policies

The Advisory Committee

Prepared by Wafa Khoury, Executive Officer

Membership

Nahla Hwalla, Chairperson
Youssef Abou Jawdeh
Mohammad Farran
Mostapha Haidar
Salma Talhouk
Imad Toufeili
Rami Zurayk

Actions

The committee held fifteen meetings throughout the period from September 1, 2013 to August 31, 2014. The following actions were taken:

1. *Faculty Research Leave*

The committee approved the following applications: fifteen short term faculty development grants; one junior faculty research leave; one long term faculty development leave; one periodic paid research leave; one leave without pay; and thirty special leaves with pay.

2. *New Appointments*

- The committee recommended the recruitment of five full-time faculty members for the academic year 2013–2014 and the fall semester 2014–2015:
- At the NFSC department: one associate professor in Biostatistics, one assistant professor in Community Nutrition, and one visiting professor in Food Microbiology; at the AGSC department: one visiting professor of Practice in Horticulture and one visiting assistant professor in Agribusiness Marketing and Management. Of these, four offers have been accepted and one has been declined.
- Departmental recommendations for part-time faculty member recruitment were considered and the committee approved the following appointments for the academic year 2013–2014 and fall semester 2014–2015: fourteen in the NFSC department; seventeen in the LDEM department, twenty eight in the AGRI department and one for the RCODE Program
- The committee approved the appointment of Dr. Rami Zurayk as chairperson of the LDEM department for a period of three years as of January 1, 2014. The committee also approved the appointment of Dr. Lara Nasreddine as chairperson of the NFSC department for a period of three years beginning fall 2014/2015.

3. *URB Visiting Scholars*

The committee approved a departmental recommendation to invite Dr. Isabelle Romieu as URB Visiting Scholar at the NFSC department for a period of one week in spring 2014.

Undergraduate Curriculum and the Undergraduate Student Academic Affairs Committee

Prepared by: Ms. Rabia Koubayssi, Assistant for Student Services

Membership

Nahla Hwalla, Chairperson
Yasser Abunaser
Ali Chalak

Mohamad Farran, Coordinator of Undergraduate Studies

Shady Hamadeh

Zeina Kassaify

Lara Nasreddine, Coordinator of Undergraduate Studies, Nutrition & Dietetics Program

Adib Saad (Faculty Representative on University Academic Development)

Salma Talhouk (Chairperson from August 31, 2013 – December 31, 2013)

Rami Zurayk (Chairperson from January 2014 to present)

Registrar's Representative

Student Representative

Rabia Koubayssi, Secretary

Actions

The committee met ten times during the academic year 2013-2014, and the following actions were taken:

1. *Approved Requirements for 2nd BS Degree in Agribusiness for Agriculture Students*

The committee approved the course requirements to be taken by Agriculture graduates wishing to pursue a 2nd BS in Agribusiness

2. *Approved course offerings and introduction of new courses*

The committee approved and modified spring, summer and fall course offerings. It also approved the following new courses:

- AVSC 260 "Introduction to Laboratory Animal Science and Management" (3 cr.) to be offered during fall 2014-2015 as elective.
- AVSC 230 "Animal Health and Diseases" (3 cr.) to be offered during fall 2014-15 as elective.

3. *Eligible students to go to AREC*

Twenty- six students from the Agriculture program were deemed eligible to go to AREC during the spring semester of 2013-2014; classes started on February 17, 2014. Twenty-eight students from the Landscape program were deemed eligible to go to AREC during the summer semester which started on May 26, 2014.

4. *Reactivation of AVSC 213, Comparative Vertebrate Anatomy*

The committee agreed to reactivate and offer the course AVSC 213 (Comparative Anatomy) during fall 2014-2015.

5. **Approved Curricular Revision of the BSc in Nutrition & Dietetics and the Nutrition & Dietetics – Coordinated Program**

The committee approved the new revised BSc curricula in Nutrition and Dietetics and the Nutrition and Dietetics – Coordinated Program effective fall 2014-2015.

6. **New Master Program – Food Security & Policy Education Program (FOSEP)**

The committee discussed the new Master's Program "Food Security & Policy Education Program" (FOSEP) and approved the following:

- The Diploma in Food Security
- The Master's Program and Executive Master in Food Security
- Changing the name from Food Security and Policy Education Program to Food Security

7. **Probation**

Based on AUB probation rules and regulations, the committee acted to drop six students during the academic year 2013-2014: eight students were placed on strict probation, and three students were removed from probation.

8. **Awarding BS degrees**

The committee recommended to the Faculty to award BS degrees to 115 students distributed as follows: 27 in Nutrition and Dietetics, 15 in Nutrition and Dietetics – Coordinated Program, 23 in Food Science and Management, 21 in Landscape Design and Eco-Management and Diploma of *Ingenieur Agricole*, 16 in Agriculture and Diploma of *Ingenieur Agricole*, and 13 in Agribusiness.

The Undergraduate Admissions Committee

Prepared by: Ms. Tharwat Haddad, Student Records Officer

Membership

Nahla Hwalla, Chairperson
Mohamad Abiad (Faculty representative on University Admissions Committee)
Mohammad Farran
Hadi Jaafar
Salma Talhouk
Admission's representative
Registrar's representative

Student representative
Tharwat Haddad, Secretary

Actions

The committee held two meetings during the academic year 2013-2014 and acted on the following:

Acceptance of Transfer Students

The committee accepted a total of 154 transfer students from within AUB as well as from other universities:

- During the spring semester 2013-2014, a total of thirty-five transfer students were accepted, 20 of whom have registered.
- During the fall semester 2014-2015, a total of eighty-four transfer students were accepted, 34 of whom have registered.

The Graduate Studies Committee

Prepared by: Ms. Rabia Koubayssi, Assistant for Student Services

Membership:

Nahla Hwalla (Chairperson)
Mohamad Abiad (Faculty Representative on the Board of Graduate Studies)
Elie Barbour
Hadi Jaafar
Farah Naja
Imad Toufeili (Coordinator for Graduate Studies)
Maria Gabriella Trovato
Admission's representative
Registrar's representative
Student representative
Rabia Koubayssi (Secretary)

Actions:

The committee met nine times during the academic year 2013-2014, and acted on the following:

1. **Program of study and thesis titles**

The committee reviewed and approved the program of study and thesis titles of thirty-one students distributed as follows: 16 from NUTR; 4 from FTCH; 3 from ECOM; 1 from ANML; 1 from AGECE; 2 from POSC; 1 from PLPT; and 3 from PLSC.

2. Acceptance of graduate students

The committee accepted sixty four students out of 113 applicants. Of the accepted candidates, 23 students enrolled as follows: 4 Nutrition; 3 Food Technology; 4 Ecosystem Management; 5 Plant Protection; 1 Irrigation; 1 Agricultural Economics; 1 Plant Science; and 4 Animal Science.

3. Summer applicants

The committee discussed summer applications and decided not to accept summer applicants effective summer 2014-2015 since courses are not offered in the summer term.

4. Petitions

The committee acted on eight petitions from students, the majority of which included: changing from thesis to non-thesis; changing status from prospective graduate to regular graduate; extending residency; conducting comprehensive exam via Skype; considering a graduate application; and registering 12 credits during summer.

5. Proposal for MS in Environmental Studies

Dr. Zurayk briefed the committee on the new proposal for the Master of Environmental Studies degree to be offered by the Division of University Interdisciplinary Program (DUIP). Comments and suggestions were made by the committee.

6. New Elective Graduate Courses in LDEM

The committee approved the following new elective graduate courses to be offered by the LDEM department: Sustainable Landscape Planning and Management (LDEM/ENSC 634), and Political Ecology of Water (LDEM/ENSC 635).

7. Probation

The committee acted to drop one student during the academic year 2013-2014. Three students were removed from probation.

8. New Diploma and Master's Program – Food Security & Policy Education Program (FOSPEP)

The committee discussed the new Master's Program Food Security & Policy Education Program (FOSEP) and recommended the approval of the following:

- The Diploma in Food Security effective summer 2014-15
- The Master's Program and Executive Master in Food Security

9. Awarding the MS degree

The committee recommended that the Faculty award the MS degree to thirty-four students in their respective majors: 13 in Nutrition; 9 in Food Technology; 4 in Ecosystem Management; 2 in Poultry Science ; 2 in Plant Science; 1 in Irrigation; 1 in Animal Science; and 1 in Plant Protection.

The Research Committee

Prepared by: Dr. Elie Barbour, AGRI Professor

Membership:

Hadi Jaafar
Elie Barbour , Chairperson
Farah Naja
Rami Zurayk

The Research Committee held several meetings during the academic year 2013-2014. The Minutes of Meetings recorded the following actions:

1. Establishing the criterion for evaluation of the research proposals submitted by the faculty members at FAFS, and getting the approval of the Administrative Committee.
2. Approving the research proposals of FAFS before submittal to the Lebanese National Council for Scientific Research (LNCSR).
3. Approval of the renewal of URB-funded projects.
4. Evaluating the new FAFS-research proposals, based on the approved criterion that includes the evaluation of external reviewers, before their submission to the Dean's Office for funding by the URB.
5. Evaluating the research papers submitted by faculty members at FAFS for Rebeiz Award.

The Student Affairs Committee

Prepared by: Ms. Tharwat Haddad, Student Records Officer

Membership

Zeina Kassaify, Chairperson
Yaser Abunaser
Elie Barbour
Mustafa Haidar

Lara Nasreddine
Student Affairs representative
Student representative
Tharwat Haddad, Secretary

The committee met two times between the period of September , 2013 until August 31, 2014, and voted on several items. The committee discussed disciplinary actions and FAFS awards, and the following recommendations were made to the Dean:

1. *Disciplinary Actions*

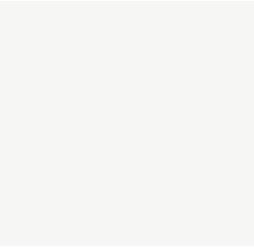
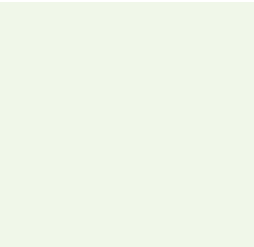
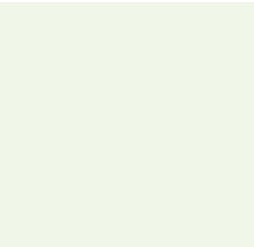
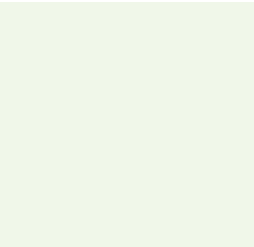
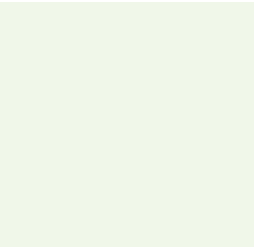
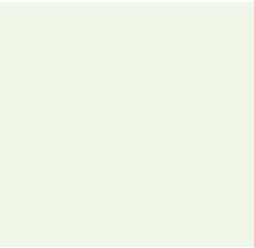
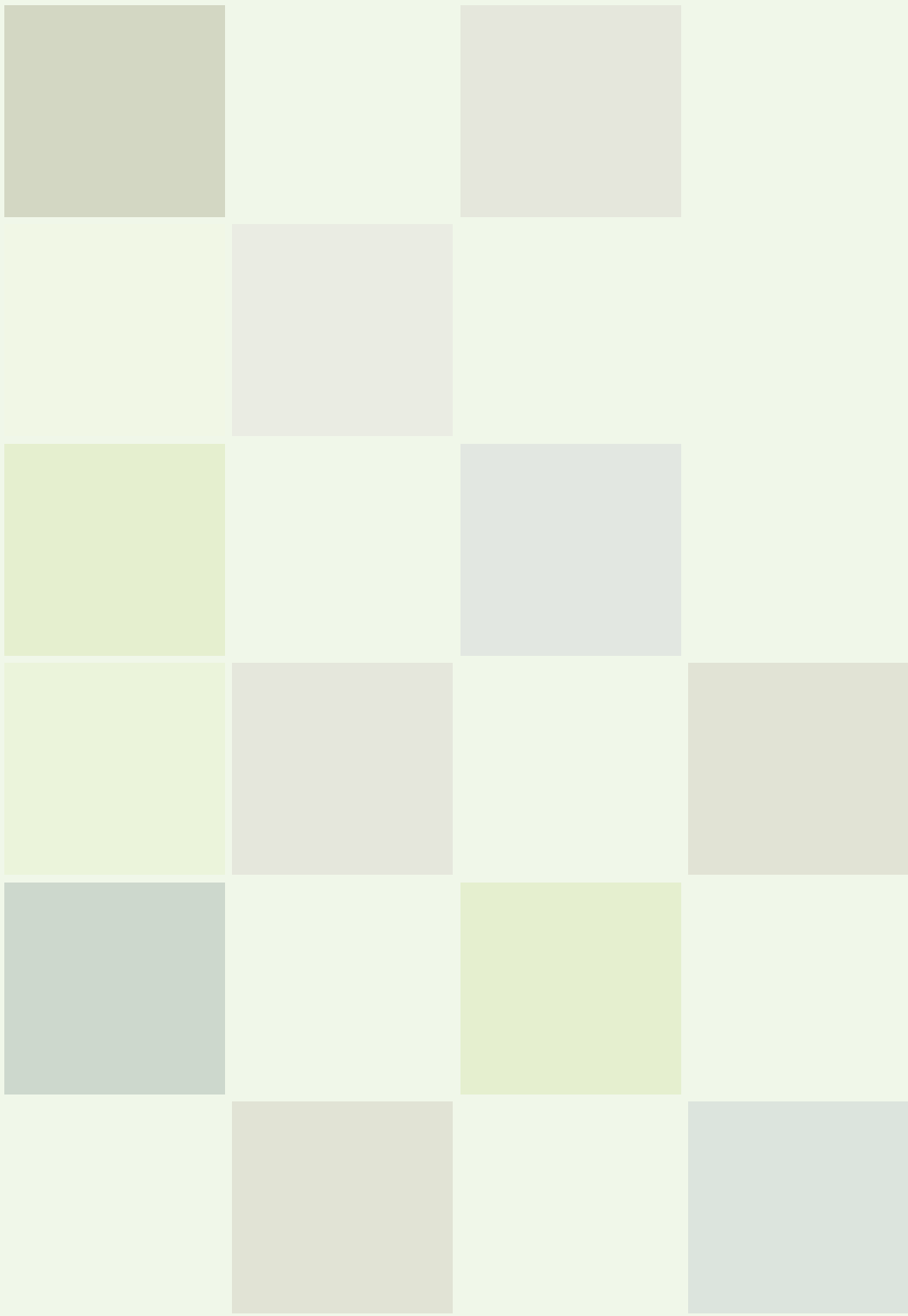
- The FAFS Student Affairs Committee voted to deny the accusation of cheating against undergraduate student and to decline the request for a disciplinary action due to lack of physical evidence and absence of testimonies by witnesses.
- The FAFS Student Affairs Committee recommended to the Dean that three undergraduate students be given a Dean's Warning.

2. *FAFS Awards*

The committee recommended the following students to receive FAFS awards:

- **Joana Haidar Award**
The committee selected **Ms. Narie Havatian** for this award.
- **Edgcombe Award**
The committee selected **Mr. Mohammad Demachkieh** for this award.
- **Kashadurian Award**
The committee selected **Mr. Muhammad Murtada** for this award.
- **Abdul Hadi Debs Award**
The committee recommended **Mr. Omar Dib**, Food Technology graduate and **Mr. Omar Aridi**, LDEM undergraduate to receive this award.
- **Dean Thomas Thuserland Prize for Graduate Excellence**
The committee approved to award **Mr. Elie Shdeed**, Plant Science graduate, the Dean Thomas Sutherland Prize.
- **Dean Nuhad Dagher FAFS Graduate Student Award:**
The committee recommended **Mr. George Nassif**, Poultry Science graduate to receive this award.
- **Penrose Award**
An e-mail was sent to the departmental chairpersons to nominate candidates for this award. Only two candidates were nominated by the Nutrition and Food Sciences department, **Ms. Linda Said**, undergraduate Nutrition and Dietetics-Coordinator Program and **Ms. Cherine Fawaz**, undergraduate

Food Science and Management. After reviewing the records and the presentation of the nominees, candidates' performances were graded by the committee (from 1 to 5), then the total scores were calculated. Based on the highest grade received, the committee recommended to the FAFS faculty to grant the Penrose Award to Ms. Linda Said. The faculty voted for Ms. Linda Said.



II. The Faculty

A. Academic Matters

Faculty Recruitment and Count

The total number of Faculty Full Time Equivalent (FTE's) for the academic year 2013-2014 was 39.95, of which twenty five were full-time faculty of professorial rank (11 professors, 1 visiting professor, 5 associate professors and 8 assistant professors).

During the academic year 2013-2014, FAFS advanced its recruitment activities by advertising for five professorial lines (Agribusiness; Sports and Clinical Nutrition; Biostatistics and Landscape Architecture). Of these, one was filled at the AGRI (Visiting Assistant Professor for the academic year 2014-2015).

Faculty Affairs

FAFS hosted the inaugural Aana Prizes in Agribusiness on May 19, 2014. The Aana Prizes recognize outstanding achievement by agribusiness students at AUB in the categories of Benefit to Community and Innovation, and encourage students to launch careers in the field following their studies. During its annual gala dinner in November, the WAAAU B FAFS Chapter honored four alumni for their professional achievements, they are: Mr. Fuad Fleifil and Drs. Nadim Khouri, Rabi Mohtar, and Robert Rouda.

International Teaching Collaboration: Simultaneous overseas teaching has been launched for the first time at FAFS. The joint face to face via internet teaching exercise was led by Dr. Yaser Abunnasr from the LDEM department at AUB and Dr. Jack Ahern from the Landscape Architecture and Regional Planning Department at UMASS Amherst.

Published Papers: A total of fifty- two papers were published in international refereed journals: 21 in NFSC, 25 in AGSI and 6 in LDEM. The overall trend for publications per faculty member is 2.08, which is higher than that of last year (1.29).

Administrative Restructuring: At the administrative level, the departments of Agricultural Sciences and Animal and Veterinary Sciences were merged into the department of Agriculture. This merger will:

1. Provide better visibility for students, funding, research and services.
2. Improve efficiency in using human, financial and physical resources.
3. Create a critical mass of faculty for research synergy.

Research Grants and Service Contracts: During this period, FAFS faculty members were successful in attracting research funding from internal, local, regional and international agencies for the total amount of \$1,810,156. Grants awarded by Nestle Middle East amounted to 50% of the total for projects headed by Dr. Hwalla in the

field of Nutrition research and awareness. The remainder is divided among FAFS departments. ICARDA's land rent contract amounted to \$108,176.5, while UNIFERT's land rent contract reached the amount of \$30,000.

Accreditation, Program Reviews and New Programs

The undergraduate Nutrition and Dietetics Coordinated Program (NDCP) was accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) in November 2013. The NDCP is the first and only nutrition program in the entire Middle East to obtain a U.S. accreditation and the third in the world to receive accreditation outside the U.S. This prestigious international recognition of the NDCP is a significant compliment to the didactic Nutrition and Dietetics track at NFSC, which has successfully completed an external review last year.

The AGRI department finalized a self-study of its Agriculture Program, and external reviewers conducted an on-site assessment in February 2014. The reviewers' exit report was submitted to the Provost, and final recommendations by the University's Academic Assessment Unit are currently being addressed by the department.

BLA: The LDEM department has submitted a self-study of its BLA Program to NYSED as part of the registration requirements in New York State.

At the academic level, and in line with the Faculty's strategic initiative for establishing new programs that address issues of local and global relevance, the new MS in Rural Community and Development (RCODE) program secured NYSED registration and will be launched in fall 2014-2015.

The NFSC department developed two proposals for undergraduate degrees; the first one in Food Engineering that will allow graduates to register at the Syndicate of Engineers, and the second in Food Science that will qualify graduates for membership in the International Food Technologists Organization and certification from the International Union of Food Science and Technology.

FAFS is also developing three new graduate programs, including an inter-faculty Doctor in Veterinary Medicine program through a joint task force with the Faculty of Medicine, and a Master in Landscape Architecture at the LDEM department. In addition, the Faculty approved the proposal for a Master of Science in Food Security. The program will be launched once University approvals and NYSED registration are complete.

Visibility and Advancement

Visibility

Dr. Salma Talhouk was appointed as Associate Dean as of January 2014 to strengthen FAFS visibility. Since her appointment, Dr. Talhouk has developed comprehensive strategic priority themes for the Faculty (Food security, Environmental resilience and Nutrition for health) which received faculty wide consensus following two faculty retreats. Dr. Talhouk has developed FAFS working relations by relaying FAFS strategic orientation to the offices of communication, advancement, and alumni affairs as ground preparation for improved visibility and fundraising ability. She has also launched the Faculty e-newsletter.

Advancement, Fund Raising and Endowment Funds

FAFS is working closely with the Office of Advancement in support of the University's fundraising campaign for Wing B. Furthermore, fundraising opportunities are being pursued in collaboration with the Office of Advancement to support FAFS Food Security Program, the development of FAFS ECO-UNIT, and the establishment of a biotechnology laboratory.

Recognition

The following faculty members received awards for their professional achievements:

The research entitled "Dietary patterns and odds of type 2 diabetes in Beirut, Lebanon: A case-control study" authored by Drs. Farah Naja, Nahla Hwalla, Leila Itani, Maya Salem, Sami Azar (Faculty of Medicine) and Maya Nabhani Zeidan, received the 2012 C.A. and C.C. Rebeiz Award, that is dedicated for promoting research at FAFS.

Dr. Mohamad Farran received the 2013 CNRS Research Excellence Award on food security and safety.

Dean Hwalla was awarded the 2014 Susan Bulkeley Butler Leadership Excellence Award by the International Breast Cancer and Nutrition group at Purdue University.

Dr. Jala Makhzoumi, Associate to the LDEM department, was awarded the 2013 Tamayouz Award for outstanding women architects in Iraq in October 2013.

FAFS Brown Bag Seminar

Dr. Hadi Jaafar gave a presentation on "Food security from space: A geospatial analysis of the effect of Syrian conflict on agriculture" on March 7, 2014.

Seminars

In line with FAFS's global themes, seminars, workshops, and symposia were organized addressing food safety, food security, and nutrition and non-communicable diseases. In collaboration with the International Breast Cancer and Nutrition (Purdue University), the NFSC department organized the 4th IBCN symposium on "Genes, the Environment and Breast Cancer Risk" and hosted a day of public lectures entitled "Prevent and Treat Breast Cancer: the Role of Nutrition". The AGSI department hosted Professor Emeritus Dr. Robert Zimdahl (from Colorado State University) to present a lecture on "Ethics in Agricultural Science". In collaboration with colleagues from the MOPH and UNICEF, Dr. Lamis Jomaa of the NFSC department, organized a training workshop on the "Optimal Implementation of the Food-Based Dietary Guidelines for Lebanese Adults" targeting primary health care providers in Lebanon. Through a project entitled "Impact of Population Growth and Climate Change in Lebanon and Egypt on Water Scarcity, Agricultural Output and Food Security," Dr. Nadim Farajalla of the LDEM department, organized two expert consultation workshops in collaboration with the Issam Fares Institute.

Visiting URB Scholar Dr. Isabelle Romieu, Head of the Nutritional Epidemiology Group at the International Agency for Research on Cancer, visited the NFSC department where she presented three lectures entitled "Can we prevent breast cancer: what the evidence shows", "Cancer prevention strategies in relation to the obesity epidemic: Research priorities", and "Fatty acids and breast cancer".

Faculty meetings

Prepared by: Dr. H. Jaafar, Assistant Professor

During the period September 1st, 2013–August 31st, 2014, four regular faculty meetings were held at FAFS, and the following actions were taken:

1. Voting of Degrees

Faculty members 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, Landscape Design and Eco-Management and Diploma of Ingenieur Agricole, Veterinary Sciences and Master of Sciences for students as recommended by the representatives from each department, effective September 2013, February 2014, and June 2014 consecutively.

