

**ANNUAL REPORT**  
**FACULTY OF AGRICULTURAL AND FOOD SCIENCES**  
**2005-2006**

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**INTRODUCTION**

Student enrollment figures for the academic year 2005/2006 were as follows: 632 students during the first semester of which 87 were graduate students and 608 students during the second semester of which 96 were graduate students. There were 290 students during summer 2006 of which 35 were graduate students. The summer session was interrupted because of the war in Lebanon and fortunately 282 students returned and completed the summer session. During 2005/2006, 124 students graduated: 12 with a B.Sc. in Agriculture; 8 with a B.Sc. in Landscape Design and Eco Management; 50 with a B.Sc. in Nutrition and Dietetics, 25 with a B.Sc. in Food science and management and 29 received their M.Sc. degrees in different majors.

Effective October 1, 2005, Coordinators of academic programs at FAFS were as follows: Dr. Mustafa Haidar, Coordinator of Undergraduate Studies, Agriculture Program; Dr. Omar Obeid, Coordinator of Undergraduate Studies, Nutrition Program; Ms. Julie Weltzien, A/Coordinator of Undergraduate Studies, Landscape Design and Eco Management during the first semester since Dr. Jala Makhzoumi was on periodic paid research leave; Dr. Raja Tannous, Coordinator of Undergraduate Studies, Food Science and Management Program; Dr. Moatasim Sidahmed, Coordinator of Graduate Studies; Dr. Rami Zurayk, Coordinator of the Ecosystem Management Program and Dr. Shady Hamadeh, Coordinator of ESDU.

Effective October 1, 2005, Dr. Salma Talhouk was promoted from Associate to full Professor in the Plant Sciences department. Ms. Tharwat Haddad was appointed as Student Records Officer at FAFS as of January 2006. Ms. Wafa Houry, Executive Officer, received the President's Service Excellence award on June 22, 2006, which was a well deserved recognition.

Dr. Nahla Hwalla took over from Dean Dagher the duties of the Dean of FAFS on September 11, 2006.

Effective October 1, 2005, the University Research Board (URB) provided funds for 12 faculty members with a total budget of \$ 93,725, while the Lebanese National Council for Scientific Research (LNCSR) provided funds for 4 faculty members including the Dean with a total budget of \$ 23,607.

This was a very successful year for the Faculty of Agricultural and Food Sciences. Besides considerable improvements on all three fronts of teaching, research and service, two of its faculty members won very distinguished regional awards. Dr. Moatasim Sidahmed received the 2005 regional award for Outstanding Agricultural Technology from the Consultative Group on International Agricultural Research (CGIAR) and Dr. Omar Obied received the Abdul-Hamid Shouman prize for Medical Sciences.

**SECTION A**  
**SUMMARY REPORT OF THE DEAN**

## **PERSONNEL**

### **Regular Appointments**

Dr. Ammar Olabi joined the Nutrition and Food Sciences Department as a full time Assistant Professor of Food Science effective October 1<sup>st</sup>, 2005.

### **Periodic Paid Research Leave**

The following faculty members were on periodic paid research leave during the first semester of 2005/2006: Dr. Jala Makhzoumi at the Royal Botanic Gardens, Kew, UK.; Dr. Mohamad Ragy Darwish at Earth University, Costa Rica; and Dr. Malek Batal at McGill University in Canada.

### **Promotion**

Effective October 1, 2005, Dr. Salma Talhouk was promoted from Associate to full Professor in the Plant Sciences department.

### **Department Chairpersons**

Dr. Shady Hamadeh; Animal Sciences (Oct. 1, 2004–September 30, 2007)

Dr. Isam Bashour; Land and Water Resources (Oct. 1, 2004–September 30, 2007)

Dr. Nahla Hwalla; Nutrition and Food Science (October 1, 2003–September 30, 2006)

Dr. Adib Saad; Plant Sciences (Oct. 1, 2004–September 30, 2007)

### **Academic Personnel**

Table 1 shows the number of faculty by rank. All those in the professorial ranks hold doctoral degrees; 21 from different U.S. Universities, 2 from Canadian Universities, 5 from European Universities, one from Australia and one from AUB. They represent seven different nationalities; Canada, Egypt, Germany, Lebanon, Syria, U.K. and the U.S. Numbers of research associates and research and graduate assistants are given in Table 2. It is to be noted that a large number of research assistants are on grant money with 54 Research Assistants between full time and part time, reflecting the increased research activities of the faculty and the increased funding for research from outside AUB.

**Table 1: NUMBER OF FACULTY BY RANK**

Professor Emeritus	2
Professors	16 (1 Part time)
Associate Professors	5
Assistant Professors	7
Lecturers	1 (Part time)
Instructors	12 (3 Full time) (9 Part time)

**Table 2: OTHER ACADEMIC PERSONNEL**

<b>Category</b>	<b>Funds</b>	<b>Number</b>
Research Associates	University	1 (Part time)
	Grant	4
Senior Research Assistants	University	2
	Grant	1
Research Assistants	University	8
Research Assistants	Grant	54 (32 Full time) (22 Part time)
Graduate Assistants	University	21

**Non-Academic Personnel**

There are 12 non academic employees in Beirut (Table 3) and 38 at the AREC. Four of these stationed at AREC are budgeted under Animal Science Department, 3 are budgeted under Plant Sciences Department and 4 are budgeted under Land & Water Resources Department. This is because the major part of their work is for assisting in teaching and research in those three Departments.

**Table 3: LIST OF NON-ACADEMIC STAFF**

	<b><u>NAME</u></b>	<b><u>TITLE</u></b>	<b><u>GRADE</u></b>
<b>I.</b>	<b><u>Dean's Office</u></b>		
	Haddad, Tharwat	Students Record Officer	Above grade 12
	Hamzeh, Haifa	Secretary	9
	Haydar, Imad	Junior Clerk	3
	Khoury, Wafa	Executive Officer	Above grade 12
	Koubayssi, Rabia	Assistant for Student Services	10
	Wali, Yamama	Clerk Stenographer	7
<b>II.</b>	<b><u>Animal Science</u></b>		
	Atikian, Nesta	Senior Technician	9
	Harb, Mohammad	Animal Attendant	3
	Safar, Shady	Livestock & Poultry production Supervisor	12
	Shukr, Talib Ali	Senior Poultry Attendant	4
	Zreik, Mohammad	Poultry Attendant	2
<b>III.</b>	<b><u>Plant Sciences</u></b>		
	Abu Samra, Elias		3
	El-Haddad, Nicloas	Farm Crop Production & Protection Supervisor	12
	Kayyal, Hatem	Agronomy Foreman	6
	Yazbek, Ali Abbas	Assistant Agronomy Foreman	3
<b>IV.</b>	<b><u>Nutrition and Food Sciences</u></b>		
	Derboghossian, Arsine	Associate Technician	6
	Ghannam, Tania	Clerk Stenographer	7
	Kadi, Ghassan	Associate Technician	6
	Tuma, Samir	Associate Technician	6

**Table 3: (Cont'd)**

	<u>NAME</u>	<u>TITLE</u>	<u>GRADE</u>
<b>V.</b>	<b><u>Land &amp; Water Resources</u></b>		
	Haidar, Naji	Assistant Mechanic	4
	Hajj-Hasan, Ahmad	Electrician	6
	Mouna, Hassan	Day &/or Night Attendant (Elect.& Boiler)	6
	Sindian, Ali	Head Mechanic	9
<b>VI.</b>	<b><u>AREC Administration</u></b>		
	Hajj-Hassan, Hussein K.	Sales Attendant/Store Keeper	7
	Yazbeck, Bilal	Driver, Purchaser	5
	Yazbeck, Mirna	Clerk Typist	6
<b>VII.</b>	<b><u>AREC Physical Plant</u></b>		
	Ghosn, Hisham	Gateman/Watchman	3
	Haidar, Nasser	Janitor	1
	Hajj-Hasan, Fuad	Boiler Operator/Pipe Fitter	6
	Hajj-Hasan, Husain Ali	Gateman/Watchman	3
	Hajj-Hasan, Khayrieh	Maid	1
	Hajj-Hasan, Mohammad	Gateman/Watchman	3
	Hajj-Hasan, Shehadeh	Janitor	1
	Kak, Mohamad	Gateman/Watchman	3
	Masri, Ali	Gateman/Watchman	3
	Mussawi, Kuzhayyah	Gateman/Watchman	3
	Sayyed-Ahmad, Abdullah	Gateman/Watchman	3
	Yaghi, Hazim	Physical Plant supervisor	12
	Zein, Bassam	Mason	5
<b>VIII.</b>	<b><u>AREC Production</u></b>		
	Abou-Eid, Abdallah	Field Worker	1
	El-Ali, Ibrahim	Animal Attendant	3
	Hajj Hassan, Ahmed K.	Animal Attendant	3
	Hajj Hasan, Ali	Field Worker	1
	Mousawi, Abbas	Machine Operator	3
	Takash, Nayef	Machine Operator	2
	Yazbeck, Hussein	Animal Attendant	3
<b>IX.</b>	<b><u>AREC Cafeteria</u></b>		
	Hamiyeh, Walid	Assistant Cook	5
	Kayyal, Ali	Food Service Worker	1
	Rumeh, Abdul Karim	Cook	7
	Shukr, Khalil	Food Service worker	1
<b>X.</b>	<b><u>AREC Library</u></b>		
	Sleiman, Samar	Librarian	6
<b>XI.</b>	<b><u>AREC AUH</u></b>		
	Sayyed-Ahmad, Mariam	Staff Nurse	9

## ACADEMIC AND STUDENT AFFAIRS

Student enrollment figures for the academic year 2005/2006 were as follows: 632 students during the first semester of which 87 were graduate students and 608 students during the second semester of which 96 were graduate students. There were 290 students during summer 2006 of which 35 were graduate students. The summer session was interrupted because of the war in Lebanon and fortunately 282 students returned and completed the summer session.

During 2005/2006, 124 students graduated: 12 with a B.Sc. in Agriculture; 8 with a B.Sc. in Landscape Design and Eco Management; 50 with a B.Sc. in Nutrition and Dietetics, 25 with a B.Sc. in Food science and management and 29 received their M.Sc. degrees in different majors.

**Table 4: STUDENT ENROLLMENT BY CLASS 2005-2006**

### UNDERGRADUATE AND GRADUATE STUDENT ENROLLMENT IN FAFS

<b>Undergraduates</b>	<b>Fall 2005-2006</b>	<b>Spring 2005-2006</b>	<b>Summer 2005-2006</b>
AGR I	89	77	31
AGR II	36	26	18
AGR III	21	15	9
AGR IV	9	13	4
Special	3	1	0
<b>Total AGR</b>	<b>158</b>	<b>132</b>	<b>62</b>
LDEM I	47	38	21
LDEM II	20	23	17
LDEM III	8	10	13
LDEM IV	7	6	2
Special	0	0	0
<b>Total LDEM</b>	<b>82</b>	<b>77</b>	<b>53</b>
ND I	53	40	12
ND II	47	51	20
ND III	42	54	22
Special	8	9	9
<b>Total ND</b>	<b>150</b>	<b>154</b>	<b>63</b>
FSMT I	101	81	29
FSMT II	23	33	26
FSMT III	31	35	22
<b>Total FSMT</b>	<b>155</b>	<b>149</b>	<b>77</b>
<b>Total UG</b>	<b>545</b>	<b>512</b>	<b>255</b>

<b>Graduates</b>	<b>Fall 2005-2006</b>	<b>Spring 2005-2006</b>	<b>Summer 2005-2006</b>
Agricultural Economics	8	8	1
Animal Science	6	5	3
Ecosystem Management	8	9	2
Food Technology	16	18	4
Irrigation	2	3	2
Mechanization	0	0	0
Nutrition	32	33	9
Plant Protection	7	9	7
Plant Science	3	4	2
Poultry Science	2	4	3
Soil	3	3	2
<b>Total Graduate</b>	<b>87</b>	<b>96</b>	<b>35</b>

### **RESEARCH GRANTS AND SERVICE CONTRACTS AND PUBLICATIONS**

Effective October 1, 2005, the University Research Board (URB) provided funds for 12 faculty members with a total budget of \$ 93,725, while the Lebanese National Council for Scientific Research (LNCSR) provided funds for 4 faculty members including the Dean with a total budget of \$ 23,607. A new contract for professional services with the Ministry of Environment-United Nations Development Programme (MOE\_UNDP) for the MedWet Coast Project was signed. The project duration was from October 12, 2005 until January 31, 2006 for a total budget of \$ 2,499 with Dr. Nadim Farjalla as Principal Investigator. The new phase III of the Sustainable Forage Project has been approved by Mercy Corps for an additional two years as of December 6, 2005, with a total budget of \$ 550,000. Dr. E. Barbour received 2 new grants; one on the “Evaluation of poultry and dairy teat dip disinfectants in the presence and absence of organic interfering substances” in the amount of \$ 3,500 from Oteri Company, a private Company in Lebanon; and the second one on the “Evaluation of the ingredients of epicane forte on avian influenza” in the amount of \$ 9,185 from Dr. Rath Research Institute, California. Dr. N. Hwalla received a new grant from the International Atomic Energy Agency (IAEA) for a research project on “Body Fat and its Relationship with Metabolic Syndrome Indicators in Overweight Pre-Adolescent Children and Adolescents in Lebanon” with a total budget of \$ 9,000. Dr. R. Zurayk received a new grant from RUAF Foundation in the amount of \$ 36,937 on “Cities Farming for the Future”. A new project on “Expanding Economic Opportunities in Lebanon Project-Action for Sustainable Agro Industry in Lebanon (ASAIL) Program” was signed with ACIDI/VOCA-USAID, in the amount of \$ 9,600 for the period June 12, 2006 and until July 12, 2007. Dr. Dagher is the Principal Investigator.

FAFS received \$ 90,000 from USAID ASHA for the purchase of equipment for the Animal Science and the Plant Sciences Departments.

### **Visiting URB Scholars**

Dr. Claude Fauquet, Director of the International Laboratory for Tropical Agricultural Biotechnology (ILTAB), Danforth Plant Science Center, St. Louis, MO, USA, was invited by the Plant Sciences Department as a URB Scholar, where he presented to FAFS Faculty and Students four lectures in Biotechnology and in Biodiversity of viruses, March 28-30, 2006.

Dr. Ewen Todd, Director of the National Food Safety and Toxicology Center, Michigan State University, was invited by the Nutrition and Food Science Department also as a URB Scholar. He gave three lectures on “World Wide Food Safety Issues”, “Disease Surveillance with illustrations from developed and developing countries” and “Risk Assessment with focus on Listeria”, May 15-19, 2006.

### **Accreditation Consultant**

Mrs. Nancy Hudson from the Nutrition Department, University of California-Davis, visited the Nutrition and Food Science Department, as a Visiting Consultant for one week from June 19 till 23, 2006 and evaluated the Nutrition Program and resources and suggested strategies to expedite the Department efforts for obtaining accreditation with the American Dietetic Association (ADA).

### **FACULTY PROFESSIONAL ACTIVITIES**

FAFS Faculty members continued attending international and regional scientific meetings during 2005/2006. A total of 11 faculty members presented papers and/or chaired sessions in those meetings. Drs. Sana Ghaddar, Musa Nimah and Ammar Olabi were granted long term faculty development leaves. Dr. Ghaddar conducted research at the University of British Columbia, Division of Nephrology, St. Paul’s Hospital, Vancouver, Canada from July 3 to August 31, 2006. Dr. Nimah visited Oregon State University during July-September 2006 where he worked on development of a text on the “Principles of Irrigation” and work on the development of an on-line irrigation advisory service. Dr. Olabi carried research at the Food Science and Nutrition Department at California Polytechnic State University, from July 1 to August 31, 2006. A workshop on “Biodiversity as Food” was held at FAFS in collaboration with IBSAR, ESDU and the Nutrition and Food Science Department. Dr. Malek Batal, Principal Investigator of the “Wild Edible Plants” project organized this workshop which was sponsored by the International Development Research Center (IDRC). Over fifty participants from different NGOs, ministries and agencies attended the three days workshop in February 2006.

FAFS, IFAD and ESDU held jointly an advanced course on “Investigating Financial Appraisal Projects for Development Projects” on March 6-10, 2006. The course was open to mid level and senior management of governmental institutions, international agencies, development agencies and NGO’s and explored in depth the process of appraising the financial feasibility of development projects. The course was offered by the National Training Unit of NEMTA in Lebanon which was composed of Dr. Ragy Darwish, Dr. Sawsan Hajjar, Mr. Mohamad Jamil, Mr. Ziad Moussa and Dr. Philip Zgheib.

Dr. Moatasim Sidahmed received the 2005 Regional Award for Outstanding Agricultural Technology, from the Consultative Group on International Agricultural Research (CGIAR) at its annual meeting, held in December 2005 in Marrakech, Morocco. Dr. Sidahmed won the award for the innovative design of a cutter and feeder mechanism that he developed with his former graduate student, Mr. Nizar Jaber. Dr. O. Obeid received the Abdul Hamid Shouman prize for medical sciences.

During the war on Lebanon, the World Health Organization and UNICEF have solicited the NFSC department services to plan their strategy for food and nutrition intervention. For this purpose, Dr. N. Hwalla nominated Dr. O. Obeid to serve as the nutrition officer and participate in the national meetings. She also contacted the department network of graduates through the nutrition society and mobilized them to help in completing a situation analysis of the nutritional status of the displaced adults and children. In addition, Drs. Hwalla, Talhouk

and Zurayk worked on a project to promote fruits and vegetables initiative to complement food aid fulfill 1/3 of the micronutrient requirements of the displaced population. The initiative consists of distributing fruits and vegetables baskets to displaced families through Healthy Basket under the University Relief Committee efforts.

Research productivity continued to increase with a total of 58 papers published in scientific peer reviewed journals in 2005/2006 and numerous others in proceedings, books and chapters in books.

### ALUMNI

Table 5 shows the number of graduates from FAFS since 1956 which includes the TVT program that was started in 1954 funded by USAID and discontinued in 1971. FAFS has graduated a total of 4160 students from its regular instructional programs: 2460 with the B.S. degree in the 4 undergraduate majors (Agriculture, Landscape Design & Eco Management, Nutrition and Dietetics, and Food Sciences and Management) and 1275 students with the M.S. degree in 11 different majors. The table also shows that our graduates came from 56 countries and that most of these are from the Middle East, South Asia and North Africa.

### FAFS GRADUATES BY COUNTRIES 1956-2006\*

1956-2006*	B.S.	M.S.	T.V.T.**	Total
Aden	5	1	0	6
Afghanistan	16	38	60	114
Algerian	1	0	0	1
American	19	8	0	27
Argentina	0	1	0	1
Australian	4	2	0	6
Bahrain	6	0	0	6
Bangladesh	1	44	0	45
Bolivian	3	3	0	6
Brazilian	4	2	0	6
British	9	3	0	12
Canadian	7	0	0	7
Chinese	0	1	0	1
Costa Rica	1	1	0	2
Cypriot	12	17	22	51
Danish	1	0	0	1
Egyptian	5	3	0	8
Ethiopian	1	1	92	94
French	8	2	0	10
German	1	0	0	1
Ghana	1	0	0	1
Greek	7	6	0	13
Indian	1	3	2	6
Indonesian	1	0	0	1
Iranian	60	46	19	125
Iraqi	12	12	0	24
Jordanian	109	102	20	231
Kenyan	1	0	0	1
Kuwaiti	5	1	0	6
Lebanese	1930	619	4	2553

<b>1956-2006*</b>	<b>B.S.</b>	<b>M.S.</b>	<b>T.V.T.**</b>	<b>Total</b>
Lesotho	1	0	0	1
Libyan	2	0	17	19
Maldives	2	0	0	2
Mexican	1	0	0	1
Moroccan	12	4	0	16
Nepalese	6	9	44	59
Nigerian	3	0	0	3
Omani	1	0	0	1
Pakistani***	15	229	89	333
Palestinian	48	26	0	74
Qatari	1	0	0	1
Romanian	1	0	0	1
Saudi Arabia	8	0	4	12
Sierra Leone	2	0	0	2
Somalia	0	2	24	26
Sirilankan	0	1	0	1
Sudanese	18	25	23	66
Sweden	0	1	0	1
Swiss	1	0	0	1
Syrian	63	37	0	100
Tanzanian	0	1	0	1
Togo	0	1	0	1
Tunisian	2	0	1	3
Turkish	8	10	0	18
Venezuelan	6	3	0	9
Yemen	7	2	4	13
Yugoslavian	0	1	0	1
Unknown	21	7	0	28
<b>Total</b>	<b>2460</b>	<b>1275</b>	<b>425</b>	<b>4160</b>

\* As of June 2006

\*\* The Technical Vocational Training (TVT) Program was terminated in August, 1971.

\*\*\* Includes Bangladesh up to 1973.

**SECTION B**

**REPORTS BY DEPARTMENTS AND PROGRAMS**

## DEPARTMENT OF ANIMAL SCIENCES

2005-2006

**Shady K. Hamadeh, Chairperson**

### **SUMMARY OF THE PROGRAM**

The Department members managed to offer 17 undergraduate and 9 graduate courses with seminars and tutorials in spite of the involvement of three members in administrative activities (Dean and Director of AREC and Chairman).

In addition, Animal Science Faculty members were actively involved in research and services. Thirteen research projects funded by university, national and international sources were carried out with an output of 14 research papers either published or accepted. The thesis work of 11 graduate students was underway, 3 of them graduated by the end of the Spring semester. Furthermore, Department members participated in various workshops and conferences in Lebanon and abroad. The Veterinary Science Program proposed by the Department was approved by the Faculty and is being processed by the Senate.

### **PERSONNEL**

#### **Faculty and Staff**

##### ***Academic***

- Elie Barbour, Ph.D.; Professor of Veterinary Microbiology.
- Nuhad Daghir, Ph.D.; Professor of Poultry Science; Dean of FAFS.
- Mouhamad Faraan, Ph.D.; Professor of Poultry Science; Director of AREC.
- Shadi Hamadeh, Ph.D.; Professor of Animal Physiology. Chairman
- Fawak Sleiman, Ph.D.; Professor of Dairy Science.
- Michel Uwayjan; Research Associate.
- Lina Jaber; Departmental Research Assistant
- Maria-Pia Nehmeh, Nadim Rawda, Hussam Shaib and Amin Ghanem; Research Assistants on grants.
- Akram Al Kadi, Samar Dankar, Rindala El-hakim, Danyelle Gerges, Elie Ghadban, Nadine Hanna, Ramzi Issa, Youssef Obeid, Edward Rayya, Rana Sawaya; Graduate Assistants.

##### ***Non-Academic***

- Nesta Saghirian; Senior Technician.
- Taleb Shukr; Senior Poultry Attendant.
- Mohammad Harb; Animal Attendant
- Mohammad Zreik; Poultry Attendant
- Shadi Safar; Livestock and Poultry Production Supervisor

## TEACHING ACTIVITIES

	<u>No. of students</u>	<u>Core courses</u>	<u>Electives</u>	<u>Others</u>
<b><u>Fall 05-06</u></b>				
Undergraduate	158	4	2	1 (ES course)
Graduate	8	4	-	-
<b><u>Spring 06</u></b>				
Undergraduate	132	5 (including seminar)	2	1 tutorial
Graduate	9	6 (including seminar)	-	-
<b><u>Summer 06</u></b>				
Undergraduate	62	2	2	
Graduate	6	-	-	-

### *No. of Graduate students enrolled and graduated*

	<u>No. of students</u>
<b><u>Fall</u></b>	
Enrolled	6 ANSC, 2 Poultry
Graduated	
<b><u>Spring</u></b>	
Enrolled	5 ANSC; 4 Poultry
Graduated	2 (ANSC), 1 (Poultry)
<b><u>Summer 04</u></b>	
Enrolled	3 ANSC; 3 Poultry
Graduated	-

## SERVICES

### *Elie Barbour*

- Delegated by the Ministry of Agriculture to Monitor and analyze Avian Samples for H5N1-Bird Flu
- Accomplished a total of 14 Interviews with the major media institute of Lebanon to inform the Lebanese population of the present situation of Avian Flu in Lebanon, and the activity that the AUB is accomplishing.
- Serving on the Advisory Committee.
- Modification of Veterinary Science program
- Executive committee of IBSAR (member)
- Research and Patent Committee of IBSAR (Member)
- Serving Poultry sector in Poultry Diseases control.
- Kuwait Academia and Poultry Sector
- Jordanian Academia and Poultry Sector
- Saudi Arabia Academia and Poultry SEctor
- OIE Advisory Board (World Animal Health Organization)
- Veterinaria Italiana advisory Board

### ***Mohamed Farran***

- AREC Director.
- FAFS Strategic Planning Committee.
- FAFS Deanship Search Committee.
- Acting Chairperson during Summer 2006, ANSC Department
- Advisor to the Minister of Agriculture, Republic of Lebanon, July 19, 2005 to date.
- Finalized a National Contingency plan to prevent and control Avian Flu in Lebanon.
- National Project Director, TCP/LEB/2905, FAO August 2003 to December 31, 2006.
- Member of Board of Administration, Lebanese National Council for Scientific Research, October 14, 2003 to date.
- Consultant with MADA and ASAIL
- Attended workshops and seminars organized by national and international companies.
- Several interviews with newspapers, magazines, and televisions on Avian Influenza.

### ***Shadi Hamadeh***

- Advisory Committee
- Administrative Committee
- Chairperson
- Acting Dean- Different dates.
- Academic and Curriculum Committee
- FAFS Deanship search committee.
- Extension work and training farmers on small ruminant production in Northern Bekaa
- Coordinator of the Environment and Sustainable Development Unit (ESDU)
- Coordinator of the National Training Unit under the NEMTA project supported by IFAD.
- Moderator at the Regional Training Workshop on Urban Agriculture, AUB, September 3-26, 2005.
- Member of the Board of directors of the National Accreditation Council of Lebanon.

### ***Fawwak Sleiman***

- Disciplinary Committee
- University Council (does not meet)
- Ad-Hoc Major Equipment Committee, FAFS (end Dec.2005)
- Alumni Class Reunion Committee, FAFS
- Maintained extension services to Dairy farmers supported by
- the Forage Production Program.
- Consultant- FAFS Forage Production Project.

## RESEARCH

### *Other than thesis*

	<b>Project title</b>	<b>Funding Agency</b>
<b><i>Elie Barbour</i></b>	1. Evaluation of poultry and dairy teat dip disinfectants in the presence and absence of organic interfering substances	Oteri Company, Lebanon
	2. Epican Forte against avian influenza	Dr. Rath Research Institute, Netherland
	3. Evaluation of Florfenicol against poultry salmonellosis	Montajat Vetrinary Pharmaceuticals C. Ltd., Saudi Arabia.
	4. Cell mediated immune responses in water-deprived Awassi ewes	LNCSR, Lebanon
	5. Surveillance and control of Avian Influenza	URB, AUB, Lebanon
<b><i>Mohamed Farran</i></b>	1. The effect of supplementing laying hen diets with local crop oils on performance, yolk lipid and fatty acid profile, and quality of fresh and stored eggs.	LNCSR
	2. Effect of Dietary Phytase on the Performance of Broiler Chicks	Obegi Chemicals Sal. (BASF)
	3. Utilization of Locally Produced Barley and Oil Seed Meals and Feed Additives in Poultry Diets	LNCSR
	4. Nutritional values of dehulled safflower meal for poultry	LNCSR
<b><i>Shadi Hamadeh</i></b>	1. The Wild edible plants project	IDRC
	2. Holistic Landscape Approach to Biodiversity use in Lebanon	IBSAR
	3. Some physiological, biochemical and hormonal changes in water-stressed dry Awassi ewes supplemented with vitamin C.	URB
	4. Fat mobilization and some hormonal changes in dry Awassi ewes in response to water stress and vitamin C supplementation	LNCSR

### *Thesis supervision*

	<b>(ANSC, POSC)</b>	<b>Thesis Title</b>
<b><i>Elie Barbour</i></b>		
1.Samar Dankar	POSC	“Evaluation of a vaccine and a newly developed essential oil against H9N2-avian influenza”, Completed
2.Danielle Gerges	POSC	“Anti- <i>Candida albicans</i> effect of indigenous herbs in Lebanon. In progress
3.Rindalla Hakim	POSC	“Natural and synthetic chemicals against etiologic agents of dairy and poultry diseases”, In Progress.
4.Edward Rayya	POSC	Escape mutants of H9N2-avian influenza viruses in poultry of Lebanon and their control”, In Progress.
5.Ranna El Hajj	Ecosys. Mngt	Microbiological studies in Oysters of Lebanon

**Mohamed Farran**

- |               |      |  |
|---------------|------|--|
| 1. Akram Kadi | POSC | Effect of chelated or organic mineral compounds on performance and egg quality of laying hens. |
|---------------|------|--|