2. Awards:

Faculty members voted on the recommendation of the Student Affairs Committee to grant FAFS awards to the following students:

- Edgcombe Memorial Prize: Mohammad Demachkieh
- Kashaduran Award: Muhammad Murtada
- The Joana Haidar Award: Narie Havatian
- Dean Thomas Sutherland Prizes: Elie Shdeed
- Penrose Award: Linda Said
- Abdul Hadi Debs Endowment: Omar Dib and Omar Aridi
- Dean Nuhad Dagher FAFS Graduate Student Award: George Nassif

3. *Curricular Revision:*

The Faculty approved the revised curricula of the B.Sc. in Nutrition and Dietetics and the Nutrition and Dietetics-Coordinated Program.

B. Student Statistics

Student Enrollment (2013-2014):

The total undergraduate student enrolment in the Faculty for the year 2013-2014 was 553 distributed as follows: 101 in Agriculture, 178 in Nutrition and Dietetics, 30 in Nutrition and Dietetics-Coordinated Program, 76 in Landscape Design and Ecosystem Management, 95 in Food Science and Management, and 73 in Agribusiness. The undergraduate enrolment in 2013-2014 was approximately the same as in 2012-2013.

The total graduate student enrolment in 2013-2014 was 96 and 14% lower than that of 2012-2013 (111 students). This was mainly due to a drop in the number of newly admitted students. The vast majority of the graduate enrolment was in the NFSC department (55) and the remaining were distributed among AGSC (19), LDEM (14) and AVSC (8) departments.

Table 2: Total Student Enrolment in various FAFS programs during the academic year 2013-2014

Undergraduate Enrolment	AY 2012-2013
Nutrition and Dietetics (NTDT)	178
Nutrition and Dietetics – Coordinated Program (NTDT-CP)*	30
Food Science and Management (FSMT)	76
Agriculture (AGRI)*	101
Agribusiness (AGBU)	73
Landscape Design and Eco-Management Ecosystem (LDEM)*	95
Total Undergraduate	553
Graduate Enrolment	
Nutrition (NUTR)	35
Food Technology (FTCH)	20
Agricultural Economics (AGEC)	4
Irrigation (IRRG)	2
Plant Protection (PLPT)	7
Plant Science (PLSC)	6
Animal Science (ANML)	4
Poultry Science (POSC)	4
Ecosystem Management (ECOM)	14
Total Graduate	96
Total (UG & GR)	649

* Agriculture, Landscape Design & Eco-Management and Nutrition & Dietetics – Coordinated Program are 4 years programs

Historical Perspective (2013-2014):

Undergraduate enrolment decreased from 658 in the AY 2009-2010 to 553 in the AY 2013-2014 due to the low enrolment of newly admitted students and the increase in the number of students transferring from the Faculty at the Junior and Senior levels. The undergraduate enrolment in the past 5 years is shown in Table 5.

Table 3: Number of Enroled Undergraduate FAFS Students for the Last Five Academic Years

Program	09-10	10-11	11-12	12-13	13-14
NTDT	184	137	122	146	178
NTDT-CP	17	20	18	14	30
FSMT	111	95	81	73	76
AGRI (4 years)	177	139	117	118	101
AGBU	62	55	91	82	73
LDEM (4 years)	98	109	101	103	95
VTSC	9	8	11	2	0
Total Undergraduate	658	563	541	538	553

Graduate enrolment decreased from 126 students in the AY 2009-2010 to 96 in the AY 2013-2014. This was mainly due to a drop in the number of newly admitted students. The graduate enrolment in the past 5 years is shown in Table 6.

Table 4: Number of Enroled Graduate FAFS Students for the Last Five Academic Years

Program	09-10	10-11	11-12	12-13	13-14
NUTR	61	53	57	48	35
FTCH	32	33	40	31	20
AGEC	4	6	4	3	4
IRRG	5	3	4	3	2
PLPT	5	3	5	3	7
PLSC	2	2	2	7	6
SOIL	2	2	2	-	-
ECOM	10	9	2	9	4
ANML	3	3	3	2	4
POSC	2	1	13	5	14
Total Graduate	126	115	132	111	96

Student Admissions (2013-2014):

Undergraduate New Applicants:

During the academic year 2013-2014, a total of 2291 new applications were received at FAFS, of which 38% were accepted and 14% of the accepted enrolled. In the fall semester of 2013-2014, the yield of admittance was 13% (104 enrolled out of 831 accepted students), whereas in the spring semester of 2013-2014, the yield of admittance was 33% (14 enrolled out of 43 accepted students). The number of enroled undergraduate students was 118 and 30% lower than that in 2012-2013 (168 students). This decrease was mainly in the AGRI, LDEM and AGBU programs and might have been caused by the political instability in the region. Table 7 shows the numbers and percentages of undergraduate new students who applied to the different FAFS programs, those who were admitted and those who enroled in fall and spring 2013-2014.

Table 5: Number of New Undergraduate Applicants, Admitted and Enroled during the Academic Year 2013-2014

First Semester 2012/2013				
Program	Applications	Admissions	Enrolment	% Yield
NTDT	645	253	52	21%
FSMT	364	119	14	12%
AGRI	411	180	17	9%
AGBU	380	142	11	8%
LDEM	337	137	10	7%
Total	2137	831	104	13%
Second Semester 2013/2014				
Program	Applications	Admissions	Enrolment	% Yield
NTDT	48	9	5	56%
FSMT	31	16	3	19%
AGRI	30	7	2	29%
AGBU	26	7	2	29%
LDEM	19	4	2	50%
Total	154	43	14	33%

Undergraduate Transfer Applicants:

During the academic year 2013-2014, a total of 294 transfer applications were received at FAFS, of which 154 (52%) were accepted with 60 (39%) of those accepted having enrolled. Table 8 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 2013-2014.

Table 6: Number of Undergraduates (Second Degree and Transfer) Applicants, Admitted and Enrolled during the Academic Year 2013-2014

First Semester 2013/2014				
Program	Applications	Admissions	Enrolment	% Yield
NTDT	58	30	13	43%
FSMT	44	34	8	24%
AGRI	20	17	6	35%
AGBU	45	26	4	15%
LDEM	49	12	9	75%
Total	216	119	40	34%
Second Semester 2013/2014				
Program	Applications	Admissions	Enrolment	% Yield
NTDT	20	6	4	67%
FSMT	13	8	2	25%
AGRI	12	9	6	67%
AGBU	21	10	6	60%
LDEM	12	2	2	100%
Total	78	35	20	57%

Graduate Applicants:

During the academic year 2013-2014, a total of 113 graduate applications were received at FAFS, of which 64 (57%) were accepted and 23 (36%) of those accepted enrolled. The yield was higher than that of 2012-2013(30%). Table 9 shows the numbers and percentages of graduate students who applied to FAFS, those who were admitted and those who enrolled.

Table 7: Number of Graduate Applications and Admissions

Fall, Spring and Summer 2013-2014					
Program	Applications	Admissions	% Admitted out of applicants	Enrolment	% Yield
NUTR	45	21	47%	4	19%
FTCH	25	14	56%	3	21%
AGEC	4	2	50%	1	50%
IRRG	3	1	33%	1	100%
PLPT	6	6	100%	5	83%
PLSC	6	4	67%	1	25%
ECOM	16	11	69%	4	36%
ANML	6	5	83%	4	80%
POSC	0	0	0%	0	0%
RCODE	2	0	0%	0	0%
Total	113	64	57%	23	36%

Graduation (2013-2014):

FAFS graduated 115 undergraduate students in the AY 2013-2014 distributed over the different majors as follows: Nutrition and Dietetics (27), Nutrition and Dietetics – Coordinated Program (15), Food Science and Management (23), Landscape Design and Ecosystem Management (21), Agriculture (13) and Agribusiness (16).

FAFS also graduated 32 graduate students distributed over the different programs as follows: Nutrition (12), Food Technology (11), Ecosystem Management (2), Irrigation (1), Plant Protection (3), Plant Sciences (1), Animal Science (1) and Poultry Science (1). The average number of M.S. graduates over the last five years was 30 students. Tables 10 and 11 show the distribution of graduated students in the different disciplines at FAFS during the past five years.

Table 8: Number of Graduated FAFS Undergraduate Students for the Last Five Academic Years

Major	09-10	10-11	11-12	12-13	13-14
NTDT	49	41	24	24	27
NTDT-CP	17	20	18	14	15
FSMT	26	32	30	18	23
AGRI	9	16	29	10	13
AGBU	1	4	20	17	16
LDEM	20	18	23	24	21
VTSC	n.a.	1	1	3	-
Total Undergraduate	122	132	145	110	115

Table 9: Number of Graduated FAFS Graduate Students for the Last Five Academic Years

Major	09-10	10-11	11-12	12-13	13-14
NUTR	13	16	15	12	13
FTCH	9	3	13	11	9
AGEC	1	1	1	0	1
IRRG	0	3	0	1	1
PLPT	2	0	1	3	1
PLSC	0	0	0	1	2
SOIL	0	0	2	0	0
ECOM	1	0	3	2	4
ANML	1	2	0	1	1
POSC	1	0	0	1	1
Total Graduate	28	25	35	32	33

C. Centers and Units

I. Agricultural Research and Education Center (AREC)

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

Support Staff

AREC Administration

Dbouk, Hilal	Director
El-Haddad, Nicolas	Farm & Facilities Manager
Yazbeck, Mirna	Secretary
Hajj Hasan, Hussein	Sales Attendant/Store Keeper
Yazbeck, Bilal	Driver/Purchaser
Sleiman, Mona	Research Assistant

AREC Physical Plant

Ghosn, Hisham	Gateman/Watchman
Haidar, Naji	Assistant Mechanic
Hajj Hasan, Ali G.	Gateman/Watchman
Hajj Hasan, Khayrieh	Maid
Hajj Hasan, Mohamad	Gateman/Watchman
Kak, Mohamad	Gateman/Watchman
Kayyal, Ali	Food Service Worker
Masri, Ali	Gateman/Watchman
Mouna, Hasan	Day &/or Night Attendant (Elect. & Boiler)
Mussawi, Kuzhayyah	Gateman/Watchman
Nasser, Haidar	Janitor
Rumeh, Abdel-Karim	Farm Attendant
Shukr, Khalil	Food Service Worker
Sindian, Ali	Head Mechanic
Zein, Bassam	Mason

AREC Production

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

AREC Library

Sleiman, Samar	Library Assistant II
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AREC Clinic

Sayyed Ahmad, Mariam	Staff Nurse
Yazbek, Mona	Clinical Assistant

Highlights:

The following actions were taken during the academic year 2013-2014:

- Installing a new prefabricated room in the field for the watchmen for better control of AREC land
- Miscellaneous projects and activities implemented by this year students
- Making an agreement with Ms. Yasmina Wakim for a project entitled “Saffron Production as a Sustainable Crop in the Bekaa Valley”
- Supplying the AUBMC, Carla’s Good Food diet Center, Healthy Basket, Casper & Gambini’s with AREC produce. The supply stopped after selling the milking cows and the pullets
- Allocating more land and more facilities for ICARDA trials

- ICARDA renovated 2 allocated facilities, the “old sheep barn” and the “chemical store”
- As per AUB’s directive, the production activities stopped and all the animals, as well as the egg-type pullets, were sold according to AUB rules and regulations
- Selling the unnecessary vehicles according to AUB rules and regulations
- ICARDA Board of Trustees visited AREC and met with Dean Hwalla to discuss future collaboration between AUB and ICARDA
- President Peter Dorman, Dean Nahla Hwalla, and AUB Board of Trustees visited AREC
- Water harvesting project
- Unifert field day was also held with the participation of many agricultural engineers and farmers from different countries
- Many national and international guests visited AREC
- Improving AREC landscape by establishing more flowers and turf gardens
- Completing the installation of IP cameras for better security control
- Remodeling and refurbishing the Main Lounge through the generous support of the President’s Club
- Repairing the flat panels of the Men’s dormitory solar system and changing the display of both men and women’s solar panels for better efficiency
- Designing a new irrigation network for AREC plots and installing 7 submersible pumps for efficient water collection in pools
- Purchasing a new medium- sized generator to replace the 545 kva and the 200 kva and signing a maintenance agreement with PowerMET company for 1 year
- Beyond this, a Lebanese based non-governmental organization with a mission to help the Syrian refugees in the current crisis, was based at AREC. Many training workshops were held benefiting from the teaching facilities

Personnel:

- Mr. Hilal Dbouk resigned from his position as AREC Director
- AUB terminates the contract of Mr. Fouad Hajj Hassan (AREC boiler operator/pipe fitter) due to a bad behavior that contradicts with AUB policy

- Mr. Shehadeh Hajj Hassan , Mr. Abdallah Abou Eid, and Mr. Mohamad Kak got early retirement
- The contract of Mrs. Mona Sleiman was renewed for another year

Teaching:

- Twenty seven AGR III and Twenty eight LDEM III students continued their spring and summer sessions at AREC
- Dr. Adib Saad accompanied with 20 students visited AREC (AGSC 201)
- Acquainting the students with the different practical farm operations on daily basis
- Preparing the necessary tools for different labs
- Assisting students in the implementation of their projects
- Demonstrating the different systems of engines and the use of farm machinery
- Providing assistance to the students in the implementation of their projects
- Supplying the mechanical engineering students with weather and production data for the renewable energy projects that are implemented at AREC
- Providing accommodation and teaching facilities to AUB visiting-professors and students.
- Helping the students in their Master projects

Research Funding:

- Rehabilitating and remodeling the conventional poultry house by installing a bio-digester and solar panels in order to be operated by alternative energy. The project is funded by ESCWA
- Rain water harvesting project was executed for the first time at AREC by 4 mechanical engineer students

Services:

- AREC provided assistance to faculty members and graduate students in the following research projects:
 - Management of Orobanche Ramosa in Potato
 - Comparison of No-till potato production to conventional practices using different treatments of water and straw

- Determination of the water requirements of thyme grown in the Bekaa valley
- Several workshops and training courses were carried out at AREC that aimed at community development and outreach:
 - Dr. Obeid – Dareen Shatila organized a three- day training workshop for forty participants on “Nutrition in Emergencies”
 - Civic Engagement and Community Service (CCECS) students spent four days at AREC and achieved three projects: constructing a base for the guard room, plastering the cracks of the poultry house, and installing irrigation system at the entrance
 - Four-day training courses on conservation agriculture took place at AREC with the participation of forty-four students from four Lebanese agricultural faculties
- AREC provided assistance to ICARDA in the different fields of cultural practices as well as the maintenance of the allocated facilities
- AREC started providing agricultural services to the farmers in the neighboring village, such as land preparation, chemical application and harvesting

Strategic Challenges:

- Rehabilitating and remodeling the conventional poultry house by installing a bio-digester and solar panels in order to be operated by alternative energy
- Designing a new irrigation network for AREC plots and installing seven submersible pumps for efficient water collection in pools

II. Environment and Sustainable Development Unit (ESDU)

Prepared by:

Dr. Salwa Tohmé Tawak, Research Associate

Dr. Shadi Hamadeh, Chairperson and Professor

Personnel

Shadi Hamadeh, ESDU Director

Diana Marroush Abi-Said, Administrative-Financial Officer

Mounir Abi-Said, Training and Organizational Development Specialist

Ziad Moussa, Capacity Development and Outreach Officer

Salwa Tohmé Tawak, Knowledge Management Officer/ Training and Organizational

Development Specialist
Mabelle Chedid – Executive Officer
Dominique Anid – Health & Nutrition Officer

Highlights on ESDU activities (September 1, 2013-August 31, 2014)

During the academic year 2013–2014, ESDU implemented several projects covering a budget of 178,432 USD from private sector and different international donor agencies, mainly the International Development Research Center (IDRC).

Title	Date	Amount USD	Agency
Mainstreaming evaluation theory & practice in the MENA region: Using outcome mapping as an entry point	Sept. 2013 – Aug. 2014	\$119,883	IDRC
Establishing a food trail in the Higher Shouf and West Beqaa regions	April 16, 2014 – April 16, 2015	\$50,260	DAI – USAID
Value chain analysis of wheat landraces and wheat-based traditional food in relation to Agro-biodiversity	Sept 2, 2013- Sept 2, 2014	\$8,289.12	National Council for Scientific Research/ CNRS (joint research with Dr. Ali Chalak)

Research: “Value chain analysis of wheat landraces and wheat-based traditional food in relation to Agro-biodiversity”

The research is funded by the National Council for Scientific Research. The objective is to assess the production chain of selected local traditional food products in relation to Agro-biodiversity conservation. More specifically, the production of Borghol and Keshek is assessed in relation to the varieties of wheat landraces and the type of milk used in the process. The research will analyze the origin of (genetic) resource and the agricultural practices of wheat, the processing practices of Keshek, the types of milk used, and the marketing channels based on a survey conducted in two different regions producing Keshek in Lebanon (North-Bekaa and Shouf).

Regional Networking: “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. A competitive call for an expression of interest to host KariaNet was launched, and the ESDU was selected to be the hosting organization. ESDU is

assuming the responsibility of moderating the regional knowledge management network. This Network, inspired by ‘open access principles’, seeks to empower its members, through the use of ICT and non-ICT tools, to make knowledge available and timely accessible to farmers and practitioners involved in rural development.

Capacity Building: “Mainstreaming evaluation: Theory and practice in the MENA region”

The project is funded by IDRC and provides capacity development, small R&D grants for MENA specific evaluation research and publications, “Arabization” of evaluation methodologies and publications as well as virtual and face-to-face meeting and networking opportunities. One of the positive unintended outcomes of the project was the emergence of the first MENA Professional Association on Development Evaluation (“EvalMENA”). ESDU developed the first of its kind, the On-line Training Course on Development Evaluation in Arabic (together with EvalMENA members from Jordan, Egypt, Lebanon, Palestine and Saudi Arabia), which contributed to the scientific material and the oversight of the entire project along with the International Organization on Cooperation in Evaluation (IOCE) and the technical support of UNICEF, which has been instrumental in providing the e-learning platform. It can be accessed on: <http://www.mymande.org/elearning>.

Workshop: “Mainstreaming evaluation: Theory and practice in the MENA region”

ESDU organized in Amman, Jordan the closing workshop of the project “Mainstreaming evaluation theory and practice in the MENA region”. Eighty three participants from thirteen different nationalities attended the conference, among whom six parliamentarians representing Algeria, Egypt, Jordan, Morocco, Palestine and Tunisia. The latter had launched the MENA Parliamentary Forum on Development Evaluation. Dr. Ibrahim Seif, Jordanian Minister of Planning and International Cooperation, delivered the keynote address of the conference, stressing the role of evaluation in improving development effectiveness and evidence-based policy making.

Community Development:

“Souk O Shouf” farmers’ market design project exhibition

ESDU and the department of Landscape and Ecosystem management organized a design competition for landscape students for the implementation of a farmers’ market in Multaka el Nahreyn in the Shouf area. The exhibition was held in cooperation with the Al Shouf Cedar Society and in the presence of Mrs Nora Joumblat who presented the prizes to the first four winners of the competition.

“Souk aal Souk promoting nutrition education in universities and organic agriculture in wakf land”

This project aims at implementing a series of farmers’ markets to promote local organic and healthy products and build linkages between small-scale producers and urban residents, as well as training producers on good agricultural practices and organizational and managerial skills to sustain the market. It builds on a previously funded project by Waterfront City- Cares (Majed Al Futaim Holding) which started in 2012.

“Community-based healthy kitchens” to provide locally-produced food aid for vulnerable groups affected by the Syrian Crisis

A partnership with the International Orthodox Christian Charity (IOCC) was initiated through pilot activities to establish community kitchens where ESDU implemented trainings for women on food safety practices and managerial skills. A kitchen in Minyara, Akkar led by Syrian and Lebanese women to provide food aid was established in May 2013.

“School feeding program in Bourj Al Barajneh”

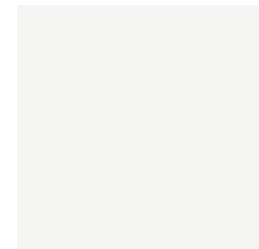
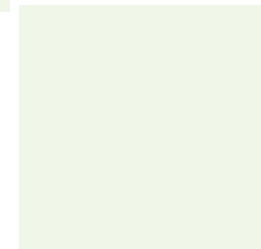
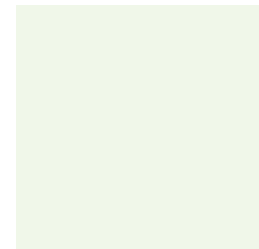
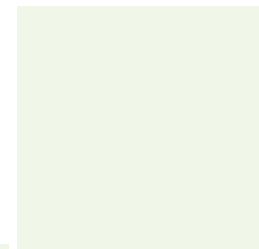
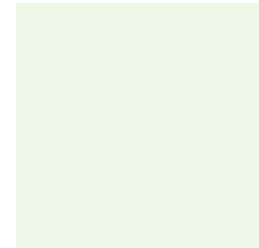
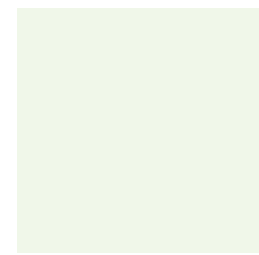
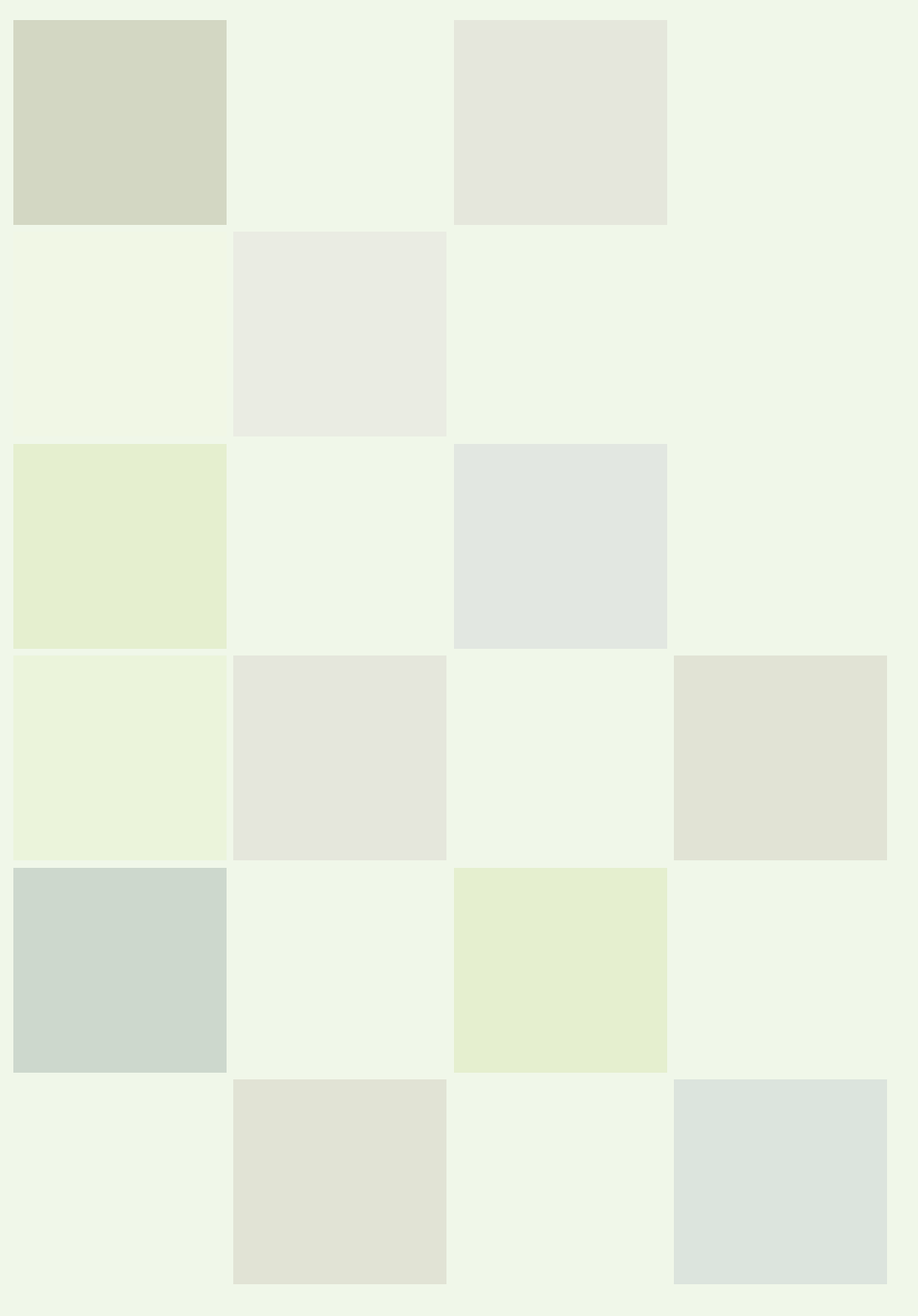
In partnership with CRPH/FHS, ESDU contributed to a school feeding program in Bourj Al Barajneh by building the capacities of women who were to lead a healthy kitchen that will be linked to schools in the camp. The project started in June 2014.

New Academic Program: “The RCODE Master of Sciences program in Rural Community Development”

ESDU under the FAFS is hosting a graduate program leading to the degree of Master of Science (MS) in Rural Community Development (RCODE, thesis or non-thesis). The RCODE program, initially developed in 2003, was updated and approved by the Faculty of Agricultural and Food Sciences and the AUB administration. It was registered at the Lebanese Ministry of Higher Education. The program was positively reviewed and evaluated by Dr. David Brown from Cornell University (Professor at the department of Development Sociology and co-Director of the Community and Regional Development Institute CaRDI at Cornell University). The RCODE was registered in New York State Education Department and launched in September 2014. FAFS is one of the few academic institutions in the MENA region to offer a rural community development program.

Strategic Challenges:

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



III. Departmental Reports

A. Department of Agricultural Sciences

Prepared by: Dr. Shadi Hamadeh, AGRI Chairman and
Mrs. Lina Jaber, Assistant to the Chairman

Highlights

The department completed the Agriculture program review process by hosting two invited reviewers for a three-day visit. The reviewers revised the old and the proposed new Agriculture curricula, visited the facilities, held group and individual meetings with faculty, students and staff. They presented their full report and recommendations to which the department and the Dean presented their detailed feedback, and the process was completed with the final recommendations of the University Review Committee.

- The merger of the Animal and Veterinary Sciences and the Agricultural Sciences departments was completed. A new department of Agriculture was formed.
- The department research committee set a research strategy for the department.
- The department decided to freeze AREC student residency for the year 2014-15 subject to continuous security situation reassessment and seeking out alternatives to students' experiential learning activities
- Dr. Susan Prattis joined the department in August 2013. She was active within the DVM Task Force in preparing a proposal for the establishment of a DVM program at AUB. She also prepared three new courses that were approved, one of which as General Education.
- Dr. Mohamad Farran received the Research Excellence Award from the CNRS for the year 2013 for the theme Food Security and Safety.
- Dr. Jad Chaaban was promoted to Associate Professor.
- Dr. Ali Chalak was on Junior Research Leave during the spring semester 2014.
- The department recruited Dr. Jamal Sawwan as a Visiting Professor of Practice for a two-year period effective January 2014.
- The department recruited Dr. Gumataw Abebe as Visiting Assistant Professor for a two year period effective August 2014.
- The department hosted Dr. Ayman Al-Ouda as recipient of the Scholar Rescue Fund effective January 2014, for one year.

- The department was active in three internally funded and twenty-one externally funded research projects.
- Faculty members produced three books/chapters in books, twenty-eight articles in peer reviewed journals, and seventeen abstracts and proceedings.
- Faculty members actively participated in international and local workshops and conferences addressing their areas of expertise.
- The department hosted a delegation from ACSAD/IFAD for one day for discussing cooperation options.
- Faculty members provided services to the public sector through participation in meetings and membership in national committees

Personnel

Full-time Faculty

Shady Hamadeh	Chairman
Adib Saad	Professor
Youssef Abou Jawdeh	Professor
Isam Bashour	Professor
Mustapha Haidar	Professor
Elie Barbour	Professor
Mohamad Farran	Professor
Jad Chaaban	Associate Professor
Ali Chalak	Assistant Professor
Hadi Jaafar	Assistant Professor
Susan Prattis	Assistant Professor
Jamal Sawwan	Visiting Professor of Practice
Rachel Bahn	Instructor

Part-time Faculty

Efat Abou Fakhr Hammad	Senior Lecturer	Fall, Spring
Youssef El Khalil	Senior Lecturer	Fall, Spring

Salwa Tawk	Senior Lecturer	Fall, Spring
Boutros Madani	Instructor	Spring
Saada Dakdouki	Instructor	Fall
Hashem El Hussein	Instructor	Fall, Spring
Rami Ollaik	Instructor	Fall, Spring, Summer
Solomon Bou Nacklie	Instructor	Spring
Hala Chahine	Instructor	Fall, Spring
Makram Bou Nassar	Instructor	Spring, Summer
Kanj Hamade	Instructor	Fall, Spring
Amer Najm	Instructor	Summer
Rawan Nassar	Instructor	Fall, Spring
Ayman Al-Ouda	Instructor	Spring

Research Assistants

Lucia Hanna	Senior Research Assistant
Lina Jaber	Senior Research Assistant
Hana Sobh	Senior Research Assistant (on grant)
Rami El Hussein	Departmental Research Assistant
Rami El Helou	Departmental Research Assistant
Nadim Rawda	Research Assistant (on grant)

Graduate Assistants

Harout Akilian	Fall 2013, Spring & Summer 2014
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Ali Msheik	Fall 2013, Spring & Summer 2014
Dina Saleh	Fall 2013, Spring 2014
Walaa Siblani	Fall 2013, Spring 2014
Samia Hamati	Fall 2013, Spring & Summer 2014
Patil Tawidian	Fall 2013, Spring 2014
Razan Dbaibo	Fall 2013, Spring 2014
Danyelle Ayyash	Spring 2014
Roger Mazloun	Spring 2014,
Zein Khraizat	Spring & Summer 2014
Michele Moawad	Spring 2014
Sandra Youssef	Spring 2014
Chadi Berhal	Spring 2014

Teaching Activities

Fall 2013–14 Undergraduate

Course	Credits	Enrolment	Instructor(s)
AGSC 201	2.0	47	A. Saad
AGSC 204	1.5	31	M. Haidar
	1.5	31	S. Dakdouki
AGSC 211	3.0	22	K. Hamade
AGSC 212	1.0	84	R. Nassar
	2.0	84	Y. Khalil
AGSC 213	3.0	10	H. El Housseini
AGSC 215	3.0	20	I. Bashour
AGSC 219	3.0	26	R. Ollaik
AGSC 220	3.0	21	M. Haidar
AGSC 221	3.0	31	E. Abou Fakhr
AGSC 232	3.0	28	Y. Abou Jawdeh
AGSC 235	2.0	10	S. Tawk
AGSC 236	3.0	19	S. Bou Nacklie
AGSC 239	0.0	28	H. Chahine
AGSC 240	0.0	9	J. Chaaban

Course	Credits	Enrolment	Instructor(s)
AGSC 241	1.0	18	Y. Doughan
	2.0	18	Y. Khalil
AGSC 248	3.0	18	K. Hamade
AGSC 292	5.0	4	J. Chaaban
AGSC 295	3.0	6	Y. Abou Jawdeh
AGSC 296	1.0	3	A. Saad
AVSC 243	3.0	22	S. Hamadeh
AVSC 271	3.0	30	M. Farran
AVSC 275	1.5	19	E. Barbour
	1.5	19	S. Prattis
AVSC 281	3.0	18	M. Farran
AVSC 279	1.5	22	E. Barbour
	1.5	22	S. Prattis

Fall 2013-14 Graduate

Course	Credits	Enrolment	Instructor(s)
AGSC 300C	3.0	1	M. Haidar
AGSC 301	1.5	8	J. Chaaban
	1.5	8	S. Hamadeh
AGSC 310	1.0	2	H. Jaafar
AGSC 311	3.0	5	Y. Abou Jawdah
AGSC 312	3.0	3	I. Bashour
AGSC 322	3.0	3	A. Saad
AVSC 307	3.0	1	M. Farran

Spring 2013-14 Undergraduate

Course	Credits	Enrolment	Instructor
AGSC 201	2.0	37	A. Saad
AGSC 202	1.5	19	I. Bashour
	1.5	19	H. Jaafar
AGSC 203	1.0	25	A. Saad
	0.5	25	M. Haidar
	0.5	25	A. Al Ouda

Course	Credits	Enrolment	Instructor
	1.0	25	E. Abou Fakhr
AGSC 210	3.0	13	S. Bou-Nacklie
AGSC 212	2.0	113	Y. Khalil
	1.0	113	R. Nassar
AGSC 213	3.0	13	H. El Housseini
AGSC 219	3.0	27	R. Ollaik
AGSC 222	1.0	26	M. Haidar
AGSC 224	3.0	26	J. Sawwan
AGSC 225	3.0	21	S. Tawk
AGSC 228	3.0	26	H. Jaafar
AGSC 229	3.0	14	B. Madani
AGSC 231	3.0	26	A. Al Ouda
AGSC 253	3.0	21	H. Chahine
AGSC 255	3.0	21	J. Chaaban
AGSC 265	3.0	12	I. Bashour
AGSC 284	3.0	26	M. Haidar
AGSC 292	1.0	18	J. Chaaban
	3.0	18	M. Bou Nassar
	1.0	18	R. Bahn
AGSC 294	3.0	6	A. Saad
AGSC 296	1.0	10	A. Saad
AVSC 220	0.75	81	E. Barbour
	2.0	81	M. Farran (coordinator)
	0.25	81	S. Prattis
AVSC 224	3.0	15	Dr. Barbour
AVSC 222	3.0	26	S. Prattis
AVSC 279	1.5	60	E. Barbour
	1.5	60	S. Prattis
AVSC 281	2.0	24	M. Farran
	1.0	24	S. Prattis

Spring 2013-14 Graduates

Course	Credits	Enrolment	Instructor
AGSC 300C	3.0	1	M. Haidar
AGSC 301	1.5	5	A. Chalak
	1.5	5	S. Hamadeh
AGSC 323	3.0	4	Y. Abou Jawdeh
AGSC 324	3.0	7	I. Bashour
AGSC 328	3.0	4	H. Jaafar
AGSC 376	3.0	9	A. Chalak
AGSC 395	1.0	2	M. Haidar
AVSC 334	3.0	4	Dr. Farran

Summer 2013-14

Course	Credits	Enrolment	Instructor
AGSC 219	3.0	10	R. Ollaik
AGSC 223	2.0	23	M. Haidar
AGSC 226	3.0	23	A. Najm
AGSC 229	3.0	10	M. Bou Nassar
AGSC 236	3.0	1	J. Chaaban
AGSC 256	1.0	21	M. Bou Nassar
AVSC 226	3.0	23	M. Farran

Completed Theses

- George Nassif. Dr. Mohamad Farran(Adviser). MS Poultry Science. "Performance and immune response to vaccination of male broilers offered graded levels of safflower meal during the starter period", Sept 2013.
- Karl Hilan. Dr. Elie Barbour (Adviser). MS Animal Science. "The efficacy of different disinfectants used in mastitic control programs against economic bacteria", Sept 2013.
- Elie Shdeed. Dr. Mustafa Haidar(Adviser). MS Plant Science. "Selective control of *Orobanche ramosa* in potatoes with glyphosate and other soil treatments", Jan 2014.
- Aiman Suleiman. Dr. Isam Bashour (Adviser). MS Plant Science. "Use of phosphoric acid as a source of fertilizer in calcareous soils", Jan 2014.

- Dina Saleh. Dr. Yusuf Abou Jawdeh(Adviser). MS Plant Protection. "Evaluating the potential of local microalgae species for use as energy sources, nutritional supplements and biological control of plant pathogens", May 2014.
- Pardie Karamanoukian. Dr. Ali Chalak (Adviser). MS Agriculture Economics. "Impact of food safety certification and certification bodies on purchasing decisions of Lebanese consumers", May 2014.
- Jessica El Asmar. Dr. Isam Bashour (Adviser). MS Irrigation. "Effect of hydrogel amendment on growth and survival of plants in two types of soils", May 2014.

Research Funding

Internal Grants

University Research Board (URB)

- Abou Jawdah,Youssef. "Exploring the potential of local strains of microalgae for biological control of plant pests". University Research Board (URB), AUB, Lebanon. 2013-2014. (\$10,000).
- Jaafar,Hadi. "A Landsat based remote sensing model for monitoring effects of conflicts on Agriculture: the case study of Orontes Basin, Syria". 2014-2015.
- Prattis,Susan. "Detecting potential food bourne pathogens in domestic meat supplies". Seed grant, FAFS.(\$5,000).

Local, Regional and International Grants

- Abou Jawdah,Youssef. "Production of biodiesel from Algae in selected Mediterranean Countries". EU-European Neighborhood and Partnership Instrument (ENPI). Jan 2012-Jan 2015. (€ 309,297.96 equivalent to ~ \$433,000).
- Abou Jawdah,Youssef. "Control of new threatening cucurbit-infecting whitefly-transmitted gemini viruses in the Middle-East". Al-Balqaa Univ. Jordan, Dec 2008- June 2014. (\$247,000).
- Abou Jawdah,Youssef. "Development of tomato with combined resistance to tomato yellow leaf curl virus and abiotic stress". Al-Balqaa Univ. Jordan, 2012 -2015. (\$113,000).

- Barbour, Elie. "The Middle East respiratory syndrome, coronavirus". NIAID Center of Excellence for Influenza Research and Surveillance, St. Jude Children's Research Hospital. (\$17,200).
- Chalak, Ali (Principal Investigator). "Household food waste generation in urban Lebanon: behavioral patterns, economic costs and policy options", University Research Board (URB), AUB, Lebanon. July 2013-2014. (\$10,000).
- Chaaban, Jad. (Co-Investigator) Mutasem, Fadel: "Climate change and saltwater intrusion along the Eastern Mediterranean: Socioeconomic vulnerability". International Development Research Center (IDRC). 2011-2014. (\$300,000).
- Farran, Mohamad. "Studies on the nutritional and feeding values of feedstuffs produced from locally cultivated and processed safflower, hemp and low toxin faba beans for poultry". CNRS. (\$24,000).
- Farran, M and Barbour, E. "Efficacy of different vaccines in protection against velogenic Newcastle disease in broilers". Ministry of Agriculture. (\$10,800).
- Farran, Mohamad. "Effect of dietary lignocellulose on egg hatchability and performance parameters of broiler breeders and their progeny under commercial settings". ETN Food Engineering. (\$8,400).
- Jaafar, Hadi. "A Method for studying feasibility and prioritization of construction of small and medium dams in arid environments". Munib and Angela Masri Institute of Energy and Natural Resources.
- Haidar, Mustapha. "Reduced rates of metribuzin and hilling for weed management in potato". CNRS. 2013-2014. (\$7,000).
- Hamadeh, Shadi. "Promotion of organic and local healthy products through a weekly farmers' market", Waterfront City. (\$40,000)
- Hamadeh, Shadi. "Outcome mapping: Regional capacity building in MENA -Phase II". IDRC. (\$246,000)
- Hamadeh, Shadi. "Hosting the Regional Knowledge Management and Knowledge Sharing Network /ESDU – KariaNet Project". IDRC. (\$50,000).

Publications

International Refereed Journals (Corresponding/ Senior Author*)

- Maher M McKenna, Efat M Abou-Fakhr Hammad, **Mohamad T Farran**. 2013. Effect of *Melia azedarach* (Sapindales: Meliaceae) fruit extracts

on Citrus Leafminer *Phyllocnistis citrella* (Lepidoptera: Gracillariidae). SpringerPlus, 2:144.

- Abrahamian, P.*, Sobh, H., Seblani R., Samsatly J., Jawhari M., **Abou-Jawdah Y.**, 2013. First report of Cucumber vein yellowing virus on cucumber in Lebanon. Plant Disease 97: 1516.
- Abrahamian P. and **Abou-Jawdah Y.** 2013. Whitefly-transmitted criniviruses of cucurbits: current status and future prospects. Indian Journal of Virology (DOI 10.1007/s13337-013-0173-9). Published online: October 27, 2013. *Disease note
- Samsatly J., Jawhari M., Najjar C., Sobh H. and **Abou-Jawdah Y.** 2014. Modification of serological techniques and their evaluation for detection of potato viruses in seed certification related activities. Crop Protection 61: 51-57.
- **Abou-Jawdah Y.**, Abdel Sater A., Jawhari M., Sobh H., Abdul-Nour H., Bianco PA., Molino Lova M., Alma A. 2014. *Asymmetrasca decedens* (Cicadellidae, Typhlocybinae), a natural vector of 'Candidatus *Phytoplasma phoenicium*'. Annals of Applied Biology (in press- published online: <http://onlinelibrary.wiley.com/doi/10.1111/aab.12144/pdf>)
- Abou Zaki, S., **Chaaban, J., Nasreddine, L. and Chalak, A.** (2014). The impact of food price increases on nutrient intake in Lebanon. Agricultural and Food Economics 2(3).
- Chedid, M., Jaber, L.S., Giger-Reverdin, S., Duvaux-Ponter, C., **Hamadeh, S.**, 2014. Water stress in sheep under arid environments. Canadian Journal of Animal Sciences, 94:243-257.
- Jaber, L.S., **Barbour, E.K.**, Abi Said, M., Chedid, M., Giger-Reverdin, S., Duvaux-Ponter, C., Morand-Fehr, P, **Hamadeh, S.K.**, 2014. Responses to intermittent watering in Shami goats in late gestation and mid lactation. Journal of Applied Animal Research, Published online. DOI: 10.1080/09712119.2014.888001
- **Barbour E.K.**, Kumosani T., Ahmadi D., Shaib H., and Harakeh, S. 2012. Antimicrobials use in chickens and impact on emergence of drug-resistant *Campylobacter* in humans. The International Arabic Journal of Antimicrobial Agents, 2(4): 1-6.
- **Barbour E.K.**, Shaib H.A., Kumosani T., **Hamadeh S.K.**, and Harakeh S. 2013. A mini review of qRT-rtPCR technology application in uncovering the mechanism of food allergy and in the search for novel interventions. Anti-inflammatory and Anti-Allergy Agents in Medicinal Chemistry, 12(1): 100-106.

- **Barbour E.K.**, Saade M.F., **Hamadeh S.K.**, Shaib H.A., Kassaify Z., Abdel Nour A., Harakeh S., and Kumosani T. 2012. Genetic selection barriers in global development of rural goat production and a simplified approach in identification of proper polymorphic types. *Journal of Veterinary Science and Technology*. 4 (1): 1-7.
- Iyer, A. Kumosani, T. Yaghmoor, S., **Barbour, E.** and Harakeh, S. 2013. *Escherichia coli* and *Salmonella* spp. in meat in Jeddah, Saudi Arabia. *Journal of Infection in Developing Countries*, 7(11): 812-818.
- Iyer, A., Kumosani, T., **Barbour, E.** and Harakeh, S. 2014. High incidence rate of Methicillin resistant *Staphylococcus aureus* (MRSA) among healthcare workers in Saudi Arabia. *Journal of Infection in Developing Countries*, 8(3): 372-378.
- **Barbour, E.K.**, Shaib, H., Azhar, E., Kumosani, T., Iyer, A., Harakeh, S., and Bragg, R.R. 2013. Modulation by essential oil of vaccine response and production improvement in chicken challenged with velogenic Newcastle Disease Virus. *J. Applied Microbiology* 115:1278-1286.
- Harakeh A., Diab-Assaf, M., Azar, R., Safwan, T., Abou El Ardat, K., Damanhour, G.A., Kadri, I., Chaudry, A., Kumosani, T., Mutlak, H., Hassan, A., Niedzweicki, A., Rath, M., Yacoub, H., Azhar, E. and **Barbour, E.K.** 2014. Epigallocatechin-3-gallate inhibits tax dependent activation of Nuclear Factor Kappa B and Matrix Metalloproteinase 9 in Human T-cell Lymphotropic Virus-1 positive Leukemia cells. *Asian Pacific Journal of Cancer Prevention*, 15(3): 1219-1225.
- Shaib, H.A., Cochet, N., Ribeiro, T., Abdel Nour, A.M., Nemer, G., Azhar, E., Iyer, A., Kumosani, T., Harakeh, S. and **Barbour, E.K.** 2014. Impact of passaging of H9N2-avian influenza virus in hamsters on its pathogenicity and genetic variability. *Journal of Infections in Developing Countries*, 8(5): 570-580.
- **Barbour, E.K.**, Ayyash, D., Shaib, H., Bragg, R.R., Azhar, E., Iyer, A., Harakeh, S., Kumosani, T. 2014. Koch's Postulate in Reproduction of Broiler Coccidiosis by Co-infection with Eight Most Common *Eimeria* spp.: a Model for Future Evaluation of New Biologics. *International Journal of Applied Veterinary Medicine*, 12(1):76-83.
- **Barbour, E.K.**, Abou-alsaud, M.E., Gheith, N.A., Abdel-Sadek, M.A., Heba, H.M.A., Harakeh, S. and Karrouf, G.I.A.. 2014. Evaluation of a diagnostic model for aflatoxicosis in sheep: a pre-requisite for future adoption of national surveillances. *International Journal of Applied Research in Veterinary Medicine*, 12(2): 121-129.

- Salti, N., **Chaaban, J.** and Naamani, N.. 2014. The Economics of Tobacco in Lebanon: An Estimation of the Social Costs of Tobacco Consumption. *Substance Use and Misuse*, Vol. 49, No. 6 , Pages 735-742.
- Salti, N., **Chaaban, J.**, Nakkash, R., Alaouie, H.. 2013. The effect of taxation on tobacco consumption and public revenues in Lebanon. *Tobacco Control*, doi:10.1136/tobaccocontrol-2012-050703.
- Habib, R.R., Hojeij, S., Elzein, K., **Chaaban, J.** and Seyfert, K. 2014. Associations between life conditions and multi-morbidity in marginalized populations: the case of Palestinian refugees. *The European Journal of Public Health*. Published online. doi:10.1093/eurpub/cku089.
- Bassil, R.J., Bashour, I.I., Sleiman, F.T. & **Abou-Jawdeh, Y.A.** 2013. Antibiotic uptake by plants from manure-amended soils. *Journal of Environmental Science and Health, Part B: Pesticides, Food Contaminants, and Agricultural Wastes*. 48(7): 570-574.
- **Jaafar, H.H.** 2014. Feasibility of groundwater-recharge dam projects in arid environments. *Journal of Hydrology*, 512, 16-26.
- **Jaafar, H.H.** 2014. Prioritization of small and medium domestic dams in dry lands, *ASCE Journal of Irrigation and Drainage Engineering*. Published online [http://dx.doi.org/10.1061/\(ASCE\)IR.1943-4774.0000772](http://dx.doi.org/10.1061/(ASCE)IR.1943-4774.0000772).
- **Haidar, M.A.** 2013. Biofumigation for weed management in cabbage. *Journal of Agricultural Science and Technology A & Journal of Agricultural Science and Technology B*. 3 (10): 728-732.
- **Chaaban, J.**, "Expanding youth opportunities in the Arab region", *Arab Human Development Reports Research Paper Series*, n.8, 2013.