**Shadi Hamadeh**

- |                 |               |   |
|-----------------|---------------|---|
| 1. Nadine Hanna | ANSC          | Physiological changes in water-stressed Awassi ewes supplemented with Vitamin C |
| 2. Rana Sawaya  | Ecosys. Mngt. | Livestock systems in highly urbanized areas: the case study of Mount Lebanon.   |

**Fawwak Sleiman**

- |                  |      |  |
|------------------|------|--|
| 1. Omar Rifai    | ANSC | Ultra Sound as a means for pregnancy detection in cattle (Title, not final).                                     |
| 2. Youssef Obeid | ANSC | Utilization of potato chips in diets of small ruminants (Title, not final).                                      |
| 3. Ramzi Issa    | ANSC | Apparent digestibility and performance of goat kids fed olive pulp ensiled with different feedstuffs (Completed) |
- 

**PUBLICATIONS*****Full Length Articles:***

- Abdelnoor, A.M., Rahal, E., Zeidan, J.A., and Sleiman, F.T. 2006. Preparation of anti-*Candida albicans* antibodies in an egg-laying hen and their protective efficacy in mice. *Journal of Applied Research*. 6: 62-68.
- Barbour G., M. T. Farran, A. Darwish, N. Usayran, H. Mashlab, M. Hrubby, M. Uwayjan, V. Ashkarian, 2006. Nutritional evaluation of three local barley varieties and the impact of dietary enzyme on their apparent metabolizable energy. *The Journal of Poultry Science*, 43:228-234.
- Barbour, E.K., Abou Chacra, N., Muhtaseb, H., Jaber, L., Nehme, P., Shaib, H., Sadek, R., and Usayran, N. Performance, bacterial shedding, and microbial drug resistance in two tortoise breeds. *Veterinary Record*, In Press
- Barbour, E.K., Sagherian, V.K., Sagherian, N.K., Dankar, S.K., Jaber, L.S., and Farran, M.T. 2006. Avian Influenza outbreak in poultry in the Lebanon and transmission to neighboring farmers and swine, *Veterinaria Italiana*, 42(2): 77-85.
- Barbour, E.K., El-Hakim, R. G., Kaadi, M.S., Shaib, H., Jirjis, D.D., Nehme, P., Harakeh, S. Pathology of the respiratory system in essential oil-treated broilers following a challenge with mucosal bacterium and/or a hemagglutinating virus. *The Journal of the American Holistic Veterinary Medicine Association*, In Press.
- Barbour, G. W., M. T. Farran, M. G. Uwayjan, V. M. Ashkarian, A. H. Darwish, and N. N. Usayran, 2006. Effect of soybean oil supplementation to low ME diets on production parameters of broiler chickens. *J Appl. Poultry Res.* 15:190-197.
- Farran, M. T, W. S. Halaby, G. W. Barbour, M. G. Uwayjan, F. T. Sleiman, V. M. Ashkarian, 2005. Effect of feeding dietary ervil (*Vicia ervilia*) seeds soaked in water or acetic acid on performance and internal organ size of broilers and production and egg quality of hens. *Poultry Sci.* 84:1723-1728.
- Ghanem A.M., Jaber L.S., Abi Said, M., Barbour E.K. and Hamadeh, S.K. Physiological and chemical responses in water-deprived Awassi ewes treated with Vitamin C. Under review.
- Hamadeh S.K., Ghanem A., Jaber L.S., Abi Said M. and Barbour E.K. Response to seven days water restriction in dry Awassi ewes. Under review.
- Hamadeh, S. K., N. Rawda, L. S. Jaber, A. Habre, M. Abi Said and E. K. Barbour. 2005.

- Physiological responses to water restriction in dry and lactating Awassi ewes. *Livestock Production Science*, 101:101-109.
- Nehme, P.A., Barbour, E. K., Sagherian, V.K., Hamadeh, S.K., and Zurayk, R. 2005. Baseline data on enumerated tracheal bacterial flora and drug susceptibility in chicken reared under different systems. *International Journal of Applied Research in Veterinary Medicine*, 3(4):372-377.
- Omeira, N., Barbour, E.K., Nehme, P.A., Hamadeh, S.K., Zurayk, R., Bashur, I. Microbiological and chemical properties of litter from different chicken types and production systems. *Science of the Total Environment*, 367(1): 156-162
- Talhok, R.S., Karam, C., Fostok, S., El-Jouni, W., and Barbour, E.K. Anti-inflammatory bioactivities in plant extracts. *Journal of Medicinal Food*, In Press.
- Tayeb, I.T., Nehme, P.A., Jaber, L.S. and Barbour, E.K. Competitive exclusion against *Salmonella* Enteritidis in layer chickens by yoghurt microbiota: Impact on egg production, protection, and yolk antibody and cholesterol levels. *Journal of Applied Microbiology*, In Press.

#### ***Abstracts:***

- Farran, M.T., A.N. Kadi, G. W. Barbour, 2006 Performance and egg quality of laying hens fed Egg Shell 49 or Replamin. To be presented at PSA 2006 Annual Meeting, July 16-19,2006, Edmonton, Canada.
- F.T.Sleiman, R.E. Issa, S.H.Ibrahim, M.G. Uwayjan, S.K.Hamadeh, I. Toufeili and M.T.Farran. 2006. Apparent digestibility, voluntary feed intake and performance of goat kids fed olive cake ensiled with different feedstuffs. *Journal of Dairy Science*. 89 (Supplement 1). In Press.

#### ***Chapters in Books:***

- Farran, M. T., C. Kayouli, A. Soukehal, R. Metzger, M. L. Hayek, I. Nahhal, Z. Jaber, N. Fahd, and V. M. Ashkarian, 2005. Improvement in general traditional livestock management practices in South Lebanon through different interventions. In: *Comparative Advantages for Typical Animal Products from Mediterranean Area*. Published by Elsevier, Wageningen Academic Publishers. 205-212.
- Farran, M. T., C. Kayouli, A. Soukehal, R. Metzger, N. Fahd, , I. Nahhal, Z. Jaber, M. L. Hayek, 2005. *Practical guide in livestock production and milk processing*. Published by The Ministry of Agriculture, Republic of Lebanon and Food and Agriculture Organization of the United Nations. pp. 1-127.

#### ***Masters' Theses:***

- Nadine Hanna. Physiological changes in water-stressed Awassi ewes supplemented with Vitamin C. 2006.
- Ramzi Issa. Apparent digestibility and performance of goat kids fed olive pulp ensiled with different feedstuffs. 2006.
- Samar Dankar. Evaluation of a vaccine and a newly developed essential oil against H9N2-avian influenza. 2006.

## Meetings, conferences and workshops attended

	<b>Activity</b>	<b>Date</b>
<i>Elie Barbour</i>	1. Seven days lecturing in Kuwait to Ministry of Agr., Ministry of Health, Ministry of Interior, Universities on “Research and Preparedness Plans to Combat Avian Influenza in Kuwait”.	March 4-10, 2006
	2. Lecturing at the Arab University on:” Role of AUB as an academia in Research for Control of Avian Flu”.	April 7, 2006
	3. LAU Invited Speaker on “Birds Flu: Is everything under control?”	April 9, 2006
	4. MidTown Lion’s Club Invited Speaker on ”Research and Preparedness plan for combating Avian Flu in Lebanon”	April 5, 2006
	5. Lecturing in Saudi Arabia to Major Technical Staff of the Poultry Sector, Qaseem, Saudi Arabia	September 16-17, 2006
<i>Mohamed Farran</i>	1. Final workshop for FAO Project (TCP/LEB/2905) held in Nabatieh.	November 19, 2005
	2. Finalized a National Contingency plan to prevent and control Avian Flu in Lebanon.	March 2006
	3. Several public lectures on avian influenza.	Different Dates
	4. Attended the “International Scientific Conference on Avian Influenza and Wild Birds”, FAO, Rome	May 30-31, 2006
	5. In collaboration with FAO and the Ministry of Agriculture, I organised, and presented in, a National workshop entitled “Registration of Poultry Farms in Lebanon as an Effective Approach to Surveillance and Monitoring Programs for HPAI Viruses”, Rotana-Hazmieh	June 24, 2006
	6. Attended a meeting with FAO experts on war damage assessment in Lebanon, Amman, Jordan	August 24, 2006
	7. Attended workshops and seminars organized by national and international companies.	April 18, 2006 (OIE – FAO)
	8. Organized Workshop at AREC on Training Veterinarians on Prevention and Early Detection of High Pathogenic Avian Influenza.	May 2, 2006 (FAO – MOA)
<i>Shadi Hamadeh</i>	1. Training workshops for small ruminant production farmers	Different dates
	2. Invited speaker at the 12th AUB AANA National Convention, Houston, Texas.	November 18-20, 2005
	3. Visit to CORDIS, Brussels.	November 21-22, 2005
<i>Fawwak Sleiman</i>	1. Workshops for Dairy farmers in Baalbek-Makhzoumi Foundation.	April, 22, 23 and 29.
	2. Participated in workshops on Forage Production, sponsored by US-AID/FAFS	Different dates

## **FUTURE DEVELOPMENTS**

The Department is pursuing the work for the initiation of a BS in Veterinary Science program. In this context, members of the Department established contacts with Szent Estvan University (SEU) in Hungary, for future cooperation. Work on the proposed curriculum and needed facilities is underway in order to make the new 3-year program fit with the requirements of the first 3 years of the DVM program in SEU; thus giving the graduates the chance to pursue a DVM degree through only 2 additional years in SEU. The new program will hopefully be finalized and approved in the coming year.

The Department is planning to develop an integrated research strategy on zoonotic diseases.

## **DEPARTMENT OF LAND AND WATER RESOURCES**

**2005-2006**

**Isam I. Bashour, Chairperson**

### **SUMMARY OF THE PROGRAM**

The members of the faculty at the LWRS belong to different academic backgrounds, agricultural economics, irrigation and water resources management, hydrology, soil science and farm mechanization. They pursue a variety of research activities covering the wide range of their academic backgrounds and interests. The LWRS Department performed well during last year in all aspects of teaching research and community service.

The variation in the scientific fields and the applied research activities strengthens the department as a support unit to other departments at FAFS, university extension & development programs and to the farming community in Lebanon at large.

Student enrollment in the undergraduate and graduate courses was close to last year's number. Twenty five courses were offered, fifteen undergraduate and ten graduate. A total of seven students earned a Master of Science degree, one in irrigation, three in ecosystem management, and three in economics. Published research included eleven refereed articles and eleven conference papers. Also many technical reports were written by the LWRS faculty members and several seminars to farmers were offered at AREC/Bekaa, South, Akkar, North and other regions of Lebanon.

### **PERSONNEL**

#### **Full Time Faculty**

- Bashour, Isam, Ph.D., Professor of Soil Science
- Darwish, Ragy, Ph.D., Associate Professor of Agriculture Economics
- Farajalla, Nadim, Ph.D., Assistant Professor of Environmental Hydrology & Water Resources
- Nimah, Musa, Ph.D., Professor of Irrigation and Water Resources Management
- Sidahmed, Moatasim, Ph.D., Professor of Mechanization
- Zurayk, Rami, Ph.D., Professor of Soil Science

#### **Part Time Lecturer**

- Kharrat, Antoine, Ph.D.
- Shibl, Youssef, PhD.
- Al-Khalil, Youssef, PhD

#### **Departmental Research Assistant**

- Yanni, Sandra, M.Sc.

#### **Part Time Instructor**

- Moukarzel, Carla, M.Sc.

## PUBLICATIONS

### Publications in Refereed Journals & Proceedings

- Lteif, A., **I. Bashour**, **N. Nimah** and **R. Darwish**. 2005. Selenium Levels in Beqaa Valley in Lebanon. Proceedings of the 15<sup>th</sup> International Plant Nutrition Colloquium, Sep. 13 – 20, 2005, Beijing, China.
- Bashour I.** 2006. Investigating New Fertilizer Management Programs. Proceeding of MEED's Middle East Fertilizers Conference, Dubai 5 – 6 March (CD copy).
- Darwish M. R.**, C. C. Moukarzel, S. Hamadeh and M. Haidar. 2006. Agri-Tourism: A Potential Sustainable Alternative to Enhance Rural Income in Lebanon. Journal of Tourism Management. Elsevier. (submitted)
- Darwish M.R.**, M. Sharara, **M. Sidahmed** and M. Haidar. 2006. The Impact of a Storage Facility on Optimality Conditions of Wastewater Reuse in Land Application: A Case Study in Lebanon. Journal of Resources, Conservation and Recycling, Elsevier, Netherlands. (Submitted)
- Farajalla N.** and J. El-Khoury, 2006. Water and Sediment Quality Assessment of the Aammiq Wetlands – A Ramsar Site in Lebanon, Wetlands Journal (submitted June 2006).
- Nimah, M.N.** and N. Muhar. 2005. (Invited paper). Irrigation Schemes between Tradition and Technology. Proceedings of the 12<sup>th</sup> Scientific Meeting of Saudi Arabia. Agricultural Scientific Association, September 28, King Saud University, Riyadh Saudi Arabia.
- Moukarzel, S.N. and **M.N. Nimah**. 2005. Virtual Water and Water Productivity as a Strategic Plan for Water Governance in the ESCWA region. Seminar on Water Governance: Role of stakeholders and civil society institutions in water management. 14/11-15/11/2005, ESCWA, Lebanon. E/ESCWA/SDPD/2005/WG.5/22
- Haddad, J. N., **M.N. Nimah**, and **N. Farajalla**. 2006. Modeling Annual Rainfall: A Robust Maximum Likelihood Approach. *Envirometrics Journal*. (accepted for publication)
- Nimah, M.N.** 2006. Cucumber Yield under Regular Deficit irrigation and Mulching Treatments. *ACTA Horticulturae*. 667. (accepted for publication).
- Nimah M.N.**, S.N. Moukarzel, **M. R. Darwish**, **N. Farajalla**, and **I. Bashour**. 2006. Water Productivity a basic tool for sustainable Irrigation. Transaction of Wessex Institute of Technology: International Conference on Sustainable Irrigation. (pp127-136).
- Yau S.K., **M. N. Nimah** and I. Toufeili. 2006. Quality And Yield Of Red Stigmas Of Different Saffron Strains At Contrasting Mediterranean Sites. *Experimental Agriculture*. Volume 42.
- Sidahmed, M. M.**, M. D. Taher and R. B. Brown. 2005. A virtual nozzle for simulation of spray generation and droplet transport. *Biosystems Engineering* 92(3): 295-307
- Haidar, M., **M. M. Sidahmed**, **R. Darwish**, and A. Lafta. 2005. Selective control of *Orobanche ramosa* in potato with rimsulfuron and sub-lethal doses of glyphosate. *Journal of Crop Protection* 24(8):743-747
- Haidar, M. and **M. M. Sidahmed**. 2006. Elemental sulphar and chicken manure for the control of branched broomrape (*Orobanche ramosa*). *Journal of Crop Protection* 25:47-51
- Zurayk, R.**, **Kanj, B.**, Talhouk, S. and Baalbaki. 2005. R. Salinity and Phosphorus Nutrition Effects on Vegetative Growth of Differentially Drought Tolerant Wheat. *Crop Science*. (In Review).
- Baalbaki, R., N. Hajj-Hassan, and **R. Zurayk**. 2005. Variation in quantitative attributes of wild *Aegilops* species under water stress. *Crop Sciences*. (In Review).
- Talhouk, S.N., Van Breugel, P., **Zurayk, R.**, Al-Khatib, A., Estephan, J., Ghalayini, A., Debian, N., and Lychaa, D. 2005. Status and Prospects for the Conservation of Remnant Semi-natural Carob *Ceratonia siliqua* L. Populations in Lebanon. *Forest ecology and Management*. 206, 49-59.

- Talhok S. N., Dardas, M., Dagher, M., Clubbe, C., Jury, S., **Zurayk, R.** and Maunder, M. 2005. Patterns of Floristic Diversity in Semi Natural Coastal Vegetation of Lebanon and Implications for Conservation. *Biodiversity and Conservation*. Vol.14, 903-915.
- Baalbaki, R., N. Hajj-Hassan, and **R. Zurayk**. 2006. Aegilops species from Semiarid Areas of Lebanon: Variation in Quantitative Attributes under Water Stress. *Crop Science Society of America*. Vo. 46, 799-806.
- Omeira, N., Barbour, E.K., Nehme, P.A., Hamadeh, S.K., **Zurayk, R.**, and **Bashour, I.** 2006. Microbiological and chemical properties of litter from different chicken types and production systems. *Science of the Total Environment* (367), 156 – 162.

### **Abstracts and Papers Presented in Scientific Meetings**

- Bashour I., M.N. Nimah** and S. Yanni. 2006. Water Availability and Fertilizer Use in the Middle East. AFA 12th International Annual Fertilizer Conference. Cairo – Egypt. February 6 - 8, 2006.
- Farajalla N.** 2006. A Spatial Decision Support System for Siting Wastewater Treatment Facilities – Case Study in Lebanon. AWRA Specialty Conference on GIS in Water Resources, May 8 – 10, 2006, Houston, Texas, USA.
- Farajalla N.,** Yau S.K., and M. Mhanna. 2006 Rainfall and temperature effects on rainfed barley yield under different rotations in Central Beka'a, Lebanon. Proceedings of the IX European Society for Agronomy Congress September 4 – 7 2006, Warsaw, Poland.
- I.P. Saoud and **N. Farajalla**. 2006 Dual use of water in aquaculture: Design, management and costs of building and operating a system. ASA-IM 11<sup>th</sup> Annual Regional Conference, September 9-10, 2006, Cairo, Egypt.
- Yau S.K. and **M. N. Nimah**. 2005. Potential of Safflower to Mitigate Nitrate Leaching Under Irrigation. Proceedings of the International Annual Meeting of the American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America, Salt Lake City, USA.
- Nimah M.N.** and S. Yanni. 2005. Deep Root Watering for Landscape and Fruit Trees. Saudi Arabia Agricultural Fair Conference, Riyadh, Saudi Arabia, September 24.
- M.N. Nimah**. 2006. Water Quality Monitoring. FAO/NDU Workshop May 10-11, 2006, Beirut, Lebanon.

### **Publications in Local Journals**

- Nimah M.N.** 2005. Water and Wastewater Management Issues in Urban Areas. Proceedings of the Symposium on Regional Municipal Workshop on Environmental Management. 14-18 November. UNEP/ESCWA/ Environment & Development Magazine.
- Nimah, M.N.** 2006. Waste water treatment in Kura region and its reuse: Suggestions & Alternatives. Waster Water Management in Kura: Problems and solution Workshop, NDU / Lebanese Social Society.

### **Books and Chapters in Books**

- Bashour, I.** 2005. Soil Chemistry and Soil Fertility. In *Encyclopedia of Life Support Systems (EOLSS)*, UNESCO, EOLSS Publishers, Oxford, UK, [<http://www.eolss.net>]
- Bashour, I.** 2005. Fertilization of Fruit Trees. In *The Near East Fertilizer Use Manual*, FAO, Rome, Italy. (Accepted for Publication)
- Bashour, I.** 2005. Fertilization of Cereal Crops. In *The Near East Fertilizer Use Manual*, FAO, Rome, Italy. (Accepted for publication).
- Bashour, I.** 2005. Fertilization of Forage Crops. In *The Near East Fertilizer Manual*, FAO, Rome, Italy. (Accepted for publication).

- Nimah, M.N.** 2006. Irrigation Water requirements and Irrigation Scheduling. In Training workshop on the Management of Irrigation and Fertigation, sponsored by BADEA (Bank for Economic development in Africa) and ACSAD (Arab Center for the Studies of Arid Zones and Dry Areas). Mar 6 – April 2, 2006, Damascus, Syria.
- Hamadeh, S., Haidar, M. and **Zurayk, R.** 2006. Research for Development in the Dry Arab Region. International Development Research Centre and Southbound Publishers, Penang. 124pp.
- Zurayk, R.**, Haidar, M and Hamadeh, S. 2005. The Local Users Network: A Participatory Communication Forum. In: Mear, A. (eds.). Food and Water for Millions: Participatory Communication for Land and Water Management. Montreal, Canada. pp: 17-25.

### **Reports & Extension Papers**

- Bashour I.** Fertilization of Potato in Akkar region, Lebanon. In association with SRI / INMA. May 2006.
- Bashour I.** Fertilization of Banana in Tyr, Lebanon. In association with SRI International / INMA. May 2006.
- Bashour I.** Fertilization of Forage corn in Akkar region, Lebanon. In cooperation with Renee Mouad Foundation / April 2006.
- Bashour I.** Fertilization of Vegetables in Hermel region, Lebanon. In association with YMCA./ May 2006.
- Bashour I.** Collection of representative soil and plant tissue samples from agricultural land. In association with YMCA / March 2006.
- Abu Jawdeh Y., **I. Bashour, M.R. Darwish**, M. Haidar, **M.N. Nimah, M. Sidahmed** and F. Suleiman. 2005. *Forage Crop Production in Lebanon*. AUB – MercyCorps – USAID, Beirut, Lebanon. 110 pages.
- Darwish M. R.**, “Assessing the Economic Feasibility of Mechanized Forage Production: *“Towards a Sustainable Future of Forage Production in Lebanon”*”, Mercy corps, AUB, 2005.
- Darwish M. R.**, and Munif M. Abu-Rish, “Economic Assessment for Stimulating Markets and Rural Transformation Program (SMART)”, Final Report, YMCA-USA, Lebanon, 2005
- M.R. Darwish** Technical editor and producer of chapter four of the training manual:
- M. R. Darwish**, Sawsan Hajjar, Mohammad Jamil, Ziad Moussa, and Philippe Zghieb, *Investigating Financial Appraisals for Developmental Projects (IFAD Pro)*, Environmental and Sustainable Developmental Unit, FAFS, AUB, April 2006.
- Nimah M.N.**, S.K.Yau and I. Toufeili. 2006. Introduction of Saffron in the Bekka – Lebanon: Selection and Agronomic Studies. Final Report to LNCR.
- Nimah M.N.** Irrigation Water Requirements and Irrigation Scheduling. The Training Workshop on the Management on Irrigation and Fertigation. ACSAD, Damascus, Feb –Apr, 2006. pp. 41.
- Nimah M.N.** Waste water treatment in Kura region and its reuse: Suggestions & Alternatives. Waster Water Management in Kura: Problems and solution Workshop, NDU / Lebanese Social Society, April 2006.
- Nimah M.N.** Water in Lebanon: Problems & Solutions. Rotary Club Tripoli, North Lebanon, March 29, 2006.
- Nimah M.N.** Monitoring Water Quantity. FAO/NDU – TCP Irrigation Project, May 10 – 11, 2006.
- Nimah M.N.** Irrigation of Forage Crops (In Arabic). USAID, CHF, FRM, May 19, 2006.
- Zurayk, R.** Enhancing Livelihoods of Poor Farmers in South Lebanon: Community Supported Agriculture (Final report)

- Zurayk, R.** Understanding Water, Understanding Health: The Case of Bebine (First progress report)
- Zurayk, R.** Regional Training and Knowledge Sharing in Urban Agriculture for the Middle East and North Africa (First progress report)
- Zurayk, R.** Global Environment Outlook (GEO 4) (First progress report)

## **RESEARCH PROJECTS**

### **Dr. Bashour**

- URB – Bashour and Yanni. Non Nutritive Trace Elements content of Synthetic Fertilizers in Lebanon (10 000 USD budget).

### **Dr. Farajalla**

- Effects of El Nino and La Nina on precipitation patterns in Lebanon (ongoing).
- Development of an instrumented experimental watershed (ongoing).
- Studying the correlation between precipitation, air temperature, and soil temperature and productivity of rain fed crops (completed).
- Develop a simple statistical rainfall estimation model for Beirut, Lebanon (completed). A statistical model has been developed to predict rainfall in Beirut, Lebanon using the statistical method ARIMA.
- Studying the Chemical Composition and Alkalinity of Rainfall in Lebanon on-going).
- Evaluation of pollution in the Aammiq wetlands and Tyre Coast Nature Reserve (completed).
- Development of a decision support system for the siting of wastewater treatment facilities (completed).
- Development of a Monitoring program for the Palm Island Nature Reserve (€20,000 IUCN and MoE)
- Assessing the impact of the War on the Chemical Composition of Rainfall in Lebanon (\$10,000 UNEP for Phase 1)

### **Dr. Nimah**

- URB - Fertigation with Phosphoric Acid (H<sub>3</sub>PO<sub>4</sub>) For Orobanche Ramosa Control In Potato (Co-investigator).
- LNCSR – Saffron Production
- Effect of deep root irrigation, and strip irrigation on yield and irrigation efficiency.
- Modeling the effects of deficit irrigation and depth of root wetting on irrigation water saving, crop yield and quality, and water productivity.
- Water Productivity and Virtual Water. Friends of Ibrahim Abed El-Aal Association.

### **Dr. Zurayk**

- Understanding Water, Understanding Health: The Case of Bebine. Granting agency: IDRC. Value: USD 340,981.02. Duration: Dec. 27, 2004 – Dec. 26, 2007. Status: IGESP director.
- Regional Training and Knowledge Sharing in Urban Agriculture for the Middle East and North Africa – 2005-2006. Granting agency: Cities Feeding People Initiative of the International Development Research Center. Value: CAD 471,980. Duration: 2005-2006. Status: Project manager.
- Global Environment Outlook (GEO 4). Granting agency: United Nations Environment Programme. Value: USD 10,000. Duration: 2005-2007. Status: Project manager

## **Long Term Faculty Development Grants**

- **Dr. R. Darwish.** 6-month long-term faculty development at EARTH University, Costa Rica, Fall 2006. Economic assessment of biodiversity and of non-traditional alternative feed rations for livestock.
- **Dr. M.N. Minah.** 50-days long term faculty development at Oregon State University, Corvallis, Oregon. Summer 2006. Working on a book titled “Basic Irrigation Management and System Design” with Richard Cuenca and Marshal English and consulting on “On-line Irrigation Scheduling and Management”.

## **Attended Conferences and Workshops**

### **Dr. Bashour**

- MEED’s Middle East Fertilizers Conference, Dubai, March 5 – 6, 2006.

### **Dr. Farajalla**

- Participated as a trainer in the Integrated Water Resources Management workshop which was organized by UNDP on 16 – 18 January, 2006, Cairo, Egypt.
- Attended and presented a paper at AWRA Specialty Conference on GIS in Water Resources, May 8 – 10, 2006, Houston, Texas, USA.

### **Dr. Nimah**

- AFA 12<sup>th</sup> International Annual Fertilizer Conference. Cairo – Egypt. February 6 - 8, 2006.
- Management of Irrigation and Fertigation training workshop, sponsored by BADEA (Bank for Economic development in Africa) and ACSAD (Arab Center for the Studies of Arid Zones and Dry Areas). Damascus, Syria, March 6 – April 2, 2006,
- 1<sup>st</sup> International Conference on Sustainable Irrigation Management, Technologies and Policies, Wessex Institute of Technology, Bologna, Italy, 5 – 7 September, 2006.
- 12<sup>th</sup> Scientific Meeting of Saudi Arabia. Agricultural Scientific Association, King Saud University, Riyadh Saudi Arabia, September 28, 2005.
- FAO/NDU Workshop on Water Quality Monitoring. May 10-11, 2006, Beirut, Lebanon.

### **Dr. Zurayk**

- First Global & Regional Development Workshop of GEO-4. September 12-15, 2005, in Bangkok, Thailand
- First Plausible Futures meeting of the International Assessment of Agricultural Sciences and Technology for Development (IAASTD). October 11-15, 2005, in Washington.
- Second Production & Review Meeting Global & Regional Development Workshop of GEO-4. December 4-6, 2005, in Manama-Kingdom of Bahrain.
- Abu Dhabi International Festival for Environmental Films (ADIEFF). May 7- 11, 2006, Abu Dhabi.
- Regional Consultation on Linking Farmers to Markets: Lessons Learned & Successful Practices. Jan. 28- Feb. 2, 2006, in Cairo, Egypt
- Ecohealth MENA/WAF Regional Fund Workshop. February 27 to March 1, 2006, Mbodiene, Senegal.
- COPEH-MENA meeting to follow up on the Ecohealth project “Community of Practice in Ecohealth in Middle East & North Africa” implemented by IGESP, and on the community of practice in ecosystem health. March 2-3, 2006, Mbodiene, Senegal.
- GEO-4 Chapter 1 Lead Authors meeting that was held from Feb. 13-15, 06 in Bilthoven, the Netherlands

## **Services of LWRS Faculty Members**

### **Dr. Bashour**

- Three posters to YMCA;
  - a. Deficiency symptoms in fruit trees
  - b. Deficiency symptoms in Vegetables
  - c. Methods of soil sampling
- Participated in 4 workshops sponsored by YMCA, 3 workshops sponsored by Isam Fares and 6 workshops for the forage farmers
- Supervising Soil Analysis at LWRS – FAFS at AUB
- Chairperson of LWRS, FAFS
- Coordinator of the forage improvement production program
- Representing FAFS in the Central Research Science Laboratory Committee
- Representing FAFS at the Teaching excellence committee (AUB)
- Representing FAFS in Senate (AUB)
- Member of interfaculty Lab Committee.
- Administrative, Academic and Curriculum, Library and Research Committee and Academic Development Committee
- Safety Officer, FAFS
- Member of the fertilizer committee of the Ministry of Agriculture.
- Reviewed 2 scientific papers to EOLSS encyclopedia and soil and environment journal.
- Participant in “Forage Development Program” in Bekaa
- Reviewed the Near East Fertilizer Manual to be published by the FAO office / Rome, Italy (224 pages).