Book Article or Chapter

- Seyfert, Karin, **Jad Chaaban**, and Hala Ghattas, "Food Security and the Supermarket Transition in the Middle East: Two Case Studies", in Z. Babar and S. Mirgani (eds), *Food Security in the Middle East*, London: Hurst ISBN 978-18-490-4302-1(in press)
- **Chaaban, J.**, "Youth Welfare Index", in *Encyclopedia of Quality of Life Research*, Springer ISBN 978-94-007-0752-8, 7301-7303.
- **Shadi Hamadeh**, Salwa Tohmé Tawk and Mounir Abi Said. *Urban Agriculture and Food Security in the Middle Eastern Context: A Case Study from Lebanon and Jordan*. in Z. Babar and S. Mirgani (eds), *Food Security in the Middle East*, London: Hurst ISBN 978-18-490-4302-1(in press)

Abstracts and Conference Proceedings (Corresponding/ Senior Author*)

- **Farran M.**, Pietsch Manfred, and Chabrilat Thibaut, 2013. Influence de la lignocellulose sur la qualité des litières et le rendement carcasse du poulet de chair. Proceedings of the Dixièmes Journées de la Recherche Avicole et Palmipèdes à Foie Gras. La Rochelle, France. 917 – 921.
- **Farran M. T.** and H. Akilian. 2014. Effect of dietary lignocellulose in post-peak production and hatching performance of broiler breeders grown under commercial settings. Accepted for the European Poultry Conference, June 23-27, 2014, Norway.
- Karaoglanoglou, L., Koullas, D., Tzovenis, I., Economou-Amilli, A., El Diwani, G., Gamal-El Din Mohammady, N., Zimbone, S., Denisi, P., Zema, D., Cordon, S., Polycarpou, P., Ioannides, I., Dallias, P., Omirou, M., Charalambous, A., **Abou-Jawdah**, Y., Thygesen, N., Koukios, E. 2013. Potential Application Perspectives of a Microalgal Biorefinery in Six Mediterranean Countries: The Med- Algae Project. Proceedings of the 21st European Biomass Conference and Exhibition: 198-202.
- **E. Choueiri**, M. Molino Lova, **Y. Abou Jawdah**, A. Alma, R. Tedeschi, P.A. Bianco, S. Hajj Hassan, L. Haydar and R. Al Achi 2014. Almond Witches' broom: an emerging phytoplasma disease of stone fruits in Lebanon. Submitted to EPPO.
- R. Tedeschi, F. Quaglini, Picciau L., M. Jawhari, **Y. Abou-Jawdah**, M. Molino Lova, P. Casati, E. Choueiri, H. Abdul-Nour, P.A. Bianco, A. Alma. 2014. Potential vectors of 'Candidatus Phytoplasma phoenicium' in Lebanon. XX National Congress of the Italian Phytopathological Society.
- **Chalak, A.**, Al-Naghi, H., Irani, A. and Abou Zeid, Maya., 2014. 'Commuters' behavior towards upgraded bus services in Greater Beirut: Implications for greenhouse gas emissions, social welfare and transport policy.' Paper presented at the conference on "Building the Case for Sustainable Transportation in the Arab World", Issam Fares Institute for Public Policy and International Affairs, American University of Beirut, Beirut, Lebanon, 21 May 2014. (refereed)
- Irani, A. and **Chalak, A.**, 2014. 'Harnessing motorists' potential demand for hybrid-electric vehicles in Lebanon: Policy options, CO2 emissions reduction and welfare gains.' Paper presented at the conference on "Building the Case for Sustainable Transportation in the Arab World", Issam Fares Institute for Public Policy and International Affairs, American University of Beirut, Beirut, Lebanon, 21 May 2014. (refereed)
- **Hamadeh, S.K.**, Tohmé Tawk, S., and Moussa, Z., 2014. Mainstreaming Urban Agriculture in the Middle East and North Africa: the case study of

Amman, Jordan. Proceedings of the 11th European IFSA Symposium, April 1-4, 2014, Berlin Germany.

- Jaber, L.S., Duvaux-Ponter, C., **Hamadeh, S.K.**, Giger-Reverdin, S., 2014. Short water restriction episode in lactating Saanen and Alpine goats. Oral presentation at the European Regional Conference on Goats 2014, Hungary/Romania, April 9-11, 2014.
- **Jaafar Hadi H.**, 2014. "Remote sensing analysis for monitoring effects of conflicts on irrigated agriculture". International Conference on Water-Food-Energy Nexus in Drylands : Bridging Science and Policy". June 11-14, Rabat Morocco.
- **Haidar, M.**, 2014. "Biofumigation for weed management in cabbage". Proceedings of the Western Society of Weed Science's Annual meeting, March 10-13, 2014, Colorado, USA. Vol. 67: p. 8.
- Harakeh, S., T.J. Kassabian, H. Shaib, Z. Kassaify, A. Iyer, E. Azhar, T. Kumosani, **E.K. Barbour**. The significance of Escherichia coli induced mastitis in cows associated with the presence of virulence genes and wide range-resistance to 20 antimicrobials, American Microbiology Society Congress, May, 2014, Boston, USA
- Harakeh, S., R. Azar, M. Diab-Assaf, G. A. Damanhour, A. Chaudary, A. Iyer, T. Kumosani, A. Niedzwiecki, M. Rath, S. Tayeb and **E. Barbour**, A. Al-Hejin. Effects of Nutrients on Matrix Metalloproteinases in Human T-cell Lymphotropic Virus Type 1 (HTLV-1) Positive and Negative Malignant T-cells. American Microbiology Society Congress, May, 2014, Boston, USA
- **Barbour, E.K.**, S.K. Dankar, H. A. Shaib, T. Kumosani, E. Azhar, A. Iyer, and S. Harakeh. Antimicrobial profile of essential oils extracted from wild versus cultivated *Origanum ehrenbergii* against enteric bacteria. American Microbiology Society Congress, May, 2014, Boston, USA
- **Barbour, E.K.**, H. Shaib, E. Azhar, T. Kumosani, A. Iyer, S. Harakeh, and R. R. Bragg. Terpenes in modulation of vaccine response and production improvement in chicken challenged with velogenic Newcastle Disease Virus. American Veterinary Medical Association (AVMA) Congress in Denver Colorado (July 25-29, 2014).
- **Barbour, E. K.** and T. Kumosani. Coccidiostat activity of terpenes against eight *Eimeria* spp. in chicken. American Veterinary Medical Association (AVMA) Congress in Denver, Colorado, July 25-29, 2014.
- **Prattis S.**, Shaib H, Zgeib R, Abou-Hassan Z and Rifai R. Initial Examination of Facility and Meat Microbial Populations in Lebanese Slaughterhouse

Settings. International Animal and Veterinary Science Conference, International Science Index 2014 Volume 8 (6) pp. 10.

Services

Youssef Abou Jawdeh

AUB

- Member of the FAFS Advisory Committee
- Member of the FAFS Graduate Studies Committee

Others

- Member of the Pesticide Legislation Committee, Ministry of Agriculture
- Member of the Pesticide Scientific Committee, Ministry of Agriculture
- Member of Phytoplasma Management Committee. Ministry of Agriculture
- Member of the Vegetable Committee, Ministry of Agriculture
- Board member 2011-2013. Mediterranean Phytopathological Union (MPU), Italy.
- Member of The American Phytopathological Society -APS MN, USA.
- Member of the Arab Society for Plant Protection, Beirut, Lebanon
- Member of the European Union COST Action FA0807: Integrated Management of Phytoplasma Epidemics in Different Crop Systems
- Member of the International Working Group on Legume and Vegetable Viruses (IWGLVV)

Jad Chaaban

AUB

- Undergraduate Coordinator for the Agribusiness Program (2009-present)
- Executive Committee elected member, Nature Conservation Center for Sustainable Future- IBSAR (AY 09-10 - present)
- Member, Issam Fares Institute for Public Policy and International Affairs, AUB. (AY 08-09 - present)

- Member, Interfaculty Financial Aid Committee (AY 09-10 - present)
- Senate representative for FAFS

Others

- President and Founding Member, Lebanese Economic Association (2007-present)
- Expert, Middle East Youth Initiative - www.shababinclusion.org (2007-present)
- Associate Researcher, Toulouse School of Economics, GREMAQ-INRA, France (2005-present)
- Member, Expert Group for the UN-Lebanon National Consultations on the Post-2015 Development Agenda (2013)
- Served as committee member and attended the defense of one PhD student at the Université de Grenoble, France

Ali Chalak

AUB

- Member, ad-hoc Interdepartmental Committee to oversee the M.Sc. program in Rural and Community Development (RCODE) (2014 – present)
- Member: Student Affairs Committee, Undergraduate Admissions Committee, Undergraduate Curriculum Committee, and Undergraduate Student Academic Affairs Committee
- Faculty Assistant Marshall in Commencement Ceremony (2010 – present)
- Search Committee for the position of Assistant Professor in Transportation Engineering, Computer and Electrical Engineering department. External Member (2013 – Present)
- Member, University Library Committee (2013 – present)

Public services and services to the profession

- Reviewer for international peer reviewed journals
- Judge and advisor for the Agribusiness section of the Innovative Projects Awards 2014, South Business Innovation Center, Chamber of Commerce, Industry and Agriculture in Sidon and the South, Lebanon, June-November 2014

- Judge for the Aana Prizes for Innovation in Agribusiness and for Community Benefit through Agribusiness, 2014, American University of Beirut, May 2014
- Trainer of Iraqi policy-makers on Environmental Policy, Public Policy Planning Workshop, Carnegie Middle East Center, Beirut, Lebanon, 7-9 April 2014

Hadi Jaafar

AUB

- Member, ad-hoc Committee on Program Review: Submitted the report on the Self-Study of Agricultural Program; Coordinated the program reviewers' 3-day visit to AUB
- Served on different FAFS committees
- Member, Graduate Studies Committee
- Member and Secretary, Research Committee
- Member, Undergraduate Admission Committee
- Secretary, Faculty meetings

Mostafa Haidar

AUB

- AREC Academic Coordinator
- AGSC representative in the University Learning Outcomes Coordinating Committee
- Member, ad-hoc committee on the Revised Sustainable Agriculture Program
- Member of the Advisory Committee
- Member of the Students Affairs Committee
- Faculty Assistant Marshall in Commencement Ceremony
- Developed and coordinated with students, FM and sponsors a mechanism to send 10 students to attend the Global Forum for Innovation in Agriculture Conference (GFIA) held in Abu Dhabi between Feb. 3 and 5, 2014

Others

- Chairman of the National Committee for Conservation Agriculture in Lebanon, Ministry of Agriculture

- Secretary and Treasurer, Arab Society for Plant protection
- Board member in the Lebanese Autism Society
- Member of the National Organic Agriculture Committee, Ministry of Agriculture

Issam Bashour

AUB

- Member of the University Senate Committee during the fall semester
- Member of the departmental review committee
- Supervising soil analysis activities (generated 4 400 000LL during the fall semester)

Others

- Follow up on conservation agriculture activities in Lebanon
- Member, Fertilizer Committee and Conversation Agriculture Committee at the Ministry of Agriculture, Lebanon

Adib Saad

AUB

- Member of FAFS Academic Affairs Committee
- Appointed by the Provost and served as a voting member on the promotion committee of the Faculty of Engineering and Architecture
- Member of the AUB Academic Development Committee

Others

- Executive Secretary of the International Agricultural Committee of the Lebanese Chamber of Commerce, Lebanon
- Appointed by the Lebanese minister of Agriculture as a member of the National Committee on Stone Fruit Trees and of the National Committee on Pome Fruit Trees
- Chaired the committee approving candidates for employment at the Ministry of Agriculture and LARI in May 2014 and July 2014
- Appointed as a member of the Advisory Committee for the Minister of Agriculture Akram Chehaieb

- Continued to serve as Senior Editor of “Phytopathologia Mediterranea”, official journal of the Mediterranean Phytopathological Union

Mohammad Farran

AUB

- FAFS Undergraduate Studies Coordinator
- FAFS representative on the “Poultry Committee” at the Ministry of Agriculture
- FAFS representative on the “National Feedstuffs Committee” at the Ministry of Agriculture
- Member of FAFS Advisory Committee and Admission Committee
- FAFS representative on AUB Advising Steering Committee, Advising Website Committee and General Education Board

Profession

- Member, Board of Administration, Lebanese National Council for Scientific Research, October 14, 2003 to date
- Vice President, World Poultry Science Association, Lebanese Branch
- Member of the Lebanese Association for the Advancement of Sciences
- Advisor on the Parliamentary Committee for Agriculture and Tourism, Lebanon, January 2010 to date
- Reviewer for national research proposals and for refereed journal
- Chairperson of the Organizing Committee for the 4th Mediterranean Poultry Summit held jointly with AUB in Beirut, September 2 – 5, 2014

Others

- Support to several animal farmers and crop growers either on individual basis or through NGOs or UN organizations in Lebanon

Elie Barbour

- Chairman of the Research Committee
- Member, AUB Task Force for DVM development
- Diagnosis and control of economic poultry diseases in Lebanon including, Newcastle disease, Stunted syndrome, and Immunosuppressive diseases
- Reviewer on international peer-reviewed journals

Shadi Hamadeh

AUB

- Chairman of the AVSC and AGSC departments, and then of the Agriculture Dept. after merger
- Member of various FAFS committees
- Coordinator of the Environment and Sustainable Development Unit (ESDU)
- Member, AUB Task Force for DVM development
- Member, Interfaculty Food Security Committee

Others

- Member of the Executive Board of RUAF
- Coordinator of the National Training Unit under the NEMTA project supported by IFAD

Susan Prattis

AUB

- Member, AUB DVM Task Force
- Science Fair Judge, FAS, Department of Education, AUB, Spring 2014
- Business Plan Competition Judge, Darwazah Competition, Olayan School of Business, AUB, Spring 2014

Profession

- Scientific reviewer of several peer reviewed journals
- Editorial panel of Symbiosis Journal of Veterinary science
- Member of : American College of Laboratory Animal Medicine; American Veterinary Medical Association; Academy of Management; European Society for Laboratory Animal Veterinarians; British Society of Toxicological Pathologists; American Association of Laboratory Animal Science

Community

- Visit to the American Community School K-3 Classroom
- Board member of Angelica Patience Assistance - Development / Financial Committee.

Participation in Workshops, Meetings and Conferences

Youssef Abou Jawdah

- Attended the annual meeting of the USAID funded project “Development of tomato with multi-resistances to tomato yellow leaf curl virus, salinity, drought and heat”, Università degli Studi di Milano, Milano, Italy, January 23-26, 2014.
- Attended the first Cucurbit Research Project meeting in relation to the control of new threatening cucurbit infecting whitefly-transmitted Gemini viruses in the ME, Rome, Italy, March 30-April 3, 2014.
- Attended the interim meeting of the Med-Algae project and stakeholders workshop, University of Athens, Palamas Building, Athens, Greece, November 25-26, 2013.
- Attended and presented an oral summary of research activities at the AVSI/ Italian Cooperation/ Ministry of Agriculture meeting; Scientific table for the project entitled: “The National program for the improvement of olive oil’s quality and actions against the diffusion of stone fruit phytoplasma (Aid 9627)”, December 2, 2013.

Hadi Jaafar

- Attended and presented a paper at the International Conference on Water-Food-Energy Nexus in Drylands : Bridging Science and Policy, June 11, 2014, Rabat Morocco.
- Participated in a meeting on Integrated Water Resources Management in Lebanon- Friends of Abd - Aal Association, June 4, 2014.
- Participated in a workshop on Flood Hazard and Risk Mapping in Lebanon – Grand Saray, March 19, 2014.
- Presented a paper on Changes in Vegetation Cover in Qaa Area during the last Century in Water and Livelihoods Initiative Regional Knowledge Exchange workshop, 23-27 September, 2013, Tunis, Tunisia.
- Participated in WLI Annual Coordination Meeting, 5-6 November 2013, Amman, Jordan.
- Presented a paper on Food Security in MENA Region before the Ministry of Agriculture- November 4th- Ministry of Agriculture.
- Participated in the 4th Biennial Regional Coordination Meeting for West Asia Regional Program (WARP) 15-16 November 2013, Beirut, Lebanon.

Shadi Hamadeh

- Invited to participate in the Arab Forum for Environment and Development (AFED) consultation meeting to discuss the AFED 2014 Annual report, May 21-22, Kuwait.
- Invited to visit the Leibniz-Centre for Agricultural Landscape Research (ZALF), May 28, 2014, Müncheberg, Germany, and to explore collaboration options.
- Attended and presented a paper at the 11th European IFSA Symposium, April 1-4, 2014, Berlin Germany.
- Visited the Instituto de Sociología y Estudios Campesinos (ISEC) Área de Sociología, March 29, 2014, Cordoba, Spain, to explore collaboration options in relation to the Rural Community Development Master program.
- Attended and presented a paper at the First International Conference on Global Food Security, 29 September - 2 October 2013, Noordwijkerhout, The Netherlands.

Ali Chalak

- Attended and presented a paper at Building the Case for Sustainable Transportation in the Arab World Conference, Issam Fares Institute for Public Policy and International Affairs, AUB, Beirut, Lebanon, 21 May 2014
- Attended the Public Policy Planning Workshop, Carnegie Middle East Center, Beirut, Lebanon, 7-9 April 2014

Jad Chaaban

- Attended the meeting with the Regional Director of the UNDP Regional Bureau for Arab States, in preparation for the Arab Human Development Report, New York, January 27-February 7, 2014.

Mustafa Haidar

- Represented Dean Hwalla in the 12th Lebanon-ICARDA coordination and planning meeting, LAREI, Jan 4, 2014.
- Represented Dean Hwalla in the preparatory meeting of GCHERA 2015, USEK, January 23, 2014.
- Attended and presented a paper at the 2014 Annual Meeting of the Western Society of Weed Science in Colorado Springs, USA, March 10-13, 2014.

Elie Barbour

- Attended and presented a paper at the American Veterinary Medical Association (AVMA) Congress in Denver Colorado, July 25-29, 2014.
- Keynote speaker, The holistic veterinary medicine for control of economic diseases in domestic animals. Private Poultry Sector Symposium at EWABO, Germany, March 16-20, 2014.

Mohammad Farran

- Participated and presented a paper at the European Poultry Conference, Norway, June 23-27, 2014.

Susan Prattis

- Attended FAO workshop on “Strengthening Veterinary Quarantine Capacity in Middle East Countries”, December 2013.
- Attended Tempus- IDEAL workshops: February 2014 and May 2014.
- Attended WASET – International Animal and Veterinary Medical Science Conference, NY City, New York, June 2014.
- Attended New York Veterinary Medical Association Fall 2013, Cornell University, Ithaca, New York .
- Short Term Veterinary Faculty Visitor, Field Service, New Bolton Center, University of Pennsylvania, Kennett Square, Pennsylvania, January 2014.
- Attended many Center for Teaching and Learning seminars.

Consultancies

Issam Bashour

- Conducted consultancies in Sudan.

Jad Chaaban

- EU ENPI-CBCMED and Municipality of Saida, Sustainable Urban Development Strategy (USDS) project, Local Socio-Economic Expert (2012-2014).

Strategic Challenges

- The department will update its strategic plan based on the reviewers’ recommendations and action plan set accordingly.
- A new agriculture curriculum should be finalized in the coming year based on the review process.
- The department will review its graduate programs according to the reviewers’ recommendations.
- The department will put an action plan for its research strategy and establish a fundraising approach.

B. Department of Landscape Design & Ecosystem Management

Prepared by: *Dr. Rami Zurayk, Chairperson and
Ms. Nadine Modad, LDEM Senior Research Assistant*

Highlights

The LDEM department consists of eight full-time faculty members: four faculty from the sciences field and four from the design field. Every term, and based on need, the department draws on part-time design faculty members. Two programs are currently offered by LDEM: the undergraduate Bachelor of Landscape Architecture (BLA), and the graduate Masters of Sciences in Ecosystem Management (ECOM) degree, which is offered jointly with the Interfaculty Graduate Environmental Sciences Program (IGESP). In the AY 2013-2014, LDEM graduated twenty undergraduate students and four graduate students.

Department Academic Activities

- *Development of a Master of Landscape Architecture (MLA) program:* A sub-committee composed of **Bengs, Makhzoumi, Trovato** (chair of the committee), and **Zurayk** revised and finalized the draft document that was completed in spring 2012-2013. The degree is open to all undergraduate fields with an advanced status for holders of design degrees and is license-awarding. The program is aligned with the American Society of Landscape Architects (ASLA) guidelines. Status in progress (expected completion date: fall 2014-2015).

- **Bachelor of Landscape Architecture (BLA) program registration at New York State of Education (NYSED):** the proposal/self-study of the Bachelor of Landscape Architecture (BLA) program was submitted to NYSED during fall 2013-2014 for approval and registration. During September 2013, the department received comments from NYSED based on the outcome of the State Board meeting held on August 27th, 2014. The department replied to all comments and is now waiting for NYSED decision.
- **Completion of self-study document to be submitted for accreditation:** the self-study program (completed during fall 2013-2014) will be submitted to the American Society of Landscape Architects (ASLA) for accreditation of the undergraduate program as soon as its registration in the New York State of Education (NYSED) is approved.
- **Program review document to be submitted to the University:** the department and the program review committee (**N. Farajalla**, chair of committee; **Y. Abunnasr** and **N. Al-Akl**) finalized the program review document that was submitted in October 2014 to the University Program Review Committee (PRC) and for review by external reviewers (completed and submitted on October 28, 2014).
- **Sub-committee for Program Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs) assessment was formed:** the committee that included **Abunnasr** (chair), **Al-Akl** and **Farajalla**, reviewed and finalized the CLOs and administered the evaluation for fall and spring 2013-2014.
- **Sub-committee for a new science-based Master's degree related to the landscape architecture profession:** the committee chaired by **Zurayk**, is in the process of defining the academic scope of the degree. It was formed in fall 2013-2014, and included **Bengs**, **Makhzoumi**, **Trovato** and **Zurayk**.
- **Department research strategy:** the Chair initiated the process of compiling a research strategy for the department led by **Bengs** and was finalized at the end of the spring term 2013-2014.

New and Visiting Faculty

- **New Faculty:** Professor Christer **Bengs** joined the department as Visiting Professor for the period of two years effective fall 2013/2014. Dr. Bengs was Chief Researcher at Aalto University, School of Engineering (Finland) and he had requested to delay his appointment from fall 2012/2013 until fall 2013/2014.
- **Visiting Faculty:** Landscape Architect Ms. Sareh **Moosavi** joined the department as Visiting Lecturer for the period of one term (spring 2013-

2014). Ms. Moosavi is a Landscape Architect; she has an MLA (Masters of Landscape Architecture) from Shahid Beheshti University (Tehran, Iran) and is currently continuing her PhD in Landscape Architecture at the University of Melbourne, Australia.

New Appointments

- **Appointment of New Department Chair:** In January 2014, **R. Zurayk** was appointed as Chairperson of the LDEM department and **S. Talhouk** was appointed as FAFS Associate Dean.
- **Change of Faculty Status:** the status of Visiting Assistant Professor Yaser **Abunnasr** was changed to Assistant Professor effective September 2013. Dr. Abunnasr received his PhD in Regional Planning from the University of Massachusetts, Amherst, USA in June 2013.

Advertised Positions

Due to the low number of applications and the lack of qualified candidates, the LDEM department re-advertised for the vacant faculty position in Landscape Architecture for the academic year 2014-2015 (deadline March 15, 2014). The advertisement was revised and posted on FAFS website, Inside Higher Ed and the Council of Educators in Landscape Architecture (CELA), in addition to the following journals: Landscape Journal (University of Wisconsin Press, USA), Landscape Research (UK) and TOPOS Magazine –the international Review of Landscape Architecture and Urban Design (Munich, Germany). Four qualified applications were received; the review and selection process started in April 2014. Three candidates were interviewed in June 2014. Dr. Mehran Madani was invited for a job talk and a design charrette in September 2014.