### **Dr. Darwish**

- Core Trainer for a 5-day workshop on” Investigation Project Feasibility and Sustainability”, ESDU, FAFS, AUB, April 2006

### **Dr. Farajalla**

- Member of the AUB Web-Oversight Committee
- Member Faculty Academic and Curriculum Committee
- Member of the Advisory Committee for the review of the Lebanese National Action Programme for Combating Desertification

### **Dr. Nimah**

- University Financial committee – AUB
- Ad-Hoc Committee for University Graduate Admission – AUB
- FAFS Graduate Studies Committee.
- Advisor to YMCA in Rural development Project
- Participant in “Forage Development Program” in Bekaa
- Member of the new Joint Program with FEA of the new MSc Program “water resources studies”
- Lebanese Order of Engineers. Committee on Water and Dams. Order Of Engineers, Lebanon 1999 – Present

### **Dr. Zurayk**

- Coordinator of the Ecosystem Management Program
- Director of the Interfaculty Graduate Environmental Sciences Program
- Member of the strategic planning committee for FAFS

- Manager of the “Regional Training and Knowledge Sharing in Urban Agriculture for the Middle East and North Africa – 2005-2006” project
- Manager of the “Global Environment Outlook” (GEO 4)

### 1. Courses Offered by LWRS

#### • Undergraduate

Semester	Course #	Course Name	Instructor
<b>Fall 05-06</b>	LWRS 215	Introduction to Soil	Dr. R. Zurayk
	LWRS 241	Farm management	Ms. C. Moukarzel
	ENSC 202	The Environment and Sustainable Development	Dr. R. Zurayk
	LWRS 212	Agricultural Economics, Principles and Policy	Dr. Y. El-Khalil
	LWRS 290	Project Planning and Appraisal	Dr. Y. Shibel
	LDEM 245	Irrigation Methods for Landscape Designs	Dr. M. Nimah
	AGRL 250	Theory and Practice of Organic Farming Systems	Dr. R. Zurayk
<b>Spring 05-06</b>	LDEM 229	Turfgrass Culture, Machinery and Management	Dr. M. Sidahmed
	LWRS 265	Soil Fertility	Dr. I. Bashour
	AGRL 201	Orientation to Agriculture and Food Systems	Dr. N. Farajalla
	LWRS 229	Water and the Environment	Dr. N. Farajalla
	LWRS 212	Agricultural Economics, Principles and Policy	Dr. R. Darwish
	LWRS 228	Irrigation Principles	Dr. M. Nimah
	LWRS 227	Surveying and Irrigation Principles	Dr. M. Nimah
<b>Summer 05-06</b>	LWRS 225	Farm Power and Machinery	Dr. M. Sidahmed
	AGRL 235	Agricultural Extension in Development	Dr. A. Kharrat

#### • Graduate

Semester	Course #	Course Name	Instructor
<b>Fall 05-06</b>	LWRS 309	Drainage of Agricultural Lands	Dr. N. Farajalla
	LWRS 312	Fertilizer Technology and Use	Dr. I. Bashour
	LWRS 328	Sprinkler and Micro-irrigation Engineering	Dr. M. Nimah
	AGRL 301	Statistical Methods in Agriculture	Dr. M. Sidahmed (50%)
<b>Spring 05-06</b>	ENSC 630	Natural Resources Management	Dr. R. Zurayk
	ENSC 631	Agricultural Pollution and Control	Dr. I. Bashour
	AGRL 301	Statistical Methods in Agriculture	Dr. M. Sidahmed (50%)
	AGRL 302	Scientific Communications	Dr. M. Sidahmed (50%)
	LWRS 374	Operations Research Principles and Applications	Dr. R. Darwish
	LWRS 326	Surface Irrigation Engineering	Dr. M. Nimah
	LWRS 316	Ground Water Hydrology	Dr. N. Farajalla

## 2. M.Sc. Students

MSc student	Thesis title	Major	Advisor	Date of Graduation
Alia Alameddine	Efficacy of Ammonium Hydroxide and hydrogen peroxide for the Control of Root Knot Nematode, Fusarium and Verticillium Wilt	Soils	I. Bashour (major advisor) & A. Saad (co-advisor)	
Rita Wakim	Selenium Levels in Selected Lebanese Soils, Grains, Vegetables and Fruits	Soils	I. Bashour	
Bashar Berro	Feasibility of Establishing a Bulk Blend Fertilizer Facility in Lebanon	Soils	I. Bashour (major advisor) & R. Darwish (co-advisor)	
Joy El-Jadam	A Spatial Decision-Making Approach For Siting Wastewater Treatment Facilities - Case Study In Lebanon	Ecosystem Management	N. Farajalla	Spring 2006
Nadine Aoun	Acid Rain and Chemical Composition of Rainwater in Lebanon	Irrigation	N. Farajalla	
Maya Mhanna	Modeling Temperature Trends in Lebanon	Irrigation	N. Farajalla	
Joanna El-Khoury	Water and Sediments quality in Lebanese Wetlands: Ammik Wetland and Tyr coast Nature Reserves	Ecosystem Management	N. Farajallah	Spring 2006
Rola Bashour	Not yet decided	Irrigation	M. Nimah	
Soraya Moukarzel	Virtual Water And Water Productivity For A Strategic Plan Of Optimal Use Of Water Resources Case Study: Lebanon	Irrigation	M. Nimah (Major advisor) & R. Darwish (Co-advisor)	Spring 2006
Rania Fadl Khalil	The Economics of Using Agricultural Wastes As Feed Sources: Recycling Bad Into Good	Agricultural Economics	R. Darwish	Spring 2006
Yousef Doghan	Agritourism: A Sustainable Alternative to Improve the Financial and Economic Welfare of Lebanese Farmers	Agricultural Economics	R. Darwish	Spring 2006
Lina Yamout	Economic Feasibility of Ecotourism as a Way to Enhance Monetary Benefits to Protected Areas: The Case of Horsh Ehdn Nature Reserve, Lebanon.	Agricultural Economics	R. Darwish	Spring 2006

Joumana Karameh	Economic Assessment of the Agricultural Extension Service in Lebanon: Current Status And Its Role In Agricultural Development	Agricultural Economics	R. Darwish (Co-advisor)	
Haya Al-Assi	The Diet of <i>Fistularia commersonii</i> piscivore in The Mediterranean Sea	Ecosystem Management	R. Zurayk	
Nadine Modad	Survey & Identification of Wild Mushrooms in Lebanon	Ecosystem Management	A. Saad	Spring 2006
Rana El Hajj	Indicators of Microbial Pollution, Drug Resistance, & Heavy Metals Recovered from Different Species of Edible Oysters in the Eastern Mediterranean	Ecosystem Management	E. Barbour	
Grace Rachid	Evolution of Natural Resource Management in Mount Lebanon: The Case Of Batloun El- Shouf 1935-2005	Ecosystem Management	R. Zurayk	
Maya Yammine	The impact of land mines on natural resource management: The case of Deir el Kamar	Ecosystem Management	R. Zurayk	
Khaled Hamdan	The conservation Of Orchid Species in Lebanon: A Holistic Approach	Ecosystem Management	S. Talhouk	
Alia Sabra	Oil spill impact on bivalves of the Lebanese coast	Ecosystem Management	E. Barbour	

### 3. Graduate Assistants

Fall Semester 05-06	Spring Semester 05-06	Summer Session 05-06
Alia Alameddine Rita Wakim Maya Mhanna Nadine Aoun Maya Yammine Sami Khairallah Carine Elia Bashar Berro	Alia Alameddine Carine Elia Sami Khairallah Nadine Aoun Rola Bachour Alia Sabra Bashar Berro	Carine Elia Sami Khairallah Nadine Aoun Maya Mhanna

### 4. Research Assistants

<i>Semester</i>	<i>Part time (Grant)</i>	<i>Full time (Grant)</i>
<b>Fall 05-06</b>	Marcos Hado Hiba Tiro Adonis Akl (project Driver) Joanna Khoury	Nivine Hajj Hassan Safaa Hojeij Hind Farah Ziad Moussa Rola Faress

<b>Spring 05-06</b>	Hiba Tiro Adonis Akl (project Driver) Maroun Afram	Nivine Hajj Hassan Safaa Hojeij Hind Farah Ziad Moussa
<b>Summer 05-06</b>	Alia Alameddine Rita Wakim Marcos Hado Hiba Tiro Adonis Akl (project Driver)	Nivine Hajj Hassan Safaa Hojeij Hind Farah Ziad Moussa Rola Faress

## 5. Analysis of Soil and Water

The LWRS Department offers soil, water, plant tissue, and fertilizer analysis services to the Lebanese farmers and the private sector in Lebanon and neighboring countries. Chemical and physical analysis was carried out at the LWRS laboratories by the departmental research assistant Sandra Yanni and interpretation of the results and recommendations were given by Dr. Isam Bashour.

A new Atomic Absorption Spectrophotometer was received and installed at the LWRS atomic absorption laboratory.

The revenue obtained from this activity was about 2 300 000 L.L. In addition, many samples were received from AREC, other departments at FAFS/AUB and graduate students. These samples were analyzed for free. The following table shows the number of analysis conducted using the newly purchased equipment for the LWRS Department.

<b>Equipment</b>	Kjeldahl Digester and Kjeldahl Distillator	Aquamate Spectrophotometer	Flame Photometer	Atomic Absorption Spectrophotometer	Microwave Digester
<b>Analysis / Measurement</b>	Nitrogen / Protein	Phosphorous and Nitrate	Potassium, Sodium and Calcium	Macro and Micronutrients	Plant tissue and soil digestion
<b>Number of Sample</b>	100	300	1136	1870	450

## 6. Future LWRS Needs and Plans

- 1- It was requested on ASHA budget to establish an irrigation and soil center at AREC to be used for teaching, research and training on modern irrigation equipment and efficient water use.
- 2- Hire a permanent research assistant to operate and be responsible about equipment at LWRS labs. The LWRS received and installed microwave digester, C:N analyzer, flame photometer, spectrophotometer, Kjeldahl unit, atomic absorption spectrophotometer and other expensive lab equipment. We are facing difficulties due to the lack of regular maintenance, and it is recommended that a maintenance contract be signed with Medical Engineering for this purpose.
- 3- Add to the faculty members, at the LWRS department, a soil microbiologist to complement the existing activities of the department and participate in environmental research activities at AUB.

## DEPARTMENT OF NUTRITION AND FOOD SCIENCES

2005-2006

**Nahla Hwalla, Chairperson**

### SUMMARY

The Nutrition and Food Science faculty members conducted their regular research and teaching activities as well as supervised work for graduate students.

NFSC faculty members participated in international conferences and were involved in consultancies for international organizations and regional universities.

Dr. Sana Ghaddar, a professor in Nutrition and Dietetics, joined the Department on September 15, 2004.

Dr. Ammar Olabi, a Professor of Food Science, joined the Department on September 15, 2005.

In the academic year 2004-2005 the average total number of enrollment in the NFSC Department was 272 students in the undergraduate programs (147 in Nutrition and Dietetics and 125 in Food Science and Management), and 42 students in the graduate programs (28 in Nutrition, 13 in Food Technology and 1 special student).

Seventy one students graduated with B.S. in the academic year 2004/2005: 63 in Nutrition and Dietetics and 8 in Food Science and Management; and ten students graduated with M.S.: 7 in Nutrition and 3 M.S. in Food Technology.

Total number of credits taught in the Department in the academic year 2004-2005 was 152: 62 in the Fall Semester, 68 in the Spring semester and 22 in the summer Semester.

### NFSC FACULTY AND STAFF

#### a. Academic

Nahla Hwalla (Ph.D., R.D.), Chairperson, Professor

Raja Tannous (D.Sc), Professor

Imad Toufeili (Ph.D.), Professor

Omar Obeid (Ph.D.), Associate Professor

Malek Batal (Ph.D.), Assistant Professor

Zeina Kassaify (Ph.D.), Assistant Professor

Sana Ghaddar (Ph.D.); Assistant Professor

Basma Hamadeh (M.S.), Instructor

Maria Koleilat (M.S.), Instructor in Fall and Spring and part-time Research Assistant in Summer

Carla Habib (M.S.), Part-time Instructor

Micelle Iskandar (M.S.), Part-time Instructor

Mireille Harmouch (M.S.), Part-time Instructor

Wilma Zaccour (M.S.), Part-time Instructor

Nada Adra (M.S.), Senior Research Assistant

Amal Malek (M.S.), Research Assistant

Yara Sfeir (M.S.), Research Assistant (Dr. Batal)

Linda Shaker (M.S.), Part-time Research Assistant (Dr. Batal)

Cynthia Farhat (B.S), Part-time Research Assistant (Dr. Batal)

Hussein Abu Saleh (B.S), Part-time Research Assistant (Dr. Batal)

Mohamad Najjar (M.S.), Part-time Research Assistant (Dr. Kassaify)  
Imad Nahle (B.S.), Research Assistant (Dr. Ghaddar)  
Hala Makhoul ( M.S.), Research Assistant ( Dr. Toufeili)

**b. Non Academic**

Samir Touma, Associate Technician  
Ghassan Kadi, Associate Technician  
Arsine Derboghassian, Associate Technician  
Tania Ghannam, Clerk/ Stenographer  
Mustapha Rawda, Laboratory Aid

**ACTIVITIES OF NFSC DEPARTMENT**

Meeting with Mr. Coffman: NFSC faculty members met, on Thursday May 5, 2005 with Mr. Coffman, member of the Board of Trustees. The Department suggested the following issues to Mr. Coffman :

- The need for additional resources i.e. funds and facilities
- “The Food Composition Tables for Use in the Middle East” published by the Department in 1970 should be revised, and resources should be allocated for it.
- The establishment of Nutrition and Food Center

**FUNDED RESEARCH PROJECTS**

**Dr. Hwalla**

- Principal Investigator: Effect of Macronutrient Composition of Meals on Postprandial PYY Response of Healthy Subjects. URB. (8,600 US\$) 2004-2005.
- Co-Investigator: Comparison between Ocimum basilicum Seed, Husk of Plantago psyllium & Nigella sativa Seed Consumption on Insulin, Glucocorticoid Level, & Blood Parameters in Diabetic Rats. IBSAR. (20,000 US\$) 2004-2005.
- Co-Investigator: Wild Edible Plants: Promoting Dietary Diversity in Poor Communities of Lebanon” IDRC. ( 200,000 Can\$) Dec. 2004-Dec. 2006

**Dr. Tannous**

- Principal Investigator: Testing Microbiological Contamination of Meat Products in Lebanon. Funded by UNIDO. (13000 US\$). May 2005 – September 2005

**Dr. Toufeili**

- Principal Investigator: Roles of Asparagine, Glutamine and Reducing Sugars and Baking Time/Temperature in the Formation of Acrylamide in Arabic Bread. URB. (8,500 US\$) October 1, 2004 – September 30, 2005

**Dr. Obeid**

- Principal Investigator: Postprandial Chrelin Status Following Macronutrient Manipulation of Meals in Adult Females. URB. (6500 US \$). 2004-2005

**Dr. Batal**

- Principal Investigator: Wild Edible Plants: Promoting Dietary Diversity in Poor Communities of Lebanon. International Development Research Centre IDRC, Ottawa. (200,000 Can\$). 2004-2006
- Principal Investigator: Complementary Feeding in Lebanon: Determinants and Nutritional Adequacy. URB. (6,500 US\$). 2004-2005.
- Co-Investigator: Holistic Landscape Approach to Biodiversity Use in Lebanon: Partnering with Landowners. Initiative for Biodiversity Studies in Arid Regions. (73,200

US\$, Phase I). 2004-2005.