Extracurricular Activities

LDEM Faculty members conducted numerous activities to enhance student learning experience including:

- **Landworks Sardinia:** this is the fourth time AUB students, supervised by **M. G. Trovato**, carry out this activity jointly with international students lead by international professors with the aim, this year, of designing and executing a landscape intervention in La Maddalena, Italy (May 22 to June 2, 2014).

Landscape Dialogues 2014: Two Landscape Dialogue events were organized. The first event was organized in collaboration with the Center for Civic Engagement and Community Service (CCECS), and consisted of an exhibition of student projects featuring the outcome of an interdisciplinary collaboration between AUB students from the LDEM department (**LDEM 228- year III**), and AUC (American University in Cairo) students from the

English and Comparative Literature department. The event took place on December 2, 2013. The student teams used the third year LDEM students' projects (from "the Site Design in the Urban Context Studio-LDEM 228") as the basis for their collaboration. They conducted a joint field visit to the project site, exchanged ideas, debated issues, and learned to work in a cross-disciplinary environment. The student projects theme was to explore public landscape issues. The event was organized by third year design studio teachers, **R. Shibli, and M.G. Trovato** and was sponsored by AUB's Provost office.

During April 28 to May 3, 2014, another Landscape Dialogue took place featuring interdisciplinary collaboration and student projects exhibition between AUB (LDEM 204- second year LDEM students) and AUC students. Students conducted joint field visits to the LDEM student project sites in the Nahr Ibrahim river area, exchanged ideas, debated issues, and learned to work in a cross-disciplinary environment. Students from the University Scholarship Program (USP) and the U.S. Middle East Partnership Initiative (MEPI) students also joined the workshop and site visits. The event was organized by second year design studio teachers, **R. Shibli, B. Al-Amine and S. Moosavi**.

- **Student studio outcome presentation:** the third year landscape architecture students, supervised by their instructors **C. Bengs** and **M. Chahine**, gave a presentation on April 28, 2014 exposing the final outcome of their studio work "Cultural and Historical Landscapes" (LDEM 204), dealing with the planning and protection of downtown Beirut, the Solidere area. The aspect of protection is not only related to the single monuments of the place, but to the urban morphology as well. The presentation encompassed a historical review of the area and the way the present reconstruction has emerged. It included possible solutions conceptualized according to by-laws and illustrated by visual renderings. Alternative modes for developing and administrating the area were proposed as well.
- **Student work exhibition:** Landscape Descriptive Drawing (LDEM 201) instructors (**N. Al-Akl, R. Mezher and S. Moosavi**) and students organized a student work exhibition on May 14th 2014, in FAFS Wing A, Science Library Hallway, to showcase some of the best work produced by the students throughout the semester.
- **IBDAA:** the LDEM students group in the final year "Site Engineering III - Design Implementation" (LDEM 249) course won, with the project titled "The Bottled Landscape: the Floating Garden", the first prize competition (2000USD) at the IBDAA event organized yearly by the Nature Conservation Center (NCC) under the Arts and Humanities category. The event took place on April 25th 2014.

- **Abillamaa entrepreneurship award:** Ecosystem Management (ECOM) graduate student, Sara Moledor, was announced as the winner of the first AUB eco-entrepreneurship award (June 9, 2014). The award is administered by the Nature Conservation Center (NCC) at AUB. Ms. Moledor used earthworms to develop an eco- and business-friendly composting method, which landed her the grand prize (20,000USD).
- **Garden show 2014:** Under the supervision and coordination of **N. Al-Akl**, LDEM students designed and implemented the department stand at the Beirut Garden Show Spring Festival. This yearly event was held during May 27-31, 2014 at the Beirut Hyppodrome.
- **International teaching collaboration:** Simultaneous overseas teaching: An exploratory collaboration between AUB/LDEM (**Y. Abunnasr**) and UMASS Amherst/LARP (Dr. Jack Ahern) was explored during spring 2013-2014. The setting: two classes, two universities, 9,000 km apart, face to face via internet. The concept is to have full visual and audio with live seminar discussions and teaching.
- **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 11, 2014. The sales generated was deposited in the department's revolving fund to sustain experiential learning activities.

Seminars

- **Public lecture** entitled "Nahr Beirut: Reading and Strategies for an Infrastructural Landscape" was given by invited speaker Ms. Sandra Frem, who is an architect, urbanist, lecturer, and the co-founder of Platau- Platform for Architecture and Urbanism. The lecture which was organized by LDEM (**N. Al Akl, R. Mezher, R. Shibli and M. G. Trovato**) on October 4, 2013, was attended by second and third year LDEM students.
- **Public lecture** on "Cultural Values of Landscape in general, and Lebanon in specific, Highlighting the Mythical Assets of the Adonis river" was given by invited speaker Dr. Raja Choueiri and was organized by second year studio instructors (**B. Al-Amine, R. Shibli and S. Moosavi**) as part of LDEM 204 design studio (Cultural and Historical Landscapes) on February 10, 2014.
- **Public lecture** on "Current and Future Trends in Landscape Contracting" was given by invited speaker, AUB alumnus Vicken Apelian, Chief Executive Officer (CEO) of Apelinc Landscape Services, Inc in California, USA. The lecture which was organized by LDEM (**S. Talhouk and Y. Abunnasr**) on March 14, 2014, was attended by LDEM faculty and students.

- **Public lecture** entitled “*Water Features in the Landscape*” organized by the department (**H. Chmaitelly**) on April 10, 2014, was given by AUB alumnus Khalil Boueri, Chairman of “Fluid Design, Watermaster, Al Miyah Holding Group”, which is one of the leaders in the MENA region in electro-mechanical systems, and water management in general, water features designs and implementation, in particular.
- **Regional workshops in Lebanon and Cairo:** the LDEM department (**N. Farajalla**, Faculty Research Director of the Climate Change and Environment in the Arab World Program at the Issam Fares Institute for Public Policy and International Affairs-IFI) in collaboration with the Issam Fares Institute (IFI), organized two experts consultation workshops (September 23 and November 1, 2013) and attended a workshop at AUC in Egypt (November 11-14, 2013) as part of a project entitled “Impact of population growth and climate change in Lebanon and Egypt on water scarcity, agricultural output and food security”. Another workshop was held on April 9, 2014 as part of the same AUB-IFI project within the framework of the IFI’s Climate Change and the Environment in the Arab World Program, and in collaboration with the American University of Cairo (AUC) and the Columbia University Middle East Research Center (CUMERC) based in Jordan.

Involvement in interdisciplinary and interfaculty activities

LDEM faculty members were actively involved in university wide centers, programs and activities:

- **Farmers’ market design:** the Environment and Sustainable Development Unit at FAFS (ESDU) and representatives from Waterfront City Cares distributed awards and certificates to LDEM students who contributed to the Farmers’ Market Student Design Presentations (under the supervision of **Y. Abunnasr**) of the project entitled “Promotion of organic and local healthy products through a weekly farmers’ market” during February 2013. The event took place on October 11, 2013.

The Environment and Sustainable Development Unit (ESDU) and LDEM organized a second student design presentations for a new Farmers’ market in collaboration with Al-Shouf Cedar Society (under the supervision of **M.G. Trovato**). The first year students’ designs were presented at the “Souk O Shouf” showcase event on May 12, 2014 at the FAFS olive garden.

- **Initiative for AUB arboretum and botanic garden:** the department (**S. Talhouk and Y. Abunnasr**) is leading a university wide initiative to launch AUB arboretum and botanic garden. In addition to S. Talhouk, the committee in charge consists of ten other members from different AUB faculties and units and AUB friends as follows: Anis Abdallah (Grounds and Transfer services), Tamer Amin (Associate Professor and SMEC Director -Science

and Mathematics Education Center), **Yaser Abunnasr** (Landscape Planning, LDEM), **George Battikha** (Landscape Horticulture, LDEM), **Christer Bengs** (Landscape Architecture and Urban Planning, LDEM), Kathy Dorman (AUB Community), **Monika Fabian** (Instructor, LDEM), Rafi Ohanian (Alumnus, Al Ryum Contracting & Trading Company), Mariam Sabaah (Associate Director of Development - Special Projects : Office of the Vice President for University Advancement), Nada Sinno Saoud (Lecturer, Department of Biology/Curator of the Post Herbarium/member of the Natural History Museum), and Leila Sidaoui (AUB friend).

- **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 in charge consists of the following four other LDEM members: **Y. Abunnasr, N. Al-Akl, M. Fabian, N. Farajalla**

Department Outreach Activities

- **School visits to the greenhouse area:** Several campus tree tours were organized by **M. Fabian** (instructor/ greenhouse supervisor) for around 160 school students in addition to accompanying administration staff. Among the visiting schools were Collège Protestant Français and the International College (IC).
- **Community service for Syrian refugees:** Final Year LDEM students and their instructor organized, as part of their “Site engineering: Design implementation” (LDEM 249) course, a one-day donation campaign in front of AUB’s West Hall on March 24, 2014 for a Syrian refugee camp in Saida. Donations in the form of books, school stationery and artistic supplies were collected. A *facebook* page was created for this event entitled “Ghouroub Al-Shams”. A 5000USD donation was also received from BLC bank to implement this project.
- **University for seniors:** the department offered a course on campus landscape trees and shrubs during spring 2013-2014 which included historical overview and campus tours. The course was taught by **S. Talhouk, G. Battikha** and **M. Fabian**. A total of twenty-five participants attended all three course sessions.

Department Visibility

- **Department brochure:** LDEM faculty members (**N. Al-Akl** and **S. Talhouk**) completed the first department brochure as part of the department visibility in November 2013. This brochure was distributed during the ASLA meeting in Boston in November 2013 to professionals and firms from the landscape architecture field.

- *Department visibility and student internship opportunities:* In line with the department visibility strategy, **N. Al-Akl** received FAFS support (short-term faculty development grant) to attend the ASLA (American Society of Landscape Architects) annual meeting and expo which was held in Boston, USA from November 14 to 18, 2013. The objectives of the visit were to: Meet international employers and landscape firms that are currently conducting work in the Middle East and the Gulf to secure internship opportunities at their firms for LDEM students; interact with peer professionals and academicians to plan for collaborative teaching within the context of student exchange and study abroad; visit the Sasaki Associates office to continue discussion on the yearly internship opportunity for LDEM students at their firm; present the LDEM department to conference participants by distributing the department brochure. In addition, N. Al-Akl attended the educational sessions covering the latest topics in the field, and upon her return, she shared her findings by giving a presentation at a department meeting. This expo, which is one of the most important and most recognized landscape conferences internationally, was held at the Boston Convention and Exhibition Center, Boston, USA.

Faculty and staff recognition

- *Tamayouz Award:* Professor Associate **J. Mahzoumi** was awarded the Tamayouz Award 2013 for outstanding women architects in Iraq in October 2013. It is an excellence award for women who have contributed to the fields of architecture and construction throughout Iraq.
- *Recognition of Elias Abi Samra for 25 years of service:* Greenhouse technician Mr. **Elias Abi Samra** was recognized for his 25th year of service at a special faculty coffee break prior to the holidays on December 20, 2013.

Student Activities

- *Parking Day:* Beirut's second Park(ing) Day took place on September 20, 2013. The event was hosted by the Landscape Society and held in collaboration with Beirut Green Project. The participants occupied a small parking area in front of Café Hamra and decorated the space with turf, potted trees, shrubs, and benches, inviting fellow students and passers-by to sit and enjoy the greenery. The event served to underline Beirut's lack of green spaces and the physical and psychological benefits of transforming parking spaces into small public parks.
- *Christmas Party:* The Landscape Student Society and FAFS SRC organized a Christmas event on December 11, 2013.
- *Meeting with SRC and Landscape Society representatives:* Following issues raised with the Dean during a student town meeting, the Chair met

with representatives from the Landscape Society and FAFS-SRC during November 2013 to channel students' complaints and suggestions.

Space and Facilities

- *Planning for Outdoor Educational Facilities:* **Y. Abunnasr, S. N. Talhouk,** and **M. Fabian** completed a study and a design proposal to optimize the use of the outdoor space in the greenhouse area for educational and outreach activities of the department.

Personnel

The LDEM department included eight faculty members, ten part time faculty members (3.0 FTE) and seventeen research assistants, of which fourteen were appointed on grants. Seven graduate assistants were appointed for the academic year 2012-2013. The department has one support staff. The below tables detail the personnel in the Landscape Design and Ecosystem Management department.

Full Time Faculty

Rami Zurayk	Professor and Chairperson (effective January 2014)
Yaser Abunnasr	Assistant Professor
Nayla Al Akl	Lecturer
Christer Bengs	Visiting Professor
Monika Fabian	Instructor
Nadim Farajalla	Associate Professor, Faculty Research Director of Climate Change and Environment in the Arab World (IFI)
Jala Makhzoumi	Associate to the Faculty (July 1, 2012 – present)
Salma N. Talhouk	Professor, Associate Dean
Maria Gabriella Trovato	Assistant Professor

Part Time Faculty

George Battikha	Senior Lecturer
Marlene Chahine	Lecturer
Hala Chmaitelly	Lecturer
Yasmina Choueiri	Lecturer
Bachar El-Amine	Lecturer
Imad Gemayel	Lecturer
Sara Hage	Lecturer
Wissam Melhem	Lecturer
Ramzi Mezher	Lecturer
Halim Nader	Lecturer
Rabih Shibli	Associate Director for community development projects at the Civic Engagement and Community Services Center (CCECS)

Research Assistants

Nadine Modad	Departmental Research Assistant (2007-present)
Elias Abdel Sater	Research assistant (April 1, 2014-present)
Dana Ali	Part-time Research Assistant (on grant: Dr. Maria G. Trovato and Dr. Y. Abunnasr; July 1 to September 30, 2014)
Farah Ali	Part-time Research Assistant (on grant: Dr. Maria G. Trovato and Dr. Y. Abunnasr; July 1 to September 30, 2014)
Omar Aridi	Part-time Research Assistant (on grant: Dr. Maria G. Trovato and Dr. Y. Abunnasr; July 1 to September 30, 2014)
Mahmoud Bou Kanaan	Part-time Research Assistant (on grant: Dr. Maria G. Trovato and Dr. Y. Abunnasr; July 1 to September 30, 2014)
Najat Chehab	Part-time Research Assistant (on grant: Dr. Maria G. Trovato and Dr. Y. Abunnasr; July 1 to September 30, 2014)
Yassmine Esteitie	Full-time Research Assistant (on grant: Dr. M. G. Trovato and Dr. Y. Abunnasr; July 1 to December 31, 2014)
Dr. Saker El Nour	Post-doctoral Researcher (on LSE Project, Dr. Rami Zurayk)
Cynthia Gharios	Full Time Research Assistant (on LSE Project, Dr. Rami Zurayk)
Kathy Iskandar	Full-time Research Assistant (on grant: Dr. Maria G. Trovato; April 15 to August 31, 2014)
Wassim Kays	Full-time Field Expert (on grant: Dr. Salma Talhouk/NCC)

Jessika Nicolas	Full-time Research Assistant (on grant: Dr. M. G. Trovato and Dr. Y. Abunnasr; August 1 to December 31, 2014)
Omar Rifai	Full-time Research Assistant (on grant: Dr. M. G. Trovato and Dr. Y. Abunnasr; July 1 to July 31, 2014)
Rasha Talhouk	Full-time Research Assistant curriculum development and reviews and program accreditation (June 2011– January 15, 2014).
Lama Yasmin Tawk	Full-time Research Assistant (on grant: Dr. Salma Talhouk/NCC)
Antoine Khalil	Part-time Research Assistant (on grant: Dr. Salma Talhouk/NCC)

Graduate Assistants

Eleni Assaf	Ecosystem Management
Rouba Dagher	Urban Design
Nada Ghanem	Ecosystem Management
Elias Karaan	Ecosystem Management
Sara Moledor	Ecosystem Management
Lama Tawk	Ecosystem Management (GRA)
Karim Shaar	Ecosystem Management

Support Staff

Elias Abi Samra	Greenhouse Technician
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Teaching

Courses Offered

During the academic year 2013-2014, the department offered a total of thirty-five undergraduate courses, one internship course, one tutorial and two graduate courses. Among the undergraduate courses, (9) were design studios and (26) were lecture-based courses.

Student Enrolment in Courses.

• Student Enrolment - Fall 2013-2014

Course	Credits	Enrolment	Instructor(s)
LDEM 200	4	24	N. Al-Akl (P)/W. Melhem
LDEM 202	4	21	Y. Abunnasr (P)/ S. Hage
LDEM 203	3	20	R. Zurayk
LDEM 207	3	19	C. Bengs
LDEM 220	1	29	M. Fabian
LDEM 228	6	22	M. Trovato (P)/ R. Shibli
LDEM 230	3	37	N. Farajalla
LDEM 241	4	20	Y. Abunnasr/ N. Al-Akl/ M. G. Trovato
LDEM 246	6	28	N. Al-Akl (P)/ R. Mezher/ Y. Choueiri
LDEM 247	3	30	N. Farajalla
LDEM 248	3	41	W. Melhem
LDEM 260	3	12	M. Chahine
LDEM 264	3	23	G. Battikha
LDEM 291	3	23	H. Nader (P)/ W. Melhem
LDEM 292	2	16	N. Al-Akl
LDEM 633	3	8	C. Bengs

• Student Enrolment - Spring 2013-2014

Course	Credits	Enrolment	Instructor(s)
LDEM 201	4	20	N. Al-Akl (P)/ R. Mezher/ S. Moosavi
LDEM 204	6	28	R. Shibli (P)/ B. El-Amine/ S. Moosavi (Section 1)
LDEM 204	6	20	C. Bengs (P)/ Marlene Chahine (Section 2)
LDEM 207	3	18	C. Bengs
LDEM 208	3	15	G. Battikha
LDEM 211	3	18	S.Talhok(P)/ M. Fabian (lab)
LDEM 216	4	21	M. G. Trovato (P)/ H. Chmaitelly
LDEM 217	3	30	R. Zurayk (P)/ M. Fabian (lab)
LDEM 230	3	80	N. Farajalla
LDEM 242	6	20	Y. Abunnasr/ N. Al-Akl/ M.G. Trovato

Course	Credits	Enrolment	Instructor(s)
LDEM 249	4	21	I. Gemayel (Section 1)
LDEM 249	4	20	W. Melhem (Section 2)
LDEM 251	3	21	H. Jaafar
LDEM 263	3	21	Y. Abunnasr
LDEM 290	3	21	N. Al-Akl
LDEM 291	3	18	H. Nader (P)/ W. Melhem
LDEM 292	2	1	N. Al-Akl
LDEM 630	3	13	R. Zurayk

• Student Enrolment - Summer 2013-2014

Course	Credits	Enrolment	Instructor(s)
LDEM 221	1	27	M. Fabian
LDEM 231	3	27	N. Farajalla
LDEM 249	4	27	W. Melhem
LDEM 252	3	20	W. Melhem
LDEM 270	3	28	G. Battikha
LDEM 292	2	22	N. Al-Akl

Completed Theses and Thesis Advising

Eleven students were enrolled in the ECOM program for the academic year 2013-2014, and ten were studying under the supervision of LDEM faculty. Four students defended their thesis and graduated during 2013-2014. In addition, LDEM faculty are serving as co-advisors to one PhD student in Bangor University, Wales, UK (S. Talhouk), one PhD student at the Mediterranean University of Reggio Calabria, Italy (M. G. Trovato); and as committee members to two PhD student in Environmental Engineering at AUB; and as jury member of one PhD student at AgroParisTech, France and the Lebanese University (R. Zurayk), and five Urban Design Masters students at AUB (N. Al Akl (1), Y. Abunnasr (1) and M.G. Trovato(3)). LDEM faculty Y. Abunnasr also serves as thesis advisor to two Urban Design Masters students at AUB.

Completed theses:

MSc student	Thesis or Project Title	Advisor/ Co-advisor	Date of Graduation
Safia Al Ajlan	'Tracking changes in fish abundance across the coast of the Levant: a local ecological knowledge study'	Dr. Michel Bariche (Biology Dep.)	Fall 2013/2014
Farah Al Samarai	'Agricultural atlas of Sinay village'	Dr. Rami Zurayk	Spring 2013/2014
Sara Moledor	'Exploring technical and economic aspects of vermicomposting as a microenterprise in rural communities of Lebanon'	Dr. Salma Talhouk	Spring 2013/2014
Lama Tawk	'Defining environmental and cultural landmarks in Lebanese villages through an integrated public participation GIS method'	Dr. Salma Talhouk	Spring 2013/2014
Manal Ginzarly (Urban Design)	An ecological approach to river front revitalization: the case of Abu Ali River corridor in Tripoli	Dr. Yaser Abunnasr	Spring 2013/2014

Theses In progress:

MSc student	Thesis or Project	Advisor/ Co-advisor	Expected Date of Graduation
Eleni Assaf	Thesis	Dr. Nadim Farajalla	Fall 2014/2015
Rouba Dagher (Urban Design)	Thesis	Dr. Yaser Abunnasr	Spring 2014/2015
Bassam Hamzeh	Thesis	Dr. Salma Talhouk	Summer 2014/2015
Moustapha Itani	Thesis	Dr. Salma Talhouk	Summer 2014/2015
Elias Karaan	Thesis	Dr. Salma Talhouk	Fall 2015/2016
Karim Shaar	Thesis	Dr. Yaser Abunnasr	Spring 2016
Roger Neimeh (Urban Design)	Thesis	Dr. Yaser Abunnasr	Spring 2015

Research

Research Retreat

The department held a research retreat in November 2012 and identified the following current and future topics of interest to be used as a basis for graduate program development and research collaboration between the faculty members:

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

Research Funding

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: Ten grants (six from international funding and four from AUB)
- Total amount of grants: 672,431.34USD (international grants); 32,800USD (AUB funding)

Title	Funded by	Year	PI	USD
Impact of population growth and climate change in Lebanon and Egypt on water scarcity, agricultural output and food security	Regional Partnership on Culture and Development (RPCD) - USAID	July-December 2013	N. Farajalla	\$45,000 (FAFS & IFI)
Nature conservation: developing school guide for extra-curricular nature-related activities	Coca Cola	2012-2013	S. Talhouk	\$92,910 (NCC)
Biodiversity conservation program	Scholl Foundation	2012-2013	L. Choueiri (Co PI: S. Talhouk)	\$10,000 (NCC)
The Palimpsest of agrarian change	London School of Economic (LSE)	2012-2015	R. Zurayk	\$115,234.52 (IGESP)
Development of landscape character assessment as a tool for effective conservation of natural heritage in the Eastern Mediterranean	ENPI CBCMED Project (European Neighbourhood and Partnership Instrument)	2013-2015	M. G. Trovato (PI); Co-investigator: Y. Abunnasr	\$209,286,82 (FAFS)
Landscape Atlas	URB-AUB	2013-2014	M. G. Trovato (Co PI: S. Talhouk)	\$9,800 (FAFS)
The visualized world: controller and controlled	AUB-seed money	November 2013-June 2014	C. Bengs	\$5,000 (FAFS)

Title	Funded by	Year	PI	USD
Lead the Lebanon component in the national partner to the capacity building programme on water integrity in the Middle East and North Africa.	Swedish International Water Institute (SIWI)	2014	N. Farajalla	\$200,000 (IFI)
Deriving a planting medium from solid waste compost and construction, demolition and excavation waste	AUB Funds	July 2014-June 2015	N. Farajalla	\$10,000 (FAFS)
Integrating water management scenarios into urban landscape planning under conditions of uncertainty – the case of Hamra Neighborhood, Beirut	AUB Funds	July 2014-June 2015	Y. Abunnasr	\$8,000 (FAFS)

Publications

In line with the department mission, research agenda and broad research themes listed below, a total number of six 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.