- Co-Investigator: Assessment of Nutritive Value of Two Mediterranean Fishes with Seasonal Comparisons between Species. URB. (8,000 US\$). 2004-2005.

**Dr. Kassaify**

- Principal Investigator: The Inhibitory Effects of Different Essential Oil Formulations in Meat and Poultry Traditional Marinades against Food Borne Pathogens. URB (7,600 US\$) .October 2004-September 2005
- Co- Investigator: Testing Microbiological Contamination of Meat Products in Lebanon. Funded by UNIDO. (13000 US\$). May 2005 – September 2005

**Dr. Ghaddar**

- Principal Investigator: Dietary and Behavioral Characteristics of Normal Weight versus Hyper-and Normoinsulinemic Normoglycemic Obese Subjects. Seed Grant Budget.URB. (7,000 US\$). February 2005-September 2005.

### SHORT / LONG TERM FACULTY DEVELOPMENT

**Dr. Hwalla**

- Attended the fourth annual meeting of the International Society of Behavioral Nutrition and Physical Activity (ISBNPA) in Amsterdam, Netherlands and presented an abstract on “Diet and physical activity as determinants of non-communicable disease risk factors in Lebanon” June 15 till June 19, 2005.

**Dr. Tannous**

- Attended the “2005 IFT Annual Meeting and Food Expo” in New Orleans, Louisiana-USA and presented a paper on “Adulteration and microbial contamination of Tehineh”. July 16 - July 20, 2005

**Dr. Toufeili**

- Attended the “2005 IFT Annual Meeting and Food Expo” in New Orleans, Louisiana-USA and presented a paper on “Comparison of consumer-and expert panel- based approaches for determining shelf life of sunflower oil using Weibull hazard analysis ”. July 16 - July 20, 2005

**Dr. Obeid**

- Attended the “Nutrition Society Summer Meeting 2005” and presented two posters on “The acute effect of Leptin injection on the in vivo postprandial glycogen and lipid synthesis in rats” and “No acute effect of ghrelin injection on in vivo postprandial glycogen and lipid synthesis in rats” .University of East Angelia, Norwich .June 28 - July 1, 2005.

**Dr. Batal**

- Long term faculty development: Macgill Universiy with Dr. Katherine Gray-Donald. July 1 – September 1, 2005

**Dr. Kassaify**

- Attended the “2005 IFT Annual Meeting and Food Expo” in New Orleans, Louisiana-USA and presented a paper on “Microbiological quality of Halawet el Jibn (a Lebanese Cheese-based pastry) and the application of HACCP. July 16 - July 20, 2005

**Dr. Ghaddar**

- Attended the “Third Anemia in CKD Workgroup Clinical Meeting,” by invitation from the National Kidney Foundation/Kidney Disease Outcomes Quality Management Team, and presented updates on two topics “Using Iron Agents” and “Setting Iron Status Targets” for patients with chronic kidney disease. San Francisco, California. August 5-6, 2005

**CONSULTANCIES****Dr. Hwalla**

- Consultation with Kuwait on Omega 3 Fatty Acids Association. October 2004
- Organized and participated in a workshop to educate physicians on medical nutrition therapy for diabetes. Damascus, Syria. December 4-5, 2004
- Regional consultation with FAO on Food Based Dietary Guidelines at WHO Eastern Mediterranean Office. Cairo, Egypt. December 6-10, 2004.
- Participated as a guest speaker in the “Second Diabetic Diet Course DDC” at King Abdulaziz University hospital in Riyadh, Saudi Arabia and presented a lecture on” Diet in Diabetes’. The conference was organized by the Diabetes Center, King Abdulaziz University. April 9-10, 2005
- Organized a workshop and prepared a “Clinical Nutrition Curriculum” at the “National Center for Diabetes, Endocrinology and Genetics in Jordan”. May 14 - May 16, 2005.
- Fe Fortification and Fe Deficiency Anemia .IEAE Vienna. June 20-24,2005

**Dr. Tannous**

- Olive Oil Project in Jordan. October 2004

**Dr. Obeid**

- Participated in a consultancy on “Iron deficiency anemia and iodine deficiency disorders guidelines” in the WHO Eastern Mediterranean Regional Office in Cairo. April 26 - 28, 2005

**Dr. Kassaify**

- Bonjus, Microbiological Methods for testing of Dairy and Ice Cream Products. May 2005-June 2005
- IBSAR, proposal on bread fortification with functional ingredients. May 2005-June 2005
- A.O. Ghandour, Salmonella in Tahini, July 2005
- Food Quality and Safety Assessment for Mediterranean Countries" E.U. Commission and Ministry of Agriculture September 2005

**Dr. Ghaddar**

- Organized and participated in a workshop to educate physicians on medical nutrition therapy for diabetes. Damascus, Syria. December 4-5, 2004
- Presented a lecture entitled “Get Fit - A New Year Resolution.” Sawsan Wazzan, Diet Center. December 10, 2004.
- Organized a workshop and prepared a “Clinical Nutrition Curriculum” at the “National Center for Diabetes, Endocrinology and Genetics in Jordan.” May 14 - May 16, 2005.

**PARTICIPATION IN WORKSHOPS AND CONFERENCES****Dr. Hwalla**

- Participated in the “3<sup>rd</sup> International Congress on the Columbus Concept” and presented a lecture on “Omega 3 fatty acids and health.” Brussels. October 5-9, 2004
- Attended a training program on the DEXA machine organized by the Hologic and Tamer

- Company in Boston, USA. January 30- February 3, 2005
- Attended the PhD thesis defense of Mrs. Lara Nassereddine which was held at the Universite de Bretagne Occidentale” in Brest. Dr. Hwalla is a member of the supervisory committee of Mrs. Nassereddine’s PhD thesis. March 20 - March 22, 2005
- Participated in the international conference on “Mediterranean Foods: Reasons to Defend it” and presented a lecture on “Health benefits of the Mediterranean diets” The conference was organized by the Mediterranean Food Institute which belongs to the Agriculture and Fisheries Regional Ministry of Andalusia. Malaga, Spain. March 31, 2005.
- Gave a presentation on “Dietetic Practice in Lebanon” at USJ, Beirut, Lebanon. April 22, 2005.
- Attended a conference on “Gastroenterolgy “and presented a lecture on “Obesity in Lebanon.” Damascus Ebla-Elshan. July 14, 2005.

#### **Dr. Tannous**

- Attended USA Food Labeling Guide II sponsored by Stanford Research Institute. Beirut, Lebanon. November 2004.
- Attended Quality Advisory Meeting sponsored by European Union Quality Lebanon Program. Beirut, Lebanon. December 2004.
- Attended the Quality Advisory Committee in Beirut, sponsored by European Union Quality Lebanon Program. April 22, 2005
- Attended “Tehineh and Halaweh Workshop” sponsored by UNIDO. Beirut, Lebanon. June 17, 2005

#### **Dr. Obeid**

- Invited to present a lecture entitled “Micronutrients in Health and Disease” at the Second Arab Nutrition Conference. Manama, Bahrain. December 7-10, 2004.
- Invited to participate in the teaching of: Public health in complex emergencies course organized by Public health school. AUB. Feb28-march 12, 2005
- Participated as a guest speaker in the “Nutrition and Chronic Diseases Conference” in Riyadh, Saudi Arabia. Dr. Obeid presented a paper on “Olive Oil and Chronic Diseases.” The conference was organized by the Medical Center of Dr. Sleiman Al Habib in collaboration with the Arab Center for Nutrition. April 11-15, 2005
- Participated in the Third National Congress “ Hot Topics in General Practice” organized by the Lebanese order of Physicians and Lebanese Society of General Practice and presented two lectures entitled: “ Food Intake Control: the Role of Macronutrients” and “ Nutrition and Cardio-Vascular Diseases”. Beit Attabib- Beirut, Lebanon. April15-16, 2005

#### **Dr. Batal**

- Presented a paper on “Breastfeeding Status in Lebanon” at the Second Arab Nutrition Conference. Manama, Bahrain. December 6-9, 2004.
- Attended a meeting on “Promoting Community –driven Conservation and Sustainable Use of Dryland Agrobiodiversity”. Aleppo, Syria. April 18-21, 2005.
- Attended a conference COHAB2005 on Biodiversity and Health in Galway Ireland and presented a paper on “ The potential of biodiversity-based traditional Lebanese recipes in improving dietary diversity and food security” August 22-26, 2005.
- Research Leave during Fall Semester 2005-2006 funded by William and Flora Hewlett Foundation grant that enables junior professors to take time off teaching to better focus on their research activities. Dr. Batal will spend part of the research leave at McGill University with Professor Timothy Johns, tackling issues of toxicity in wild plants and effects on diet.

### **Dr. Kassaify**

- Attended a workshop on Export Labeling and Packaging for the Lebanese Food Industry. Beirut Export Center, Lebanon. September 29-31, 2004
- Presented at the NCLW workshop on Food Safety of Lebanese Traditional Foods. Hazmieh, Lebanon. October 1, 2004
- Taught a postgraduate Food Microbiology Course in the Mediterranean Agronomic Institute of Chania. Greece. December 13- 17, 2004
- Presented two lectures on Food Laws and Food Microbiology. Balamand University. May 4 and June 6, 2005
- Attended Mycotoxin Workshop and Analysis Training. FAFS, AUB. June 22, 2005

### **Dr. Ghaddar**

- Presented two lectures entitled “Using Iron Agents” and “Setting Iron Status Targets” for Chronic Kidney Disease Patients at the National Kidney Foundation - K/DOQI Anemia Group Meeting. Dallas, Texas. January 19-21, 2005.
- Participated in the Third National Congress “Hot Topics in General Practice” organized by the Lebanese order of Physicians and Lebanese Society of General Practice and presented a lecture entitled: “Medical Nutrition Therapy for Renal Disease.” Beit Attabib- Beirut, Lebanon. April 15-16, 2005

## **OTHER ACADEMIC ACTIVITIES**

### **Dr. Obeid**

- Attended seminar on developing a teaching portfolio. February 25, 2005
- Attended the XXXIX Middle East Medical Assambly (MEMA) at AUB. May 12-15, 2005

## **PUBLICATIONS**

### **I. INTERNATIONAL REFERRED JOURNALS**

#### **Dr. Hwalla**

- Najjar N, Adra N, and **Hwalla N**, 2004. Glycemic and Insulinemic Responses to Hot Versus Cooled Potato in Males with Varied Insulin Sensitivity. *Nutrition Research*, 24:993-1004. (*Corresponding author*)
- Lara Nasreddine, **Nahla Hwalla**, Abla Sibai, Mouin Hamzé, Dominique Parent- Massin, 2005. Food consumption patterns in an adult urban population in Beirut, Lebanon. *Public Health Nutrition, In Press*. (*Corresponding author*)
- **Nahla Hwalla**, Abla Mehio Sibai, Nada Adra, 2005. Adolescent obesity and physical activity. *World Review of Nutrition and Dietetics*, 94:42-50.
- **Nahla Hwalla**, Linda Shaker, Naji Torbay, Sami T Azar, Zuheir Habbal, Nada Adra, 2005. Postprandial glycemic and insulinemic responses to high carbohydrate versus high protein meals in obese normoglycemic subjects with varied insulin Sensitivity. *Nutrition Research*, 25:535-48.
- **Obeid OA**, Bitar S, **Hwalla N**, Torby N and Emery PW. Effect of diet supplementation with glutamine, dihydroxyacetone and leucine on food intake, weight gain and postprandial glycogen metabolism of rat. *Nutrition*, 2005, 21: 224-229
- Rania Abou-Samra, **Nahla Hwalla**, Naji Torbay, Lea Dib, Ghada El-Hajj Fuleihan, 2005. High plasma leptin is not associated with higher bone mineral density in insulin resistant premenopausal obese women. *Journal of Clinical Endocrinology & Metabolism*, 90:2588-2594
- Al Awar RM, **Obeid OA**, **Hwalla N**, Azar S. Postprandial acylated ghrelin status following fat and protein manipulation of meals in healthy young women. *Clinical*

Science, 2005, 109:405-411.

- **Obeid OA**, Boukarim LK, Al Awar RM, **Hwalla N**. Postprandial glycogen and lipid synthesis in prednisolone-treated rats maintained on high protein diets with varied carbohydrate levels. Accepted (Nutrition)
- **Obeid OA**, Al-Ghali RM, Khogali M, **Hwalla N**. Vitamins A and E status in an urban Lebanese population: A case study at Dar Al-Fatwa area, Beirut. Accepted (Int J Vitam & Nutr Res)

#### **Dr. Tannous**

- Harakeh,S.,Yassine,H.,Gharios,M.,Barbour,E.,Hajjar,Sh.,Elfadel,M.,Toufeili,I., and **Tannous,R**. Isolation, molecular characterization and antimicrobial resistance patterns of Salmonella and E.Coli isolates from meat-based fast food in Lebanon. Science of the Total Environment, 341, 33-44, April 1, 2005.
- Salamoun,M.,Kizirian,A.,**Tannous,R**.,Nabulsi,M.,Choucair,M.,Deeb,M.,and Fuleihan,Gh. Low calcium and Vitamin D intake in healthy children and adolescents and their correlates. European Journal of Clinical Nutrition, 59, 177-184, 2005.

#### **Dr. Obeid**

- **Obeid OA**, Bitar S, Hwalla N, Torby N and Emery PW. Effect of diet supplementation with glutamine, dihydroxyacetone and leucine on food intake, weight gain and postprandial glycogen metabolism of rat. Nutrition, 2005, 21: 224-229
- **Obeid OA**. Plasma amino acid concentrations in patients with coronary heart disease: A comparison between UK Indian Asian and European men. Inter J Vit & Nutr Res, 2005, 75(4):267-273
- Al Awar RM,**Obeid OA**, **Hwalla N**, Azar S. Postprandial acylated ghrelin status following fat and protein manipulation of meals in healthy young women. Clinical Science, 2005, 109:405-411.
- **Obeid OA**, Boukarim LK, Al Awar RM, **Hwalla N**. Postprandial glycogen and lipid synthesis in prednisolone-treated rats maintained on high protein diets with varied carbohydrate levels. Accepted (Nutrition)
- **Obeid OA**, Al-Ghali RM, Khogali M, **Hwalla N**. Vitamins A and E status in an urban Lebanese population: A case study at Dar Al-Fatwa area, Beirut. Accepted (Int J Vitam & Nutr Res)

#### **Dr. Batal**

- **Batal M** and Boulghourjian C (2005). Breastfeeding Initiation and Duration in Lebanon: Are the Hospitals “Mother Friendly”? *Journal of Pediatric Nursing*. Vol. 20(1) pp. 53-59.
- **Batal M**, Receveur O, Gray-Donald K, and Kuhnlein HV (2005) Estimation of Traditional Food Intake in Indigenous Communities in the Yukon and Denendeh. *International Journal of Circumpolar Health*. Vol. 64(1) pp. 46-54
- **Batal M**, Boulghourjian C, Abdallah A, and Afifi-Soweid R (2005). Breastfeeding and feeding practices of infants in a developing country: A national survey in Lebanon. *Public Health Nutrition* (in press)
- Harakeh S, **Batal M**, and Barbour E (2003). Nutritional Consequences Related to “Mad Cow disease” Among Homemakers and Medical Care Practitioners in Lebanon. *Ecology of Food and Nutrition*. Vol. 42(3) pp. 241-254

#### **Dr. Kassaify**

- **Kassaify ZG**, Mine Y. (2004).Nonimmunized egg yolk powder can suppress the colonization of Salmonella typhimurium, Escherichia coli O157:H7, and Campylobacter jejuni in laying hens. *Poultry Science*. 83(9):1497-506.
- **Kassaify Z.G**, Li EW, Mine Y. (2005). Identification of Antiadhesive Fraction(s) in

Nonimmunized Egg Yolk Powder: In Vitro Study. J Agric Food Chem.;53(11):4607-4614.

## II. ABSTRACTS

### Dr. Hwalla

- Mrayati M, **Hwalla N, Obeid OA**. No acute effect of ghrelin injection on *in vivo* postprandial glycogen and lipid synthesis of rats. Presented at the Annual summer meeting hosted by the institute of Food Research Norwich. Plant and Human health. 28-27 July 2005.
- Bassil M, **Hwalla N, Obeid OA**. The acute effect of leptin injection on *in vivo* postprandial glycogen and lipid synthesis in rats. Presented at the Annual summer meeting hosted by the institute of Food Research Norwich. Plant and Human health. 28-27 July 2005

### Dr. Obeid

- Oman: Eating Habits of Students at SQU. Second Arab Nutrition Conference. Manama, Bahrain. December 6-9, 2004
- Mrayati M, **Hwalla N, Obeid OA**. No acute effect of ghrelin injection on *in vivo* postprandial glycogen and lipid synthesis of rats. Presented at the Annual summer meeting hosted by the institute of Food Research Norwich. Plant and Human health. 28-27 July 2005.
- Bassil M, **Hwalla N, Obeid OA**. The acute effect of leptin injection on *in vivo* postprandial glycogen and lipid synthesis in rats. Presented at the Annual summer meeting hosted by the institute of Food Research Norwich. Plant and Human health. 28-27 July 2005.

## III. OTHER PUBLISHED ARTICLES

### Dr. Hwalla

- Nutrition in the Elderly. Article published in MEMA book April 2005

### Dr. Ghaddar

- Author of one chapter of "Aging in Contemporary Society." Yee. 1<sup>st</sup> edition. 2005. Publisher; XanEdu

## UNIVERSITY AND FAFS COMMITTEES

### Dr. Hwalla

- University Strategic Planning
- University IRB Committee
- University Senate Committee
- University Senate Steering Committee
- FAFS Academic and Curriculum Committee
- FAFS Advisory Committee

### Dr. Tannous

- Coordinator of Food Science and Management Program
- FAFS Academic and Curriculum Committee

### Dr. Toufeili

- FAFS Advisory and Research Committees

- Strategic planning General Education Committee
- Teaching Excellence Award Committee

**Dr. Obeid**

- Coordinator of Nutrition and Dietetics Program
- University Board of Graduate Studies
- University Radiation Safety Committee
- FAFS Graduate Studies Committee
- FAFS Research Committee
- FAFS Academic and Curriculum Committee

**Dr. Batal**

- University Students and Faculty Committee
- University Fair Committee
- University Libraries Strategic Planning Committee
- Hariri Fair Committee
- FAFS Students Admission Committee
- FAFS Graduate Studies Committee
- FAFS Library Committee
- FAFS Strategic Planning Committee

**Dr. Kassaify**

- University Library Committee

**SERVICES BY NFSC FACULTY MEMBERS**

**Dr. Hwalla**

- President of the Lebanese Association of Nutrition and Food Science
- Member of Executive Committee of Nour Association for Women.
- Member of the Pharmaton Utility Board to raise awareness across Lebanon of the importance of vitamins and minerals in boosting mental and physical activities
- Member of the editorial board of Annals of Nutrition and Metabolism
- Reviewer of research articles in World Health Organization Bulletin, Nutrition Research and Lebanese Scientific Journal
- Member of Ministry of Health committee on legislation for dietary and herbal supplements.

**Dr. Tannous**

- President of the Lebanese Association for Food Scientists and Technologists

**Dr. Toufeili**

- Member of the Lebanese Association for Food Scientists and Technologists

**Dr. Obeid**

- Member of the Executive Committee of Lebanese Association of Nutrition and Food Science

**Dr. Batal**

- Member of the Lebanese Association of Nutrition and Food Science

**Dr. Kassaify**

- Member of the Ministry of Agriculture committee 'improvement of the poultry industry

- of Lebanon including husbandry and slaughter houses'
- Member of UN-ESCWA Network on Agro-food Processing
- Member of EU-FAO Committee for Food Safety and Quality

### COURSES OFFERED BY NFSC DEPARTMENT

#### Fall

Course	Credits	Enrollment	Instructor
NFSC 220	3	54	Mrad
NFSC 221	3	66	Hwalla, Koleilat
NFSC 222	3	53	Batal
NFSC 240	2	49	Batal, Koleilat
NFSC 261	3	47	Toufeili
NFSC 265	3	62	Toufeili
NFSC 267	2	20	Hamadeh
NFSC 274	3	56	Obeid
NFSC 277	3	36	Kassaify
NFSC 282	2	38	Kassaify
NFSC 288	3	36	Tannous, Hamadeh
NFSC 290	3	88	Ghaddar, Koleilat, Iskandar
NFSC 296	1	44	Batal
NFSC 299	2	22	Kassaify
NFSC 300 A	1	4	Obeid
NFSC 300 A	1	2	Hwalla
NFSC 300 A	1	2	Toufeili
NFSC 300 B	2	2	Obeid
NFSC 300 B	2	1	Toufeili
NFSC 300 C	3	3	Toufeili
NFSC 300 C	3	1	Hwalla
NFSC 311	3	9	Hwalla
NFSC 312	3	11	Ghaddar
NFSC 314	3	6	Obeid
NFSC 370	3	9	Tannous
NFSC 395	1	2	Hwalla
TOTAL	62		

#### Spring

Course	Credits	Enrollment	Instructor
NFSC 220	3	56	Mrad
NFSC 221	3	79	Batal/Koleilat
NFSC 261	3	70	Toufeili
NFSC 267	2	67	Hamadeh / Zaccour
NFSC 278	3	32	Kassaify
NFSC 285	3	47	Obeid / Harmouch
NFSC 287	2	76	Tannous
NFSC 289	1	75	Hamadeh / Zaccour
NFSC 291	3	25	Sidahmad
NFSC 292	2	15	Ghaddar
NFSC 293	3	56	Hwalla / Ghaddar
NFSC 294	2	54	Koleilat
NFSC 296	1	25	Coordinator: Batal
NFSC 299	2	39	Coordinator : Hwalla

NFSC 300 A	1	2	Hwalla
NFSC 300 A	1	1	Tannous
NFSC 300 A	1	1	Obeid
NFSC 300 A	1	1	Batal
NFSC 300 A	1	3	Ghaddar
NFSC 300 B	2	1	Hwalla
NFSC 300 B	2	1	Toufeili
NFSC 300 B	2	1	Obeid
NFSC 300 B	2	1	Ghaddar
NFSC 300 C	3	1	Hwalla
NFSC 300 C	3	1	Obeid
NFSC 306	3	8	Batal
NFSC 308	3	15	Hwalla / Ghaddar
NFSC 310	3	7	Toufeili
NFSC 315	3	4	Obeid
NFSC 351	3	8	Kassaify / Tannous
NFSC 395	1	6	Coordinator: Hwalla
TOTAL	68		

### Summer

Course	Credits	Enrollment	Instructor
NFSC 261	3	18	Toufeili
NFSC 265	3	13	Toufeili
NFSC 274	3	19	Obeid
NFSC 277	3	25	Kassaify
NFSC 280	0	31	Tannous
NFSC 296	1	0	Hwalla
NFSC 298	0	6	Hwalla
NFSC 299	2	4	Hwalla
NFSC 300 A	1	2	Staff
NFSC 300 B	2	0	Staff
NFSC 300 C	3	2	Staff
NFSC 395	1	1	Hwalla
NFSC 399	T	10	Staff
TOTAL	22		

### STUDENT APPLICATIONS TO NFSC DEPARTMENT

#### FALL 2004/2005

	Applications Received	Students Accepted	Students Registered
<b>UG-ND</b>	340 new	100* new	18 new
	41 transfer	27* transfer	14 transfer
<b>UG-FSM</b>	91 new	129* new	54 new
	13 transfer	7* transfer	7 transfer
<b>NUT-GRAD</b>	24	23	3
<b>FT-GRAD</b>	18	17	6

\*(as 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> etc choice)

**SPRING 2004/2005**

	<b>Applications Received</b>	<b>Students Accepted</b>	<b>Students Registered</b>
<b>UG-ND</b>	36 new	7* new	5 new
	23 transfer	12* transfer	8 transfer
<b>UG-FSM</b>	21 new	14* new	12 new
	22 transfer	7*transfer	3 transfer
<b>NUT-GRAD</b>	8	5	5
<b>FT-GRAD</b>	4	2	2

\*(as 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> etc choice)

**FALL 2005/2006**

	<b>Students Accepted</b>	<b>Students Registered</b>
<b>UG-ND</b>	116 new	Not available yet
	24 transfer	Not available yet
<b>UG-FSM</b>	115 new	Not available yet
	9 transfer	Not available yet
<b>NUT-GRAD</b>	43	Not available yet
<b>FT-GRAD</b>	38	Not available yet

**UNDERGRADUATE AND GRADUATE STUDENT ENROLLMENT IN NFSC DEPARTMENT**

**UG-ND**

	<b>Fall 2004/2005</b>	<b>Spring 2004/2005</b>	<b>Summer 2004/2005</b>
<b>NDI</b>	42	36	10
<b>NDII</b>	39	48	27
<b>NDIII</b>	57	57	20
<b>ND special</b>	7	8	6
<b>Total</b>	<b>145</b>	<b>149</b>	<b>63</b>

**UG-FSM**

	<b>Fall 2004/2005</b>	<b>Spring 2004/2005</b>	<b>Summer 2004/2005</b>
<b>FSMI</b>	81	75	28
<b>FSMII</b>	29	37	18
<b>FSMII</b>	10	17	22
<b>Total</b>	<b>120</b>	<b>129</b>	<b>68</b>

**Graduates**

	<b>Fall 2004/2005</b>	<b>Spring 2004/2005</b>	<b>Summer 2004/2005</b>
<b>Nut (Th)</b>	12	21	
<b>Nut (Non -Th)</b>	14	8	
<b>Nut ( Pros)</b>	0	0	
<b>Nut Total</b>	<b>26</b>	<b>29</b>	<b>11</b>
<b>FT (Th)</b>	7	8	
<b>FT (Non -Th)</b>	6	3	
<b>FT ( Pros)</b>	1	2	
<b>FT Total</b>	<b>14</b>	<b>13</b>	<b>5</b>
<b>Special</b>	1	0	
<b>Total</b>	<b>41</b>	<b>42</b>	<b>16</b>

## UNDERGRADUATE AND GRADUATE STUDENT GRADUATION FROM NFSC DEPARTMENT

### Undergraduate

	<b>2004/2005</b>
<b>ND</b>	63
<b>FSM</b>	8
<b>TOTAL</b>	<b>71</b>

### Graduate

	<b>2004/2005</b>
<b>Nutrition</b>	7
<b>Food Technology</b>	3
<b>TOTAL</b>	<b>10</b>

### M.S THESIS STUDENTS COMPLETED (WITH TITLE AND DATE)

- **Advisor: Dr. Hwalla**
  1. *Dalia Tannous Dit El Khoury* Effect of macronutrient composition of meals on postprandial ghrelin response in healthy male subjects. June 2005.
  2. *Michele Iskandar* Diet and physical activity as determinants of non-communicable disease risk factors in Lebanon. Oct. 2004.
  