International Refereed Journals (Corresponding/Senior author*)

- **Abunnasr, Y.***, Hamin, E., and Brabec, E. (2013). Windows of opportunity: Addressing climate change through adaptation plan implementation. Journal of Environmental Planning and Management. DOI: 10.1080/09640568.2013.849233. Impact factor for 2013-3.057 (five year 3.545)

- Haddad, E. A., **Farajalla, N.S.***, Camargo, M. Lopes, R. and F. Vieira. (2014). Climate change in Lebanon: Higher-order regional impacts from Agriculture. REGION, Vol. 1 No. 1 (accepted)
- Ghattas, H., Barbour, J., Nord, M., **Zurayk, R.***, Sahyoun, N. (2013). Household food security associated with agricultural livelihoods and diet quality in a marginalized community of rural Bedouins in Lebanon. The Journal of Nutrition. doi: 10.3945/jn.113.176388online . August 14, 2013
- **Zurayk, R.** (2013). Should farmers just say No? Journal of Agriculture, Food Systems, and Community Development. Volume 4, Issue 1, 4pp.ISSN: 2152-0801 online. December 8, 2013. (Regular editorial contributor)
- **Zurayk, R.** (2014). the Fatal synergy of war and drought in the Eastern Mediterranean. Journal of Agriculture, Food Systems, and Community Development. Volume 4(2), 9-13 pp. ISSN: 2152-0801 online. March 17, 2014. (Regular editorial contributor)
- **Zurayk, R.** (2014). the Agrarian limits of the food movement. Journal of Agriculture, Food Systems, and Community Development. Volume 4(3), 9-22 pp. ISSN: 2152-0801 online. June 25, 2014. (Regular editorial contributor)

Book Article or Chapters

- **Makhzoumi, J.** (2015) "the Greening discourse: ecological landscape design and city regions in the Mashreq". In R Saliba (ed) *Reconceptualizing Boundaries: Urban Design in the Arab World*. Ashgate, London (forthcoming)
- **Makhzoumi, J.** (2014) "Is rural heritage relevant in an urbanizing Mashreq? Exploring the discourse of landscape heritage in Lebanon". In I Maffi and R Daher (eds) *The politics and practices of cultural heritage in the Middle East. Positioning the material past in contemporary societies* I.B. Tauris, London, 233-252
- **Maria Gabriella Trovato.** (2014). Chapter in the book 'Multicultural Landscape' (in press)
- **Zurayk, R.*** and Gough, A. (2014). "Bread and Olive Oil: the Agrarian roots of the Arab uprising". In: Gerges, F. (ed). *The New Middle East: protest and revolution in the Arab world*. Cambridge University Press. pp. 107-134. ISBN 978-1-107-61688-2

Abstracts and Conference Proceedings (Corresponding/Senior author *)

- **Abunnasr,Y** 2014. Abstract: Analyzing potential surface areas across land use types for an integrated green infrastructure network in Boston.

Conference proceedings of the 'Resilient Cities 2014' Conference May 29-31, 2014, Bonn, Germany.

- **Farajalla, N.S.***, Haydamous, P., El Hajj R. and S. Kerkezian. 2014. The Lebanese water energy and food nexus: A policy and institutional analysis. Sustainability in the water-energy-food nexus. Synergies and tradeoffs: Governance and tools at various scales, Bonn, Germany 19-20 May, 2014
- **Farajalla, N***, Assaf, E., Bashour, I. and **S. Talhouk.** 2014. Deriving a planting medium from solid waste compost and construction, demolition and excavation waste. European Geosciences Union, General Assembly, Vienna, Austria 27 April – 02 May 2014
- Hoff, H., **Farajalla, N.***, Fritzsche, K., Graham, Ph., and A. Houdret. 2013. Implementing the nexus in the MENA region. 2013 World Water Week - Climate change adaptation and mitigation - promoting coherence, Stockholm International Water Institute, Stockholm September 1 – 6, 2013
- **Trovato, G.M., Farajalla, N.S.*** and O. Truglio. 2014. Gentrification versus Territorialisation: the peri-urban agriculture area in Beirut. International Conference on Peri-urban landscapes: water, food and environmental security, St Leonards. NSW, Australia, July 8 – 11, 2014.
- **Maria Gabriella Trovato**, Abstract at the Sixth Careggi Seminar: 'Common goods from a landscape perspective', Florence 2014
- **Maria Gabriella Trovato**, Abstract at the International Conference ISSRM 2014, Hannover, Germany
- **Maria Gabriella Trovato**, Abstract at the International Conference. Understanding mediterranean landscapes: human vs nature. Turkey, 2014
- Gharios, C., El Nour, S., Mundy, M., **Zurayk, R.** 2014. Transformation rurale, paysage et conflit dans un village du Liban Sud, Sinay. Paper presented at the "Foncier Agricole 2014: Usages, tensions et regulations". Ecole Normale Supérieure, Lyon, France. June 11-12, 2014
- **Zurayk, R.** 2014. the Morning After: the Arab uprisings through an agrarian lens. Paper presented at the annual conference entitled After the 'Arab Spring': Development challenges and solutions. Singapore. May 29-30, 2014.
- Servel, H. et **Zurayk, R.** 2014. Marche, pouvoir et jeux de rôle: Le Rouge libanais résiste dans la vallée de la Beqaa. Paper presented at the International Conference «Agriculture et Géopolitique - Rivalités, Puissance, Coopération». Université de Versailles Saint-Quentin- Guyancourt. February 12-13, 2014.

Other publications

- Kays, W. and **S.N. Talhouk**. 2014. Extracurricular nature related school manual. American University of Beirut, Nature Conservation Center.

Services

Yaser Abunnasr

AUB

- Chair of the ad-hoc committee for the LDEM Program Learning Outcome Assessment
- FAFS representative in the USFC university wide committee
- Member of the ACC FAFS Committee
- Advisor to the AUB wide photography club
- Member of the ad-hoc committee AUBotanic
- Member of the Urban Greening Committee
- Member of the ad-hoc committee for the revision of the LDEM undergraduate program
- Member of the Program Review Committee (PRC)
- Lead faculty member for the design and redevelopment of the Green House project (with S. Talhouk)
- GIS laboratory lead coordinator (with N. Farajalla)
- Jury member for the final year architecture studios
- Member, Undergraduate Curriculum and the Undergraduate Student Academic Affairs Committee
- Lead faculty member, Campus Landscape Sustainable Site Prototype: Coordinator for a landscape research site within the campus intended as a showcase and for awareness purposes for sustainable landscape practices: use of material, alternative energy, native plants, and water management. Site area is approximately 1700m²
- Developed with the third year students an assessment report on the current condition of ARCE with possible visions of the future. Report titled: ARECAP

Others

- Peer reviewer for the Journal "Landscape and Urban Planning"

Nayla Al-Akl

AUB

- Department visibility and students internships coordinator
- Academic advisor for the Landscape Student Society
- Participated in organizing International Landscape Conference for November 2014.
- Coordinator of the department and student participation at the Garden Show Spring festival May 2014.
- Member of the Greenroof Research group
- Member of the Program Review Committee
- Member of the Student-Faculty Committee (LDEM)
- Member of the Master's of Landscape Architecture (MLA) Graduate Program Committee during spring 2013-2014
- Designed proposal for AREC's main lounge building
- Detailed design and design documents for AREC's main lounge renovation.
- Designed the renovation of FAFS, Classroom 203 in Wing A

Christer Bengs

AUB

- Appointed by the Chairperson of the department to prepare a research strategy of the department
- Member of the department sub-committee to develop a new science-based Master's degree related to the landscape architecture profession
- Member of the department sub-committee to prepare a Master's of Landscape Architecture (MLA) proposal

Others

- Participation in international courses: During the month of January 2014, **C. Bengs** was invited as guest lecturer to graduate and postgraduate courses at:

Aalto University/Helsinki (Finland), the Academy of Art, Tallinn (Estonia), and the University of Reggio Calabria (Italy)

Monika Fabian

AUB

- Member of the University for Seniors program (spring 2012- present)
- Coordinate school students visits to the greenhouse area and offer miscellaneous horticultural activities
- Member of the Initiative for AUB Arboretum and 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-AUB)
- Chairperson of the Graduate Ecosystem Management Program Committee – LDEM (2014 – to date)
- Member of the University Senate
- Member of the Senate Committee on Faculty Affairs
- Member of the FAFS Admissions Committee
- Liaison 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

Jala Makhzoumi

AUB

- Member of the ad-hoc LDEM committee for the MLA program development

- Member of the ad-hoc LDEM committee to develop a new science-based Master's degree related to the landscape architecture profession

Others

- Editorial board member for two international journals: Landscape Research, and International Journal for Marine and Island Cultures
- Selected for a film on Arab Women Architects by the Center for the Study of the Built Environment CSBE (<http://www.csbe.org/>)
- profiled on the Women in Architecture at the Aga Khan website: (<http://archnet.org/authorities/2833>)

Salma Talhouk

AUB

- Chairperson, LDEM department (October 2008 – January 2014)
- Associate Dean of FAFS (January 2014-present)
- Member of FAFS Strategic Plan Committee
- Member of the Executive Committee of NCC (AUB's Nature Conservation Center) (2010-present)
- Chair of the ad-hoc committee for the revision of the LDEM undergraduate program
- Chair of the ad-hoc committee for the development of a Master's program at LDEM
- Secretary of Faculty Senate (until January 2014)
- Member of the Office of International Programs Advisory Committee
- Member of FAFS Advisory Committee
- Member of FAFS Administrative Committee
- Member of FAFS Academic Curriculum Committee
- Served as Acting Dean
- Member of the Medicinal Plant Graduate Program Planning Committee

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.
- Promoting ecotourism through the AUB-NCC Baldati Biati project and by signing on December, 2013, the MOU with the Ministry of Tourism adopting the village green maps of Baldati Biati project as national basis for village tourism. The Memorandum aims to achieve cooperation in the field of ecotourism through the exchange of information and expertise, which will ultimately lead to the promotion and development of this sector. The Ministry adopted the findings of the Baldati Biati project as well (biodiversity village award project which has been completed with more than 50 municipalities to encourage local planning through the creation of village green maps)

Maria Gabriella Trovato

AUB

- Member of the FAFS Library Committee
- Member of the FAFS Graduate Studies Committee
- Chair of the ad-hoc committee for the MLA program development
- Coordinator of the landscape student participation at the Landworks Sardinia Workshop 2014
- Brown Bag Seminar, FAFS-AUB, 2014
- Chair of the Library Committee
- Member of the LDEM Student-Faculty Committee

Rami Zurayk

AUB

- Chairperson, Department of Landscape Design and Ecosystem Management (LDEM), (January 2014 – present)
- Member of the Interdisciplinary Programs Committee (2011-present)
- 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 the FAFS Advisory Committee
- Chair of the FAFS Research Committee
- Member of the FAFS Administrative Committee
- Member of the FAFS Academic Curriculum Committee

Others

- Serves on 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 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
- Recent Journal Referee:
 - Book proposal review: CABI Food Security in Developing countries
 - Journal of the Economic and Social History of the Orient
 - Greener journals
 - Journal of Coastal Research

Participation in Workshops and Conferences

Yaser Abunnasr

- Invited speaker to "the Impact of Climate Change on Urban Livelihoods - Spatial Urban Planning and Land Use Tools" Third regional summer school: An introduction to natural resource governance in the Arab Middle East and North Africa which was held in Amman, Jordan (September 1-5, 2013).
- Poster presentation (November 10-11, 2013), First International Conference on Urban Sustainability and Resilience, UCL, London: "Green infrastructure for resilient urban regions: measuring ecosystem services in the urban region of Boston". Abstract was accepted then withdrawn by author.
- Participated in the Kick-off meeting (March 10-12, 2014) and the Landscape experts meeting (March 29-30, 2014) of the ENPI-CBCMED project funded by the EU and entitled "Development of Landscape Character Assessment

as a tool for effective conservation of natural heritage in the Eastern Mediterranean” to which he served as co-PI of the project along with M. G. Trovato representing AUB. He also attended the Landscape Character Assessment (LCA) training from on March 31-April 2. Limassol, Cyprus.

- Participated in the Vulnerability Assessment Task Force on Sensitivity and Adaptive Capacity indicators for the Middle East and North Africa. The Regional initiative for the Assessment of the Impact of Climate Change on Water resources and Socio-Economic Vulnerability in the Arab Region. United Nations House, Beirut, Lebanon, October May 3-5, 2014.
- Attended two events: the “Resilient Cities” 2014 Conference in Bonn, Germany (May 29-31, 2014). The focus was on adapting cities to climate change impacts. The paper presented titled: “Potential of land surface areas across land-uses for ecosystem based adaptation planning”. The second presentation was given during a workshop in New York City (May 21-30, 2014) organized by the Sustainable Adaptive Gradients in the Coastal Environment (SAGE) research group. The topic of the presentation was on using gradients of landscape green infrastructure in climate adaptation planning and design. The significance of this activity was to develop international contacts to mutually submit with the SAGE group a USAID/ PEER grant in November 2014.

Nayla Al-Akl

- Jury member to several design studios on landscape and architecture at AUB and ALBA
- Attended the ASLA Annual Meeting and Expo as the representative of the department visibility, students’ placement and as internship coordinator. The meeting was held at the Boston Convention and Exhibition Center, Boston, USA (November 14-18, 2013). The ASLA (American Society of Landscape Architects) annual meeting and expo is one of the most important and most recognized landscape conferences internationally. It attracts more than 6,000 professionals and students from across the US and the world and provides a series of workshops, education sessions, conferences and a large expo that tackle some of the latest topics and technologies in the field.

Nadim Farajalla

- Organized in collaboration with Issam Fares Institute (IFI) a one day regional conference “Building the Case for Sustainable Transportation in the Arab World” May 21, 2014. Participants included experts from various parts of the region and Europe – MASDAR, American University in Cairo (AUC), AROPE - United Kingdom, and others

- Organized in collaboration with the Issam Fares Institute (IFI) two experts consultation workshops (September 23 and November 1, 2013) and attended one at AUC in Egypt (November 11-14, 2013) as part of a project entitled “Impact of Population Growth and Climate Change in Lebanon and Egypt on Water Scarcity, Agricultural Output and Food Security”. Participants included experts from various agriculture and environmental fields, the American University in Cairo (AUC) research team and representatives from CUMERC (Columbia University Middle East Research Center) based in Jordan. This project is part of the Climate Change and the Environment in the Arab World Program of the Issam Fares Institute (IFI) at AUB.
- Attended and participated in the third meeting of the Vulnerability Assessment Working Group (VA-WG) and also attended and presented at a workshop on policy dialogue on the implementation of the Arab Water Security Strategy and its action plan, held in Amman, Jordan (November 25-28, 2013).
- Participated in a Partnership Round Table and Proposal Development Workshop supporting the development of a proposal on Understanding the Impacts of Climate Change on Water and Agriculture in the Mashreq Region. The meeting was sponsored by the Canadian International Development Research Centre and the International Center for Biosaline Agriculture (ICBA). The meeting was held in Dubai, UAE (February 23- 27, 2014).
- Participated in an international conference entitled “Sustainability in the Water-Energy-Food Nexus” which was held in Bonn, Germany and presented a paper entitled “The Lebanese Water Energy and Food Nexus: A Policy and Institutional Analysis” that he has authored and was accepted for oral presentation (May 19-20, 2014).

Salma Talhouk

- Invited and participated in a national workshop organized by the Ministry of Agriculture (MOA) in cooperation with the Food and Agriculture Organization (FAO) held on May 14, 2014 within the framework of the project: “Optimizing the Use of Plant Genetic Resources for Food and Agriculture for Adaptation to Climate Change”. The aim of the workshop was to receive feedback from key institutions and stakeholders to “finalize and enhance ownership of the national strategy for plant genetic resources for food and agriculture”.
- Coordination of a total of 102 workshops in 16 villages with 133 residents.
- Coordination of a nation-wide workshop in collaboration with the Ministry of Tourism: “Eco-tourism Planning” workshop (December 13, 2013) at

the Glass Lounge of the Ministry of Tourism in Hamra. The participants included eco guides, members of the Lebanese syndicate of tour guides as well as local committees representing villages that participated in the BVA 2011, 2012, and 2014.

Maria Gabriella Trovato

- Participated in the International conference entitled “Multicultural landscapes:
International concepts of landscape & culturally diverse perception, use and values of space and landscape” and presented an abstract entitled “Territories in transitions: Beirut cityscape”. The conference was held in Kassel, Germany (October 9 –11, 2013)
- Participated in the conference on “Addressing the impact of the Syrian refugee crisis on Lebanon”, AUB, Beirut, 2014
- Participated in the Kick-off meeting (March 10-12, 2014) and the Landscape experts meeting (March 28-31, 2014) of the ENPI-CBCMED project funded by the EU and entitled “Development of Landscape Character Assessment as a tool for effective conservation of natural heritage in the Eastern Mediterranean” to which she served as PI of the project representing AUB as one of the partners. Limassol, Cyprus. She also attended the Landscape Character Assessment (LCA) training from March 31 to April 2. Limassol, Cyprus.
- Participated in the Practice Research Symposium (EU branch) to be part of panels to review PhD theses. The symposium was organized by RMIT University of Melbourne, Australia and was held in Ghent, Belgium (April 11-14, 2014).
- Participated in Landworks Sardinia 2014, operative workshop on “Realizing landscape installations inside Sardinia Mediterranean island landscape” as invited Professor of the workshop which was held in Villa Webber in La Maddalena Island, Sardinia. The conference was organized by LandWorks non profit Cultural Association. The workshop participants included landscape architecture students and invited faculty from different countries who realized a number of on-site projects to underline the significance of the landscape, the natural and cultural heritage of Villa Weber with its 100 ha park inside La Maddalena Island. This event also opened new perspectives and opportunities for future development (May 22 –June 1, 2014).
- Organized a six days workshop between AUB and AUC (American University in Cairo) Cultural Landscapes collaboration (April 28-May 3, 2014).

Rami Zurayk

- Participated in a seminar as a key researcher to discuss Habib Ayeb and Ray Bush’s British Academy funded research conducted on “The Arab Spring mission dimensions: Views from the countryside, peasants, agriculture and political protest” in Tunisia and Egypt. The seminar was held in Amman, Jordan (September 27-30, 2014).
- Gave a public talk at Skidmore College, New York (YSA) on April 7, 2014
- Participated in the annual meeting of the Association of American Geographers (AAG) for “Author-Meets-Critic” session to discuss his book “Food, Farming and Freedom: Sowing the Arab Spring”. The AAG meeting was held in Tampa, Florida (USA) (April 8-12, 2014).
- Attended the annual conference organized by the Middle East Institute (MEI) in Singapore entitled “After the ‘Arab Spring’: Development Challenges and Solutions” as an invited speaker (May 29 -30, 2014).

Consultancies

Nayla Al-Akl

- Design proposal for the AREC main lounge building new program and accessibility layout
- Design proposal and coordination for the AREC main lounge renovations

Monika Fabian

- Botanic garden development in Abu Dhabi, UAE

Salma Talhouk

- Botanic garden development in Abu Dhabi, UAE

Maria Gabriella Trovato

- Maria Gabriella Trovato, consultancy work for ESDU, 2014

Strategic Challenges

Four strategic challenges will be tackled this year:

- Finalizing the new graduate Masters of Landscape Architecture program

- Securing accreditation for the new undergraduate Landscape Architecture curriculum
- Securing space for two additional studios and space for jury sessions
- Recruitment of new faculty under current security issues and political situation
- Complete the Bachelor of Landscape Architecture (BLA) program review process
- Receive approval of the registration of the BLA program from NYSED (New York State of Education Department)

C. Department of Nutrition and Food Sciences

Prepared by: Dr. Lara Nasreddine, Chairperson

Highlights

During the period of September 1, 2013 to August 31, 2014, the Nutrition and Food Sciences department witnessed several changes that contributed to its growth and development.

- In November 2013, the undergraduate Nutrition and Dietetics Coordinated Program (NDCP) received US accreditation from the Accreditation Council for Education in Nutrition and Dietetics (ACEND). This accreditation provides a stamp of approval confirming the quality of the department's nutrition education. The NDCP is the first and only nutrition program in the entire Middle East to obtain a US accreditation and the third in the world to receive accreditation outside the US. This prestigious international recognition of the NDCP is a significant compliment to the didactic Nutrition and Dietetics track at NFSC which has also successfully completed an external review last year.
- The NFSC department proposed curricular changes for the NDCP to meet ACEND requirements as well as curricular changes for the Nutrition and Dietetics (ND) to ensure continuing improvement within the program. These curricular changes were approved by the Board of Trustees in May 30, 2014.
- The NFSC department organized a panel discussion entitled "Nutritionists in the Media: the effects of media on nutrition beliefs and choices" as part of a series of events celebrating the accreditation by ACEND.

- A group of researchers at the Nutrition and Food Sciences department, FAFS (Dr. Farah Naja, Dean Hwalla, and Dr. Nasreddine) received a million dollar grant from Qatar Foundation to launch the first Mother and Infant Nutritional Assessment (MINA) cohort study in the Middle East.
- Professor Emeritus Dr. Raja Tannous passed away. Dr. Tannous joined FAFS in 1963 as Assistant Professor of Food Technology and Nutrition and retired as Professor in 2009. Dr. Tannous has served intermittently as Chairperson of the Nutrition and Food Sciences Department (NFSC) for 15 years and as Acting Dean of FAFS for 5 years. Dr. Tannous was appointed as Emeritus Professor in November 16, 2012. He was consultant on food technology to the industry as well as to several international agencies such as FAO, UNICEF and UNIDO where he served as Chairman of the Food Safety Panel that prepared a first draft of a Food Safety Law and Authority for Lebanon. Dr. Tannous served also as the President of the Lebanese Association of Food Scientists and Technologists.
- Dr. Kassaify got approval for a leave without pay effective fall 2014-2015, whereby she will assume the position of Microbiology Manager in Mars company (Dubai).
- Dr. Nasreddine was appointed as Chairperson for the period of three years effective June 2014.
- Dr. Lamis Jomaa joined the department as Assistant Professor in Community Nutrition, effective spring 2014.
- Professor Ewen Todd from the University of Glasgow will join the department as visiting professor in microbiology, effective fall 2014-2015.
- Dr. Kassaify and NFSC faculty members reviewed the summary and follow up recommendations on the program review prepared by Dr. Ali Hajj. These recommendations have been discussed in a conclusive meeting on September 12, 2013 in the presence of Provost Dallal and Dean Hwalla.
- NFSC ad-hoc committee chaired by Dr. Kassaify and including Drs. Abiad, Olabi and Nabhani and Ms. Hamzeh, proposed revisions for the FSMT curriculum for the purpose of certification by IUFOST and accreditation by IFT, and finalized, in collaboration with FEA, the proposal to create a Food Engineering undergraduate degree that allows graduates to enter the Syndicate of Engineers.
- The department invited Dr. Isabelle Romieu as a URB scholar during April 2014. Dr. Romieu is the head of the Nutritional Epidemiology Group at the International Agency for Research on Cancer (IARC) in the World Health Organization. Dr. Romieu delivered three seminars tackling the role of Nutrition in the prevention of cancer.

- Students from the department ranked second in the 8th annual IBDA competition (Student Innovation Initiative) that took place in April 2014.
- NDCP students organized a Fit-a-thon on October 11 and 12, 2013 and a food tasting event on October 3, 2013.
- NFSC faculty members published more than twenty papers in international peer-reviewed journals.
- Seven faculty members received research grants from the University Research Board.
- Faculty members attracted more than eight extra-mural grants (ESCWA, UNICEF, Société des Eaux Minérales Libanaises, WHO, European Union, Coca-Cola and Qatar Foundation). Extramural funding amounted to \$1,461,000.
- More than twenty abstracts and presentations were accepted in regional and international conferences: International Association for Food Protection Annual Meeting (USA), Regional Conference of ESCWA (Morocco), Dubai International Food Safety Conference, Fourth Annual AUB Biomedical Research Day, International Conference on Nutrition and Growth (Spain) and the International Congress of Nutrition (Spain).

Personnel

The NFSC department has thirteen full-time faculty members including three instructors, five part-time faculty members, and eight research assistants out of whom five are appointed on research grants. Thirteen graduate assistants were appointed for the first semester (fall 2013-2014), fourteen for the second semester (spring 2013-2014) and four for the summer session (2013-2014). The department has four 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
Zeina Kassaify	Chairperson, Associate Professor (September 1, 2013 till May 31, 2014) (Leave without pay for one year from May 2014 to May 2015)
Imad Toufeili	Professor
Omar Obeid	Professor
Ammar Olabi	Associate Professor

Lara Nasreddine	Associate Professor, Coordinator of Undergraduate Studies in Nutrition & Dietetics Chairperson (for 3 years effective June 1, 2014)
Mohammad Abiad	Assistant Professor
Lamis Jomaa	Assistant Professor
Farah Naja	Assistant Professor
Marie-Claire Chamieh	Lecturer
Basma Hamadeh	Instructor
Dima El Halabi	Instructor
Rachel Close	Instructor

Part-time Faculty

Jamila Natour	Assistant Professor
Carla Habib	Lecturer
Youssef Habbal	Part-time instructor
Hamza Daroub	Instructor
Reem Hamzeh	Instructor

Research Assistants

Sara Farhat
Monia Hamdan
Reem Hamzeh
Shatha Saredine
Dareen Shatila
Patricia Moughames
Joanna Abi Rizk
Dania Hariri
Darine Hachem

Graduate Assistants

Fall 2013-2014

Graduate Assistant	Major
Hiba Chatila	Nutrition
Jennifer Ayoub	Nutrition

Graduate Assistant	Major
Marah Aqeel	Nutrition
Nadine Najjarine	Food Technology
Nathalie Barakat	Food Technology
Rola Hammoud	Nutrition
Sirine Francis	Nutrition
Rita Jalkh	Food Technology
Ghina Hammoud	Food Technology
Romy Abi Fadel	Nutrition
Mariam Assad	Nutrition
Salma Chouccair	Nutrition
Lara Itani	Nutrition

Spring 2013-2014

Graduate Assistant	Major
Hiba Chatila	Nutrition
Marah Aqeel	Nutrition
Rola Hammoud	Nutrition
Rita Jalkh	Food Technology
Ghina Hammoud	Food Technology
Romy Abi Fadel	Nutrition
Mariam Assad	Nutrition
Salma Chouccair	Nutrition
Lara Itani	Nutrition
Carla Al Mallah	Nutrition
Christelle Cordahi	Nutrition
Marie Elizabeth Ragi	Nutrition
Yasmine Aridi	Nutrition
Line Koleilat	Food Technology

Summer 2013-2014

Graduate Assistant	Major
Ghina Hammoud	Food Technology
Romy Abi Fadel	Nutrition

Graduate Assistant	Major
Salma Chouccair	Nutrition
Yasmine Aridi	Nutrition

Support Staff

Samson Atamian	Pilot Plant Supervisor
Tania Ghannam	Secretary
Samir Touma	Technician
Arsine Derboghossian	Technician

Teaching

Fall Term 2013/2014

Course No.	R	L	C	Inst/Coord	Enrolment
NFSC 220	3	0	3	C. Mourad	33
NFSC 221	3	0	3	M. Chamieh	74
NFSC 222	3	0	3	L. Jomaa	42
NFSC 240	1	3	2	M. Chamieh	49
NFSC 252	3	0	3	Y. Habbal	23
NFSC 261	3	0	3	J. Natour	16
NFSC 265	3	0	3	I. Toufeili	73
NFSC 267	1	3	2	B. Hamadeh	34
NFSC 274	3	0	3	O. Obeid	49
NFSC 277	3	0	3	Z. Kassaify	45
NFSC 282	3	0	3	R. Hamzeh	21
NFSC 283	3	0	3	L. Jomaa	15
NFSC 284A	1	0	1	D. El Halabi	15
NFSC 288	2	3	3	A. Olabi/B. Hamadeh	31
NFSC 292	3	0	3	P. Karam/A. Barhoumi	41
NFSC 294	0	3	1	R. Close	43
NFSC 296	1	0	1	D. El Halabi	20
NFSC 298F	-	-	14	R. Close	15
NFSC 299	-	-	2	F. Naja (Coordinator)	12
NFSC 299	-	-	2	M. Abiad	2
NFSC 299	-	-	2	F. Naja	6

Course No.	R	L	C	Inst/Coord	Enrolment
NFSC 299	-	-	2	I. Toufeil	4
NFSC 300A	-	-	1	O. Obeid	1
NFSC 300B	-	-	2	M. Abiad	2
NFSC 300C	-	-	3	O. Obeid	3
NFSC 301	3	0	3	H. Tamim	9
NFSC 307	3	0	3	F. Naja	8
NFSC 311	3	0	3	N. Hwalla/S. Yazbek	7
NFSC 314	3	0	3	O. Obeid	13
NFSC 370	3	0	3	A. Olabi	3
NFSC 371	3	0	3	M. Abiad	9
NFSC 395	1	0	1	M. Abiad	13
NFSC 396	0	0	0	M. Abiad	1
NFSC 396	0	0	0	F. Naja	1
NFSC 396	0	0	0	L. Nasreddine	1
NFSC 396	0	0	0	O. Obeid	7
NFSC 396	0	0	0	A. Olabi	1
NFSC 396	0	0	0	I. Toufeili	1
NFSC 399			T	M. Abiad	1
NFSC 399			T	A. Olabi	1
NFSC 399A			T	F. Naja	1
NFSC 399A			T	O. Obeid	3
NFSC 399A			T	L. Nasreddine	2
NFSC 399A			T	Z. Kassaify	2
NFSC 399A			T	M. Abiad	1
NFSC 399B			T	M. Abiad	1
NFSC 399C			T	O. Obeid	1

Spring Term 2013/14

Course No.	R	L	C	Inst/Coord	Enrolment
NFSC 220	3	0	3	C. Murad	34
NFSC 221	3	0	3	F. Naja/R. Close	42
NFSC 261	3	0	3	I. Toufeili	55
NFSC 267	1	3	2	B. Hamadeh	36

Course No.	R	L	C	Inst/Coord	Enrolment
NFSC 272	1	3	2	M. Abiad	19
NFSC 278	2	3	3	R. Hamzeh	22
NFSC 284B	1	0	1	D. El Halabi	15
NFSC 285	2	3	3	F. Naja/M. Chamieh	52
NFSC 287	2	0	2	Y. Habbal	60
NFSC 289	0	3	1	B. Hamadeh	29
NFSC 289	0	3	1	H. Daroub	31
NFSC 290	2	3	3	D. El Halabi	37
NFSC 291	3	0	3	M. Abiad	27
NFSC 293	3	0	3	L. Nasreddine	42
NFSC 295	0	3	1	R. Close	43
NFSC 296	1	0	1	L. Jomaa	38
NFSC 298S	-	-	0	R. Close	15
NFSC 299	-	-	2	F. Naja (Coordinator)	46
NFSC 299	-	-	2	M. Abiad	8
NFSC 299	-	-	2	F. Naja	7
NFSC 299	-	-	2	L. Nasreddine	8
NFSC 299	-	-	2	O. Obeid	6
NFSC 299	-	-	2	I. Toufeili	6
NFSC 299	-	-	2	I. Jomaa	5
NFSC 300C	-	-	3	F. Naja	1
NFSC 300C	-	-	3	L. Nasreddine	1
NFSC 300C	-	-	3	I. Toufeili	1
NFSC 306	3	0	3	L. Jomaa	6
NFSC 310	3	0	3	I. Toufeili	8
NFSC 315	3	0	3	O. Obeid	8
NFSC 351	3	0	3	Z. Kassaify	12
NFSC 377	3	0	3	M. Abiad	9
NFSC 391	3	0	3	Y. Mouniemeh	7
NFSC 395	1	0	1	O. Obeid	7
NFSC 396	0	0	0	L. Nasreddine	1
NFSC 396	0	0	0	O. Obeid	2
NFSC 399			T	F. Naja	1

Course No.	R	L	C	Inst/Coord	Enrolment
NFSC 399			T	O. Obeid	3
NFSC 399A			T	M. Abiad	1
NFSC 399A			T	L. Nasreddine	1
NFSC 399A			T	O. Obeid	5
NFSC 399B			T	F. Naja	1
NFSC 399B			T	L. Nasreddine	2
NFSC 399B			T	O. Obeid	3
NFSC 399B			T	Z. Kassaify	2
NFSC 399C			T	M. Abiad	1

SUMMER TERM 2013/14

Course No.	R	L	C	Inst/Coord	Enrolment
NFSC 225A	0	0	0	D. Halabi	21
NFSC 229	0	3	1	M.C. Chamieh	25
NFSC 261	3	0	3	I. Toufeili	19
NFSC 280	-	-	1	M. Abiad	21
NFSC 300B	-	-	2	M. Abiad	2
NFSC 395	1	0	1	L. Nasreddine	1
NFSC 396	-	-	0	F. Naja	2
NFSC 396	-	-	0	L. Nasreddine	1
NFSC 396	-	-	0	I. Toufeili	1
NFSC 399			T	N. Farah	2
NFSC 399			T	O. Obeid	1
NFSC 399A			T	O. Obeid	1
NFSC 399B			T	L. Nasreddine	1
NFSC 399B			T	O. Obeid	4
NFSC 399B			T	A. Olabi	1
NFSC 399C			T	L. Nasreddine	1

Completed Theses

A total of fourteen theses were completed in 2013-2014 as below:

1. Talar Fossian, Lara Nasreddine (Advisor), Complementary feeding and breastfeeding practices in a rural community of Lebanon. (September 2013).
2. Hoda Hadavi, Farah Naja (Advisor), Association between dietary patterns and the risk of the multiple sclerosis among Tehranian adults: A case control study in Tehran, Iran. (September 2013).
3. Katherine Jaafar, Imad Toufeili (Advisor), Comparative antioxidant capacities of the phenolic extracts of Lebanese floral and honeydew honeys. (September 2013).
4. Hiba Nashef, Imad Toufeili (Advisor), Estimation of the relative contributions of intrinsic and extrinsic cues to the purchase intent of honey. (September 2013).
5. Omar Dib, Mohamad Abiad (Advisor), The effect of solvent polarity on the properties of activated cyclodextrin based metal organic framework crystals (CD-MOFS). (January, 2014).
6. Marwa Hassan, Omar Obeid (Advisor), Determining the postprandial metabolites and hormonal status after ingestion of glucose with or without phosphorus preload. (January, 2014).
7. Murielle Abou Samra, Omar Obeid (Advisor), Premeal phosphorus supplementation for reducing energy intake and body weight. (May 2014).
8. Marah Aqeel, Omar Obeid (Advisor), Children's experiences of food insecurity in Lebanon – A qualitative study. (May 2014).
9. Mariam El Halabi, Omar Obeid (Advisor), The role of dietary phosphorus on the development and progression of high fat diet induced non-alcoholic fatty liver disease in rats. (May 2014).
10. Maya El Mokdad, Zeina Kassaify (Advisor), Implementing a traceability system in a small to medium dairy plant in Lebanon with isolation and characterization of staphylococcus aureus. (May 2014).
11. Jinane Makki, Omar Obeid (Advisor), The effect of phosphorous manipulation on the progression of non-alcoholic fatty liver disease in rats maintained on a high fructose diet. (May 2014).
12. Nathalie Joy Malek, Mohamad Abiad (Advisor), Antimicrobial activity of *Origanum Ehrenbergii* extracts on resistant bacterial strains. (May 2014).
13. Nadine Najjarine, Mohamad Abiad (Advisor), Effect of silica on the properties of polyvinyl alcohol mano-composite membranes. (May 2014).

14. Angie Saliba, Lara Nasreddine (Advisor), Overweight and obesity among preschool aged children in Lebanon: Prevalence and associated factors. (May 2014).
15. Racha Zgheib, Lara Nasreddine (Advisor), Infant and young child feeding practices in Lebanon”: A national cross-sectional study. (June 2014).

Research Funding

Faculty members attracted more than eight extra-mural grants (ESCWA, UNICEF, Société des Eaux Minérales Libanaises, WHO, European Union, Coca-Cola and Qatar Foundation). Extramural funding amounted to \$1,461,000.

Internal Grants

University Research Board (URB)

Seven members of the department received URB grants as below:

- Abiad, Mohamad. The effect of solvent polarity and different activation methods on the surface area of cyclodextrin metal organic frameworks. (Principal Investigator).
- Abiad, Mohamad. The possibility to incorporate tire waste and waste oil in asphalt binders. The study is entitled: “Green Asphalt Concrete: Incorporation Tire and Waste Oil in Asphalt Binders”. (Co-Investigator).
- Kassafy, Zeina. Inhibitory effects of encapsulated curcumin in liposomes on *Salmonella* spp, *E.coli*, *Listeria monocytogenes* and *Staphylococcus aureus*. (Principal Investigator).
- Naja, Farah. Use of complementary and alternative medicine among HIV patients in Lebanon. (Principal Investigator).
- Nasreddine, Lara. Correlates of overweight and obesity amongst Lebanese preschool children. (Principal Investigator).
- Obeid, Omar. Dose response effect of phosphorus on postprandial lipemia in healthy subjects. (Principal Investigator).
- Toufeili, Imad. Contribution of the phenolic fraction to the antioxidant activity of floral and honeydew honeys. (Principal Investigator).
- Olabi, Ammar. Effect of food acceptability on appetite hormones’ response in normal weight male subjects. (Principal Investigator). Nahla Hwalla (Co-Investigator).

- Olabi, Ammar. Effect of salt reduction on dough and Arabic bread characteristics. (Principal Investigator). Imad Toufeili (Co-Principal Investigator).

Local, Regional and International Grants

- Abiad, Mohamad. Grant from the Munib & Angela Masri Institute of Energy and Natural Resources, American University of Beirut: Design a solar energy operated brooder to improve food security of small-holder poultry farmers in rural Lebanon. (Principal Investigator).
- Abiad. Grant from the European Union under the Seventh Framework Programme (FP7) for the project entitled: “MOSAIC – Co-operation with Mediterranean partners to build opportunities around ICT and societal and industrial challenges of Horizon 2020”. (Co-Investigator).
- Abiad, Mohamad. Travel and training grant from the Chinese Academy of Sciences (CAS), the Centre of Excellence for Biotechnology (CoEBio) and the World Academy of Sciences (TWAS) for the advancement of science in developing countries to attend the “2013 Food biotechnology training course for developing countries”.
- Abiad, Mohamad. Grant from the United Nations Economic and Social Commission for Western Asia (UN-ESCWA) to establish energy efficient poultry house as a showcase of various renewable energy applications at AREC-AUB. (Co-investigator).
- Jomaa, Lamis. FAFS Seeds grant (fall 2013-2014)
- Jomaa, Lamis. Grant from UNICEF for a training workshop that served also as a pilot research project titled “Development and implementation of training modules for the optimal use and implementation of food- based dietary guidelines developed for Lebanese adults”. Project completed in May 2014.
- Jomaa, Nasreddine and Naja. Funding agency: Société des Eaux Minérales Libanaises s.a.l (SEML) . Study on Water and beverage consumption among children aged 4-13 years in Lebanon. (Co-Investigators).
- Naja. Grant from the Qatar National Research Fund (QNRF). Mother and child cohort: towards curbing the NCD epidemic in Qatar and Lebanon. (Principal Investigator). Nasreddine (Co-Principal Investigator).
- Nasreddine and Naja. Grant from Nestle Middle East. Enhancing health through nutrition: the nutrition in Arab youth (NAY) project. (Co-PIs).
- Nasreddine and Abiad. Grant from the American University of Beirut Medical Center (AUBMC), Office of the Dean. Assessment of BPA levels

and their association with the health status among the Lebanese population. (Co-Investigators).

- Nasreddine (PI). Grant from WHO: the Validation of a food frequency questionnaire for the assessment of sodium dietary intake using 24-hour urine sodium excretion in Lebanese adults. (Principal Investigator). Naja (Co-Principal Investigator).
- Nasreddine. Grant from Coca-Cola Foundation. Evidence-based nutrition intervention program/Early life nutrition and health (ELNAHL) project (Part 2). (Principal Investigator). Naja (Co-Principal Investigator).
- Nasreddine and Abiad. Grant from the Medical Practice Plan (MPP), American University of Beirut Medical Center. Association of BPA levels with estrogen receptors promoter methylation. (Co-Investigators).
- Nasreddine and Abiad. Grant from the Munib Shahid Memorial Fund. Prevalence of vascular risk factors and their association with urinary Bisphenol. (Co-Investigators).
- Obeid, Omar. UNICEF. Nutrition in Emergency training workshop.

Publications

Twenty-one articles were published in international referred journals by the NFSC members as indicated below:

International Refereed Journals (Corresponding/Senior author *)

1. Abiad, M.G.*, Campanella, O.H., and Carvajal, M.T. (2014). Effect of spray drying conditions on the physicochemical properties and enthalpy relaxation of α -lactose. *International Journal of Food Properties*, 17 (6): 1303-1316 doi:10.1080/10942912.2012.710287.
2. Atamian, S., Olabi, A.*, Kebbe Baghdadi, O., and Toufeili, I. (2014). The characterization of the physicochemical and sensory properties of full-fat, reduced-fat and low-fat bovine, caprine, and ovine Greek yogurt (Labneh). *Food Science & Nutrition*, 2(2): 164–173.
3. Ayasso, R., Ghattas, H., Abiad, M.G., and Obeid, O*. (2014). Meal pattern of male rats maintained on amino acid supplemented diets: the effect of Tryptophan, Lysine, Arginine, Proline and Threonine. *Nutrients*, 6: 2509-2522. doi:10.3390/nu6072509.
4. El Mallah, C. and Obeid, O*. (2014). Dietary lipid supply in Lebanon: does it fit the Mediterranean diet profile? *Lipid Technology* 26(6): 127-129. doi: 10.1002/lite.201400031.

5. El Mogharbel, O., Ghali, K., Ghaddar, N.*, and Abiad, M.G. (2014). Simulation of a localized heating system for broiler brooding to improve energy performance. *International Journal of Energy Research*, 38 (1): 125-138 doi:10.1002/er.3023.
6. Fawaz, H., Abiad, M.G., Ghaddar, N.* and Ghali, K. (2014). Solar assisted localized ventilation system for poultry brooding. *Energy and Buildings*, 71: 142-154. doi:10.1016/j.enbuild.2013.12.021.
7. Francis, F., Talhouk, S., Batal, M., and Olabi, A*. (2014). Sensory and quality parameters of raw and processed Chicory-Hindbeh, a commonly consumed dark leafy green in Lebanon (*Cichorium intybus* L.) during frozen storage. *LWT-Food Science and Technology*, 58: 230-238.
8. Hamade, H., Naja, F., Keyrouz, S., Hwalla, N., Karam, J., Al-Rustom, L., and Nasreddine, L*. (2014). Breast feeding knowledge, attitudes, perceived behavior and intentions among female undergraduate university students in the Middle-East: the case of Lebanon and Syria. *Food and Nutrition Bulletin*, 35(2): 179-190(12).
9. Hassan, H. and Kassaify, Z*. (2014). Risks associated with Aflatoxins M1 occurrence in Lebanese dairy products. *Food Control*, 37: 68-72.
10. Hazim, J., Hlais, S., Ghattas, H., Shatila, D., Bassil, M., and Obeid, O*. (2014). Phosphorus supplement alters postprandial lipemia of healthy male subjects: a pilot cross-over trial. *Lipids in Health and Disease*, 13(1):109.
11. Jarrar, SF. and Obeid, O*. (2014). Timing of caffeine ingestion alters postprandial metabolism in rats. *Nutrition*, 30: 107-111. DOI: 10.1016/j.nut.2013.07.015.
12. Lammert, A., Olabi, A.*, Kalache, L., K. Brooks and P. Tong. (2014). Characterization of the sensory properties of whey protein concentrates. *International Journal of Dairy Science & Technology*, Vol 67, Issue 1, pages 135–141.
13. Naja, F., Hwalla, N., Fossian, T., Zebian, D., and Nasreddine, L*. (2014). Validity and reproducibility of the Arabic version of the household food insecurity access scale in rural Lebanon under review, *Public Health Nutrition* (R2) Apr 4:1-8.DOI: <http://dx.doi.org/10.1017/S1368980014000317>.
14. Naja, F., Mousa, D., Alameddine, M.*, Shoaib, H., Itani, L., and Mourad, Y. (2014). Prevalence and correlates of complementary and alternative medicine use among diabetic patients in Beirut, Lebanon: a cross-sectional study. *BMC Complementary and Alternative Medicine*, 14(1):185.
15. Naja, F., Nasreddine, L.*, Itani, L., Dimassi, H., Sibai, A., and Hwalla, N. (2014). Dietary patterns in cardiovascular diseases prevention and

management: review of the evidence and recommendations for primary care physicians in Lebanon. *Lebanese Medical Journal*, 62: 92-99.

16. Nasreddine, L., Naja, F., Akl, C., Chamieh, MC., Karam, S., Sibai, AM., and Hwalla, N.* (2014). Dietary, lifestyle and socio-economic correlates of overweight, obesity and central adiposity in Lebanese children and adolescents. *Nutrients*, 6: 1038-1062; doi:10.3390/nu6031038.
17. Nasreddine, L., Naja, F., Sibai, AM., Helou, K., Adra, N., and Hwalla, N*. (2014). Trends in nutritional intakes and nutrition-related cardiovascular disease risk factors in Lebanon: the need for immediate action. *Lebanese Medical Journal*, 62: 83-91.
18. Obeid, O.*, Hachem, D., and Ayoub, J. (2014). Refeeding and metabolic syndromes: two sides of the same coin. *Nutrition & Diabetes*, 4(6), e120. doi:10.1038/nutd.2014.21.
19. Alameddine, M., Nasreddine, L., Hwalla, N., Mourad, Y., Shoaib, H., Mousa, D. and Naja, F*. (2013). Factors associated with consulting a dietitian for diabetes management: A cross-sectional survey design. *BMC Health Services*, 13:504. doi: 10.1186/1472-6963-13-504.
20. Isma'eel, HA.*, Harbieh, B., Tamim, H., Nasreddine, L., Naja, F., Sibai, A., Adra, N., Badr, K., and Hwalla, N. (2013). Discrepancies between two lipid-lowering guidelines for CVD prevention in seemingly healthy individuals-case study Lebanon. *Cardiovascular and Diagnosis Therapy*, 3:129-136.
21. Kathuria, A., Abiad, M.G., and Auras, R.* (2013). Toughening of poly(L-lactic acid) with Cu3BTC2 metal organic framework crystals. *Polymer*, 54 (26): 6979-6986. doi:10.1016/j.polymer.2013.11.005.

Abstracts and presentations

More than twenty abstracts and presentations were accepted in Regional and International Conferences.

1. Abiad, M., Malek, NJ., Harastani, H., Hamzeh, R., and Kassaify, Z. Emergence of heat-resistant salmonella and escherichia coli isolated from foodproducts. International Association for Food Protection (IAFP) Annual Meeting 2014. Indianapolis, IN, USA. August 2014.
2. Bassil, M., Ayoub, J., Abou Samra, M., and Obeid, O. Phosphorus supplementation for 3 months decreases body weight and waist circumference of overweight and obese subjects. ESPEN Congress 2014.
3. Hajj Ahmad, R., Chalak, A., Olabi, A., and Toufeili, I. Choice of Greek style yogurt is affected by its sensory properties and the eating patterns of consumers. Abstract accepted, to be presented as a poster at the 6th European Conference

on Sensory & Consumer Research: EuroSense 2014, Copenhagen, September 7-10, 2014.

4. Hwalla, N., Nasreddine, L., Naja, F., Hachem, D., Dimassi, H., and Yazbeck, N. Anthropometric measurements as predictors of metabolic syndrome in Lebanese children and adolescents, 2nd International Conference on Nutrition and Growth, Barcelona, Spain. January 30 – February 1, 2014.
5. Isma'eel, H., Sakr, G., Fathallah, J., Almedawar, MM., Bou Zein Eddine, S., Al-Shaar L., Al Harith, D., Kayrouz, S., Nasreddine, L., and El Hajj, I. Artificial Intelligence modeling using clinical features, knowledge and attitude predicts salt reduction behavior. Fourth Annual AUB Biomedical Research Day, Beirut, Lebanon, February 16, 2014.
6. Isma'eel, H., Nasreddine, L., Fathallah, J., Almedawar, MM., Garabidian, T., Kayrouz, S., Al-Shaar, L. Knowledge, attitudes and behaviors related to sodium intake of high risk Lebanese adult patients. Fourth Annual AUB Biomedical Research Day, Beirut, Lebanon, February 16, 2014.
7. Kalache, L., Olabi, A., and Toufeili, I. Shelf life tracking of a ready to drink UHT chocolate milk. Institute of Food Technologists Annual Meeting, New Orleans, June 21-24, 2014.
8. Kamleh, R., Olabi, A. Toufeili, I., Daroub, H., Younis, T., and Ajib, R.. The effect of partial substitution of NaCl with KCl on the physicochemical, microbiological and sensory properties of Akkawi cheese. Institute of Food Technologists Annual Meeting, New Orleans, June 21-24, 2014.
9. Naja, F, Rahman, S, Nasreddine, L, Yunis, K., Clinton, M., Nassar, A., Farhat Jarrar, S., Moghames, P., Ghazeeri, G., Fakhouri, H., Chahine, R., Hassan, A., Al Thani, A., Hwalla, N. Mother and Infant Nutritional Assessment (MINA) cohort study: Aim, Protocol and Significance, 2nd International Conference on Nutrition and Growth, Barcelona, Spain, January 30 – February 1, 2014.
10. Naja, F., Nasreddine, L., Moghames, M., Hammami, N., Shoaib, H., and Hwalla, N. Validity and reproducibility of a food frequency questionnaire for the assessment of dietary intake among Lebanese children (5 - 10 Years). 2nd International Conference on Nutrition and Growth, Barcelona, Spain. January 30 – February 1, 2014.
11. Kassaify, ZG., Hamzeh, R., Harastani, H., Ajjour, C., Farah, M., and Abiad, M. Molecular typing and probiotic attributes of *Lactobacillus casei* isolated from fermented goat cheese (Anbaris). International Association for Food Protection (IAFP) Annual Meeting 2014. Indianapolis, IN, USA. August 2014.

12. Obeid, O., Hassan, M., Ghattas, H., and Hlais, S. The effect of phosphorus ingestion on postprandial hormonal status of overweight and obese subjects. *Obesity Facts* 2014;7(suppl 1):67.
13. Olabi, A., Neuhaus, T., Bustos, R., Cook, M., and Erps, T. An investigation of flavor complexity and food neophobia. Institute of Food Technologists Annual Meeting, New Orleans, June 21-24, 2014.
14. El-Mokdad, M., Kassaify, Z., and Abiad, MG. Implementation and viability of traceability systems in small and medium dairy processing plants in Lebanon. The 8th Dubai International Food Safety Conference, Dubai, UAE. November 2013.
15. Hamdar, N., Kassaify, Z., and Abiad, MG. Food safety knowledge and practices at the home of Lebanese consumers and its association with the level of risk. The 8th Dubai International Food Safety Conference, Dubai, UAE. November 2013.
16. Hamzeh, R., Kassaify, Z., and Abiad, MG. Molecular typing and probiotic attributes of lactic acid bacteria strains isolated from Labneh Anbaris. The 8th Dubai International Food Safety Conference, Dubai, UAE. November 2013.
17. Hwalla, N., Nasreddine, L., Naja, F., Mehio Sibai, A., and Adra, N. Overweight, obesity, and early-life feeding practices among under-five children in Lebanon, IUNS 20th International Congress of Nutrition. Granada, Spain. September 15-20, 2013.
18. Salam, D., Abiad, M., Ghaddar, N., Ghali, K., and Chehab, C. An energy efficient poultry house for boiler production: A showcase. Regional Conference on Renewable Energy and Sustainable Development in Rural Areas of the ESCWA Region. Rabat, Morocco. November 2013.

Services

Mohammad Abiad

AUB

- Elected member of the Graduate Studies Committee
- Elected member of the Faculty Undergraduate Admissions Committee
- Member of the Faculty Library Committee
- Member of the Student Representative Committee
- Elected FAFS representative in the Board of Graduate Studies

- Elected member of Nature Conservation Center Executive Committee
- FAFS representative in the Teaching Excellence Award Committee
- FAFS representative in the Writing Center Advisory Board
- Member of the Senate Admissions Committee
- FAFS representative in the K.A.S. Central Research Science Laboratory Steering Committee
- FAFS representative in the Interfaculty Financial Aid Committee
- Chair of the IBDA (Student Innovation Initiative) Organizing Committee
- Member of the Unified University Admissions Committee
- Member of the Nature Conservation Center for Sustainable Futures

Other services

Reviewer for the following journals:

- International Journal of Food Properties
- Food and Bio-process Technology
- Foodborne Pathogens and Disease
- Journal of Food Engineering Reviews

Lamis Jomaa

AUB

- Member of the Master's program in Rural Community Development Committee (representative of the Department of Nutrition and Food Sciences).
- Assisted in developing the syllabus for one of the nutrition security courses/modules to be offered as part of the newly launched Food Security Program at the FAFS.

Others Services:

- Organized and monitored the implementation of various community projects in collaboration with international and local NGO's related to the Syrian refugee crisis in Lebanon. Activities included anthropometric and nutritional assessments, development of educational materials, conducting educational campaigns and activities, and development of screening tools

and materials to assist in monitoring quality of health educational services related to infant young child feeding practices (IYCF).

Zeina Kassaify

AUB

- Chairperson, Nutrition and Food Science Department
- Chair, Clinical and Sports Nutrition position search committee
- Member, Nutrition and Food Science- Coordinated Program (CP) Committee to meet ACEND accreditation standards
- Member/Co-Chair, Nutrition and Food Science- Program Review Committee
- Sought and led the development of the culinary workshop at the Nutrition and Food Science department
- Developed and organized the Food Safety certification, ServSafe, offered by the National Restaurant Association Educational Foundation- USA to graduating students twice a year.
- Advisor, Food Science Society
- Member, Steering Committee for the Development of the Doctoral Veterinary Medicine (DVM) Degree Program jointly with the Faculty of Medicine
- Chairperson of the FAFS Student Affairs Committee
- Member, Administrative Committee
- Member of the FAFS Academic and Curriculum Committee
- Member of the FAFS Graduate Studies Committee
- Member of the Interfaculty Committee for Capacity Building in Food Security
- Member of the Food Service Committee
- Member of the Periodic Review Report Committee
- Faculty representative, Capital Budget Committee
- Faculty representative of the University Committee on Student Affairs
- Member of the University Student Faculty Committee
- Member of the IBSAR Research Committee

Other services

- Affiliate Executive Officer and Delegate, International Association for Food Protection (IAFP)
- President of the Lebanese Association for Food Safety
- Member of IBSAR (Center for Nature Conservation and Sustainable Futures)
- Member of the Ministry of Agriculture Committee for Fresh and Frozen Meats and Poultry
- Member of UNIDO Food Safety Panel for Food Safety Law
- Reviewed for the CNRS, Lebanon
- Reviewed for the Journal of Science of the Total Environment (STOTEN)
- Reviewer:
 - WHO Eastern Mediterranean Health Journal
 - Nutrition and Metabolic Insights
- Reviewer for University Research Board, American University of Beirut
- Microbiological Analysis:
 - Roaster Diner, December, 2013
 - Sukleen, December, 2013
 - Roaster Diner, November, 2013.

Farah Naja

AUB

- Member of the committee to develop the graduate program in Integrative Health, AUB.
- Member of FAFS Research Committee
- Member of FAFS Graduate Studies Committee
- Member of the AUB Wellness Committee
- Assistant Marshall in Commencement Ceremony (2013-2014)
- Member of the Vascular Medicine Program (AUB)
- Member of the Population Health and Nutrition Study group (PHANS) (AUB)
- Member of the Food Security and Policy in the Middle-East (FSPME) (AUB)

- Member of the International Breast Cancer Network (IBCN), Purdue, USA
- Dr. Naja replaced Dr. Nasreddine, who was on maternity leave, as temporary member of the Social and Behavioral Institutional Review Board (IRB) (during the fall 13-14).

Other services

- Planned and organized a Lebanese Breast Cancer and Nutrition Awareness Day (November 2013)
- Member of the National Nutrition Colloquium Examination Committee
- Reviewed four articles for the two journals :Nutrition Journal and Lebanese Medical Journal
- Member of the Lebanese Academy for Nutrition and Dietetics (LAND)
- Member of the Canadian Society for Nutrition, Toronto, Canada

Lara Nasreddine

AUB

- Chairperson of the NFSC department since June 1, 2014
- Coordinator of the Nutrition and Dietetics Undergraduate Program
- Member, Nutrition and Food Science - Coordinated Program (CP) Committee to meet ACEND accreditation standards
- Examiner on a PhD thesis entitled "Relations entre conditions de vie et état nutritionnel dans une population de personnes âgées vivant à domicile en milieu rural au Liban", Ecole Doctorale « Sciences et Santé », Université Saint Joseph, Beyrouth, Liban.
- Member, Nutrition and Food Science - Coordinated Program (CP) Committee
- Member of the Search Committee for the Clinical and Sports Nutrition position
- Member of the Search Committee for the Community Nutrition Position
- Member of the Students' Affair Committee (FAFS)
- Member of the Administrative Committee (FAFS)
- Assistant Marshall in Commencement Ceremony
- Member of the Vascular Medicine Program (VMP) Executive Council

- Member of the University Senate
- Full member of the Social and Behavioral Institutional Review Board (IRB) (till June, 2014)
- Member of the Biomedical Sciences PhD Committee
- Member of the Campus Residents Committee
- Member of the Lebanese Action for Salt and Health at AUB
- Member of the International Breast Cancer and Nutrition team
- Member of the Population Health and Nutrition Study group (PHANS) at AUB
- Member of the Food Security and Policy in the Middle-East (FSPME) at AUB

Other services

- Member of the Advisory Committee of the Faculty of Health Sciences , Beirut Arab University
- Board Member of the National Nutrition Colloquium Examining Committee
- Member of the National Health Committee, Higher Council for Childhood (Ministry of Social Affairs)
- Review Editor for Frontiers in Nutrition and Environmental Sustainability
- Reviewer for the following International refereed journals:
 - PLOS one
 - Journal of Nutrition Education and Behavior
 - International Journal of Public Health
- Reviewer for :
 - The Lebanese Science Journal
 - Medical School Gant Program, AUB
- Conducted a dietary exposure assessment to Natamycin, based on a request from LIBNOR.
- Member of the World Action on Salt & Health (WASH)
- Member of the Lebanese Academy for Nutrition and Dietetics (LAND)
- Member of the American Society for Nutrition
- Member of the Nutrition Society

Omar Obeid

AUB

- Member of the University IRB committee
- Member of IBSAR

Others Services

- National Coordinator for ICCIDD Global Network for Lebanon
- Full member of the Nutrition Society, UK
- Member of the Lebanese Academy for Nutrition and Dietetics (LAND)
- Member of the Advisory Committee for the Arab Center of Nutrition
- Member of the editorial board: Arab Journal of Food and Nutrition
- Member of MENANA (Middle East and North Africa Nutrition Association)
- Reviewer for:
 - Eastern Mediterranean Health Journal (EMHJ)
 - Journal of Biological Sciences
 - Journal of Saudi Society for Food and Nutrition
 - Endocrinology & Metabolic Syndrome
 - Nutrients
 - Journal of Applied Physiology
 - Plos one
 - Public Health Nutrition
 - Abstracts for EcoHealth 2014. August 11-15, 2014.
- Member of the Nutrition in Emergencies Training Network (NIETN)
- Member of the Editorial Advisory Board, Canadian Journal of Clinical Nutrition
- Member of the Editorial Board, ISRN Nutrition
- Evaluated several IRB projects
- Member of UNICEF (Lebanon) Nutrition Technical Committee
- Consultant to IOCC on Nutrition in Emergency
- Nutrition consultant: International Medical Corps (IMC), Jordan (2 months)

- Evaluated promotion file for Al-Quds University

Ammar Olabi

AUB

- Member of the FSMT Accreditation Committee
- Member of IBSAR (Nature Conservation Center for Sustainable Futures)
- 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)

Others

- Member of the Committee for Milk and Milk Products - Ministry of Agriculture
- Member of the Agro Industry Committee - Ministry of Agriculture
- Member of the National Codex Alimentarius Committee
- Member of the World Action on Salt & Health (WASH)
- Reviewer for:
 - Journal of Food Science
 - Journal of Dairy Science
- Member of the Institute of Food Technologists (Sensory and Quality Assurance divisions)
- Member of the American Dairy Science Association
- Regular Guest Lecturer in AGSC 201 and recently AGSC 236 (Fall 2012-13)

Imad Toufeili

AUB

- Member of FAFS Advisory Committee
- Member of FAFS Graduate Studies Committee
- Coordinator of Graduate Studies
- Member of the organizing committee and FAFS representative on AUB Open House Graduate Day

- Member of the University Publications Committee
- Member of the Advisory Committee of the Center on Teaching and Learning
- Member of the University ad-hoc Committee on Graduate Assistantships

Others

- Reviewer for the Journal Food Processing & Preservation
- Head of jury of a Ph.D. student registered at University of Lorraine

Attended Meetings, Workshops and Seminars

Lamis Jomaa

- Presented a talk within the Public Health Nutrition session organized by the Issam Fares Institute for Public Policy and International Affairs, as part of a policy forum “Addressing the Impact of the Syrian Refugee Crisis on Lebanon.”
- Organized and lead a three-day training workshop with a team of dietitians and nutrition educators on the optimal implementation and use of the Food Based Dietary Guidelines developed for Lebanese Adults.
- Completed successfully three weeks of intensive course titled “Integrated Course in Clinical Epidemiology and Biostatistics” at the Harvard School of Public Health (June 2014) funded through the SHARP program at AUB – Fogarty International NIH grant.
- Attended sessions within the IDEAL ‘Research Funding and Grant Writing conference’ organized by the OGC at AUB in collaboration with the Tempus program. February 20-21, 2014.
- Attended the IBCN (International Breast Cancer Nutrition) conference at AUB on Breast Cancer. Friday October 25th.

Lara Nasreddine

- Consultants’ meeting on the “Finalization of Study Protocols for the Assessment of Body Composition and Total Daily Energy Expenditure”, IAEA, Vienna (May 15-16, 2014).
- Delivered a presentation titled “Consumer’s salt intake and awareness levels in Lebanon” in the context of the seminar/workshop held at the Ministry of Industry on Wednesday August 6, 2014, as part of the national campaign to decrease salt intake.

- Gave a lecture titled “Be Salt Aware” in the context of the “Heart Attack Prevention Workshop”. University for Seniors, November 27, 2013, American University of Beirut, Lebanon (Invited Speaker).
- Attended 4th Annual AUB Biomedical Research Day, organized by AUBMC and acted as a Jury Member, February 15, 2014.

Omar Obeid

- Organized, in collaboration with the Centre for International Health and Development at University College (London) a training course on “Nutrition in Emergencies”. This course hosted health and nutrition professionals and was funded by UNICEF, May and June 2014.
- Attended a workshop on “Commercialization Concepts’ organized by The Center for Innovation and Technology, May 6; 2014
- Invited by International Medical Corps to join a Consultation Group of key stakeholders in support of “Building a Better Response: Strengthening Non-Governmental Organization (NGO) Capacity and Engagement in the International Humanitarian Architecture” project. Dubai, March 4, 2014
- Attended the Nutrition and Food Research Day: Trends and Challenges in the Middle East. Lebanese American University, Beirut Campus, Lebanon. April 25, 2014
- Invited to present a seminar at the Chemistry department.
- Invited by Dar Al Shifa Hospital to present two lectures at the conference entitled “You lose weight we all win”. Kuwait, 1-2 October 2013.
- Invited by Arab Center for Nutrition and the Public Authority for Applied Education & Training (Kuwait) to present a lecture at the 4th Arab conference on Obesity and Physical activity. Kuwait, 18-20 February 2014.
- Invited by the University of Kuwait to present a lecture at the First Kuwait International Conference on Life Sciences. Towards Sustainable Society: Exploring Connections of Life Sciences to Society. April 6-8, 2014, Kuwait University, Kuwait.
- Invited by the Refugee Research and Policy in the Arab World Program at the Issam Fares Institute for Public Policy and International Affairs (IFI) at the American University of Beirut (AUB) to speak at their one-day policy forum on how to assess, address, and respond to the impact of the Syrian refugee crisis on Lebanon at the session entitled “Public Health and Nutrition.” May the 19th, 2014.

- Invited by UNICEF Lebanon to attend: MENARO Nutrition Data Management Clinic Workshop 15-17 July 2014. Amman. Jordan.

Mohamad Abiad

- Attended a Food Biotechnology Training Course for Developing Countries. This 6-day training course was organized by CAS-TWAS Centre of Excellence for Biotechnology (CoEBio) and sponsored by CAS- Chinese Academy of Sciences and TWAS- the World Academy of Sciences, for the advancement of science in developing countries. Beijing, China. November - December 2013.
- Attended a webinar on Analyzing Polymer Molecular Weight Distribution and Blend Morphology Using Rheology. Rheology is a powerful tool for analyzing polymer blends. The webinar was organized by TA Instruments (New Castle, DE). November 2013.
- Attended a webinar on Orthogonal Superposition Rheology organized by TA Instruments (New Castle, DE). September 2013.
- Attended a webinar on Rheological Fingerprinting of Complex Fluids and Soft Solids using LAOS (Large Amplitude Oscillatory Shear) organized by TA Instruments (New Castle, DE) September 2013.

Zeina Kassaify

- Gave a talk at the Eight Dubai International Food Safety Conference that took place between November 16 and 19, 2013. This Conference was organized by the Food Control Department of Dubai Municipality and supported by the International Association for Food Protection (IAFP) and partnering with Lebanese Association for Food Safety, UAE University, American University of Beirut, Life Technologies and Nestle Middle East to organize a special program for students. For the first time, more than twenty five undergraduate and five graduate students from the Food Science and Management and Food Technology programs joined this program.

Farah Naja

- Invited lecturer addressing "Food security in the MENA: Assessment a start". Hohenheim University, Germany. January, 2014.
- Invited lecturer: "Diet, dieticians, and patients' health". Emerging Leaders Conference, FHS and World Youth Alliance, AUB. December 2014.
- Invited lecturer : "Modifiable risk factors of breast cancer, the role of prevention". 4th International Breast Cancer and Nutrition Symposium. Saumur, France. October 2013.

- Invited lecturer: "Diet, dieticians and health, where is the missing link?" Conference title "Linking health to sustainable development in Lebanon". Beirut, December 2013.
- Joined the multidisciplinary team from the American University of Beirut for attending the 4th Annual International Breast Cancer and Nutrition (IBCN) symposium on 11, 12 and 13th of October 2013 in Saumur, France. The symposium brought together global public health actors, advocates, and researchers in the field of breast cancer prevention from various countries including Uruguay, China, Ghana, USA, Canada, Lebanon, Qatar and France. The symposium discussed prevention, detection and treatment of breast cancer focusing on the impact of environmental factors such as food, stress and exercise on the genome.

Ammar Olabi

- Took the Compusense at Hand (Sensory Evaluation Software) a 2-day short course, New Orleans, June 21-24, 2014.
- Attended and presented 3 abstracts at the Institute of Food Technologists Annual Meeting, New Orleans, June 21-24, 2014.
- Attended the IDEAL Research Funding and Grant Writing Workshop, February 20-21, 2014.
- Attended the Lebanese International Nutrition Conference 2014 "Clinical nutrition: translating evidence into practice" and co-moderated a session: "From gluten-free to symptom free: Trends in practice". Conference organized by the Dietary Department at AUBMC, April 5th, 2014.
- Attended the 4th Annual AUB Biomedical Research Day, organized by AUBMC and acted as a Jury Member, February 15, 2014.

Consultancies

- Nasreddine, Naja. Princess Noura University, Towards a healthy lifestyle: Nutrition, diet and food choices (AUB Regional External Program) (January -February 2014)
- Olabi conducted a Consultancy with Compusense for translating their Compusense V and Compusense at Hand software material to Arabic (fall 2013-2014). This activity was conducted for free and in return the NFSC department received a one-year free subscription to the Compusense at Hand software that is worth 8,400 CAD.

- Olabi gave a Sensory Evaluation 2-day short course. Course held in collaboration with Agthia and the Abu Dhabi Quality and Conformity Council, Abu Dhabi, May 26-27, 2014.

Media Appearances

Olabi Ammar

- TV interview on the activities of the Lebanese Action on Salt and Health (LASH), which is part of the Vascular Medicine Program at AUBMC, with respect to research activities and relevance to the community on the National Broadcasting Network TV station (NBN, 20 minutes, Host Ms. Lara Dabbous, March 13, 2014).
- Newspaper: Gave a short overview of his research activities as a member of the Lebanese Action on Salt and Health (LASH) for the Assafir Newspaper (Article by Ms. Malak Makki, March 12, 2014).
- Magazine: Gave a bit of background about his research to be included in the AUB MainGate magazine (Article by Ms. Susanne Lane, February 2014).

Nasreddine Lara

- TV interview on dietary exposure to Bisphenol A and associated health effects (LBC, 12 March 2014)
- Newspaper: Story by Daily Star on the launching of the Lebanese Food-Based Dietary Guidelines by nutritional experts (Daily Star, July 26, 2013)

Awards

- Dr. Farah Naja has won the CA and CC Rebeiz Award for Agricultural Research for her paper titled "Dietary patterns and odds of Type 2 diabetes in Beirut, Lebanon: a case-control study" published in Nutrition and Metabolism.

New Initiatives

- Dr. Abiad initiated the development of the rheology and packaging laboratory and initiated collaborations with colleagues from the Civil and Environmental Engineering department at FEA.
- Dr. Abiad has developed a new course on Food Rheology at the graduate level.
- Dr. Jomaa organized, in collaboration with colleagues from the department as well as MOPH and UNICEF, a training workshop on the "Optimal

implementation of the Food- Based Dietary Guidelines for Lebanese Adults". This workshop targeted primary health care providers in Lebanon.

- Dr. Nasreddine, in collaboration with colleagues from AUBMC, participated in the development and launching of the national campaign for salt reduction.

Future Plans

- Develop a graduate Food Safety Program.
- Develop a graduate Public Health Nutrition program.
- Pursue the certification of the Food Science program by IUFoST and accreditation by IFT.
- Sustain research and supervision of current projects.
- Foster faculty's involvement in multidisciplinary collaborative research projects and write new collaborative project proposals for funding.
- Increase the department's visibility and outreach activities by organizing conferences, trainings, workshops and short courses.
- Develop a nutrition education manual targeting pregnant women and under-five children.
- Foster research on nutrition and breast cancer
- Investigate water and beverage consumption patterns amongst Lebanese children and adolescents.

Strategic Challenges

The following challenges were encountered during the past year:

- Recruitment of a faculty member in Sports Nutrition: The position of Assistant Professor in Sports Nutrition was offered to Dr. Ahmad Al Khatib (effective fall 2014-2015), who has unfortunately declined due to personal reasons. The position will be re-advertised by the department.
- Recruitment of a Biostatistician: The position of Associate professor in Biostatistics was offered to Dr. Leila Barraj (effective fall 2014-2015), who has unfortunately declined due to personal reasons. The position will be re-advertised by the department.
- Scarcity of laboratory equipment

- Difficulty in conducting national or regional nutrition surveys due to the unstable political situation.
- Difficulty in implementing community projects and securing internship placements for dietetic interns as part of their community nutrition rotations due to the unstable security situation in Lebanon.

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