- **Advisor: Dr. Toufeili**
  1. *Mohammad Najjar*: Development of a Hazard Analysis Critical Control Points (HACCP) Plan for Halawat El Jibn (A Lebanese Cheese Derived Pastry). September 2004.
  2. *Manal Cassab*: Determination of Shelf-life of Sesame Seed Oil using Hazard Analysis. February 2005.
  3. *Alain Bitar*: Determination of Sensory Thresholds of Selected Constituents of Thyme (*Thymus vulgaris* Linne) and their Efficacy as Antioxidants in Edible Oils. March 2005.
  4. *Dayana Abu Jaoudeh*. Proximate Composition and Mineral Content of some Regular and Reduced Fat White Cheeses, August 2005
  
- **Advisor: Dr. Batal**
  1. *Rita Moujaes*, Nutrition (2005). Dietary Habits and Nutritional Status of University Students in Lebanon.
  2. *Lara Kallas*, Nutrition (2005). Complementary Feeding in Greater Beirut: Patterns and Dietary Contribution

### M.S. STUDENTS IN NFSC DEPARTMENT

#### Thesis Students

	<b>Student</b>	<b>Major</b>	<b>Advisor</b>
1.	Nancy Helou	Nutrition	N. Hwalla
2.	Ariyo Movahedi	Nutrition	N. Hwalla
3.	Dalia Tannous	Nutrition	N. Hwalla
4.	Joyce Maalouf	Nutrition	N. Hwalla
5.	Jamal Noueiry	Nutrition	N. Hwalla
6.	Maya Bassil	Nutrition	O. Obeid
7.	Maya Marji	Nutrition	O. Obeid
8.	Maha Mrayati	Nutrition	O. Obeid

9.	Zeina Jamal	Nutrition	O. Obeid
10.	Lara Kallas	Nutrition	M. Batal
11.	Rita Mujaes	Nutrition	M. Batal
12.	Cynthia Farhat	Nutrition	M. Batal
13.	Riwa Kahhali	Nutrition	S. Ghaddar
14.	Mirey Karavetian	Nutrition	S. Ghaddar
15.	Maya Itani	Nutrition	N. Hwalla
16.	Nada Hasbini	Nutrition	N. Hwalla
17.	Dana Abu Reslan	Nutrition	N. Hwalla
18.	Manal Fakhani	Nutrition	O. Obeid
19.	Oussanna Nashlian	Nutrition	N. Hwalla
20.	Diana Abu Jawdeh	Food Technology	I. Toufeili
21.	Yasmine Haddad	Food Technology	I. Toufeili
22.	Carol Saadeh	Food Technology	I. Toufeili
23.	Sandra El Hage	Food Technology	I. Toufeili
24.	Amany Nasser Eddine	Food Technology	I. Toufeili
25.	Alain Bitar	Food Technology	I. Toufeili
26.	Manal Cassab	Food Technology	I. Toufeili
27.	Hussein Hassan	Food Technology	I. Toufeili
28.	Gaby Edde	Food Technology	R. Tannous
29.	Hamza Daroub	Food Technology	R. Tannous

### **Non Thesis Students**

**Advisor: Dr. Hwalla**

	<b>Student</b>	<b>Major</b>
1.	Rana Seif	Nutrition
2.	Dalia Barakat	Nutrition
3.	Rajwana Natafqi	Nutrition
4.	Suha Alyami	Nutrition
5.	Nadia Aftat	Nutrition
6.	Zeinab El Khansa	Nutrition
7.	Nancy Milan	Nutrition
8.	Carla Vartanian	Nutrition
9.	Manal Azzi	Nutrition
10.	Viken Aharounian	Nutrition
11.	Raya Nassrallah	Nutrition
12.	Suzan Haidar	Nutrition
13.	Zinab Maktabi	Nutrition
14.	Hiba Sarreiddine	Nutrition
15.	Danielle Tabet	Food Technology
16.	Diana Mubarak	Food Technology
17.	Rima Saba	Food Technology

### **Prospective Graduates**

**Advisor: Dr. Hwalla**

	<b>Student</b>	<b>Major</b>
<b>1.</b>	Samira Sidani	Food Technology

## GRADUATE ASSISTANTS IN NFSC DEPARTMENT

### Fall 2004/2005

	Graduate Assistants	Credits covered
1	Ariyo Movahed	9 cr.
2	Zeina Jamal	Thesis
3	Dayana Abou Jawdeh	Thesis
4	Yasmine Haddad	7 cr.
5	Manal El Fakhani	7 cr.
6	Maya Marji	6 cr.
7	Carol Saadeh	6 cr.
8	Manal Cassab	6 cr.
9	Maya Bassil	5 cr.
10	Nancy El Helou	5 cr.
11	Dalia Khoury	4 cr.

### Spring 2004/2005

	Graduate Assistants	Credits covered
1	Ariyo Movahedi	10
2	Carol Saadeh	9
3	Nancy El Helou	Thesis
4	Maya Marji	Thesis
5	Manal El Fakhani	7
6	Joyce Maalouf	6
7	Hussein Hassan	6
8	Jamal Noueiry	6
9	Hamza Daroub	6
10	Dana Abu Reslan	6
11	Nada Hasbini	6
12	Dalia Khoury	4
13	Yasmine Haddad	4
14	Dayana Abou Jawdeh	4
15	Maya Bassil	3

### Summer 2003/2004

	Graduate Assistants	Credits covered
1	Ariyo Movahed	6
3	Joyce Maalouf	6

## DIETETIC INTERNSHIP

The Dietetic interns at AUH for academic year 2004/2005 were:

1. Lamis Joumaa
2. Melanie Mattar
3. Hind Dakhil
4. Chaza Akik
5. Rola El Rassi
6. Nelda Nader

The students accepted for the dietetic program for the academic year 2005/2006:

1. Hala El khoury
2. Lama El Jizi
3. Maya Tabet
4. Krystel Ouaijan
5. Dania El Berjawi
6. Dana Obeid
7. Murreille Abu Samra
8. Lama Al Khuja

## NFSC DEPARTMENTAL ACTIONS

Nine Department meetings (October 21, November 4, November 18, December 23, March 4, May 4, July 12, August 21 and September 28) were held in the academic year 2004/2005 and the following actions were taken:

### Academic Program

#### A. Graduate Program

- **NFSC 314 and NFSC 315:** The NFSC faculty members recommended consolidating NFSC 314 (Advanced Nutrition: Mineral Elements, 3 credits) and NFSC 315 (Advanced Nutrition: Vitamins, 3 credits) into a 4 credit course entitled NFSC 314 Advanced Nutrition: Micronutrients. Change in the catalogue was introduced. Decision was reconsidered in September: NFSC 314 and NFSC 315 remain as 3 credit separate courses.
- **Graduate Nutrition Program:** The NFSC faculty members recommended the following changes to the Graduate Nutrition Program:
  - Required courses: Decrease the number of required courses for MS in Nutrition from four to three as follows: NFSC 311 “Advanced Nutrition: Macronutrients”, NFSC 314 “Advanced Nutrition: Mineral Elements” and NFSC 315 “Advanced Nutrition: Vitamins”.
  - Elective courses: Consider NFSC 306 “Community Nutrition: Research and Intervention”, NFSC 308 “Advanced Therapeutic Nutrition” and NFSC 312 “Sports Nutrition” as elective courses.
- **Nutrition and Food Technology Graduate Programs:** The NFSC faculty members identified NFSC required courses and elective courses required for the completion of MS in Nutrition and MS in Food Technology ( list enclosed)
- **NFSC 351:** The NFSC faculty members approved the introduction of a new graduate course entitled NFSC 351: Food Safety: Contaminants and Toxins, 3 credits. NFSC 351 is offered in Spring 2004/2005 and is a required course for Food Technology (non-thesis) students and an elective course for Food Technology (thesis) and Nutrition (thesis and non-thesis) students.
- **Graduate Statistics Course:** The NFSC faculty members recommended the introduction of EPDH 311 “Epidemiology and Biostatistics, 4 cr.” as an option for NFSC graduate students conducting a thesis with epidemiology component. The course would be considered as equivalent to the graduate statistics course currently offered i.e. AGR 301. Advisors shall advise their students whether to take EPDH 311 or AGR 301 depending on the student thesis research requirement
- **Prospective Graduates:** NFSC faculty members identified a list of courses required for students applying from majors other than nutrition and accepted as prospective graduates. These courses with their pre-requisites should be completed before taking graduate courses. ( list enclosed)

## **B. Undergraduate program**

- **ND Curriculum Changes:** NFSC faculty members recommended the following changes to ND curriculum:
  - Replacing the 5 credits of suggested electives with 5 credits of Humanities electives
  - Deleting BIOL 202 ( 4 credits) from ND curriculum : 1 credit will be used for Humanities electives and 3 credits for NFSC 292 ( Diet Therapy in Inborn Errors of Metabolism) which will be increased from 2 to 3 credits
  - Offering NFSC 285 “Nutrition in the Life Cycle” as 2 credits lecture and 1 credit lab instead of 3 credits lecture.
- **FSM Curriculum Changes:** NFSC faculty recommended the following changes to FSM curriculum:
  - Replacing Social Science course in FSM curriculum by NFSC 272 (Introduction to Food Service and Industries, 1.3, 2 credits) since the Food Science and Management program satisfies the 6 credits of Social Sciences Electives.
  - Offering NFSC 272 as 3 credits instead of 2 credits. An outline was prepared and approved
- **Second BS in Nutrition and Dietetics:** The NFSC faculty members identified NFSC courses required for the completion of second BS in MS in Nutrition and Dietetics.(list enclosed)
- **NFSC 291:** The issue of NFSC 291 “Elements of Food Engineering” was discussed due to the unavailability of a qualified Instructor to teach it. It was decided to offer the course and look in the mean time for part-time Food Engineer.
- **Calculation of Average for FSM students:** NFSC faculty members recommended the following courses in the calculation of the average of FSM student applying to graduate studies in the Department:
  - All NFSC courses listed in FSM curriculum
  - MKTG 210
  - MNGT 215
  - LWRS 212

## **C. Dietetic Internship Program:**

- Number of accepted dietetic interns at AUH was increased from 6 to 8 per year
- Verbal agreement has been reached a between AUB and Beirut Government Hospital to accept 6 students recommended by AUB as interns. Another similar agreement will also be signed with the Makased Hospital and St. Georges Hospital. Maya Khoury, Head of Dietetic Department in St. Georges Hospital, has verbally agreed to accept annually 12 AUB intern students.
- NFSC faculty members recommended the following changes to the Dietetic Internship Program in AUH:
  - Change the AUH Internship duration from 11 months to six months to include food service and clinical practice.
  - Add a community and research component to the internship program to be supervised by the NFSC Department for duration of 3 months. During this rotation, the students will register for a 12-credit tutorial course to meet the community emphasis competencies set by CADE.
  - Recruiting a designated director for the coordination internship program who has earned at least an M.Sc. degree, has an RD and is employed by AUB in the NFSC Department. A 50 % instructor was recommended for the for mentioned position and if need be, depending on the number of the interns, could be elevated to a full time instructor.

**Course Offerings:** Changes were made to NFSC course offerings for the academic year 2005/2006 in view of new faculty members ( Dr. Olabi and Ms. Chamieh) joining the Department, and Dr. Batal's research leave during Fall 2005/2006.

**Catalogue Changes:** Modifications were recommended by NFSC Faculty members in the university catalogue sections related to the Department.

**NFSC Undergraduate Brochure:** The NFSC Faculty members made some changes to NFSC undergraduate brochure in view if new faculty members joining the Department.

**Nutrition Instructor:** NFSC faculty members recommended the appointment of Ms. Marie Claire Chamieh as a full time Nutrition instructor to fill out the position of Ms. Maria Koleilat

**Full-time Research Assistant:** NFSC faculty members recommended the appointment of a full time RA with a Microbiology background who is essentially required to conduct NFSC 278 laboratory, assist in NFSC 370 and help tutorial and masters students who are conducting research and work in this particular field as well as in the food safety and quality area.

**FAFS Mission and Vision:** NFSC faculty members recommended introducing modification to the existing FAFS mission and vision to reflect the activities of the two majors in the Department namely: Nutrition and Food Science.

**Nutrition and Food Science Journals:** It was noted that the number journals in Nutrition and Food Science available, at present, in the library is minimal. Recommendation for additional journals was suggested. A list of journals to be added to the Science Library was developed.

**Academic Integrity:** The chairperson circulated to NFSC faculty members the statement on Academic Integrity provided to the FAFS Departments by the Dean. It was agreed to include it in NFSC course syllabi.

**Major Equipment:** The NFSC Department submitted two lists of equipment needed by the Department to be included in AUB Budget and ASHA Budget respectively for 2005/2006.

**URB Visiting Professor:** The nomination by the department of Dr. Katherine Gray-Donald (Associate Professor of Human Nutrition, School of Dietetics and Human Nutrition at McGill University) as a URB Visiting Scholar in the academic year 2004/2005 was approved by the University Research Board. Dr. Gray-Donald visited the Department on June 8-22, met with faculty and students and presented lectures on recent issues of Nutrition.

## **EQUIPMENT**

A list of equipment received and ordered in the academic year 2004/2005 is enclosed.

## **ISSUES PURSUED BY THE DEPARTMENT**

- Construction is in progress in the Food Processing Pilot Plant
- The Department applied to become the WHO Collaborative Center for Nutrition. Response has not been received yet.
- Registration of dietetics as a profession in Lebanon has been approved by the Lebanese Government. The Department is pursuing formation of a syndicate.
- Offering R.D. from Lebanon is in progress.
- The Department is aspiring to have one additional faculty member specialized in Nutrition

## DEPARTMENT OF PLANT SCIENCES

2005-2006

Adib Saad, Chairperson

### INTRODUCTION

The usual undergraduate and graduate teaching programs by faculty members in the department continued as planned, however, a few elective courses were not offered due to low student enrolment in the general agriculture program. Research activities progressed very well and research productivity increased to compensate for the lower teaching load of some faculty members. Faculty members were very active in their participation in scholarly conferences and scientific meetings.

Information on departmental personnel, teaching, research and publications, and professional activities of faculty members during academic year 2005-2006 is stated briefly on the following pages.

#### **I- PERSONNEL**

##### *Faculty*

Abou-Fakhr Hammad, Efat, Ph-D, Associate Professor of Entomology  
Abou Jawdeh, Yusuf, Ph-D, Professor of Plant Pathology  
Haidar, Mustapha, Ph-D, Associate Professor of Weed Sciences  
Husain, Syed Ali, Ph-D, Assistant Professor of Landscape Design  
Kawar, Nasri, Ph-D, Professor of Pesticides (Part-time)  
Makhzoumi, Jala, Ph-D, Associate Professor of Landscape  
Saad, Adib, Ph-D, Professor of Plant Pathology  
Talhok, Salma, Ph-D, Professor of Horticulture  
Weltzien, Julie, M.A., Assistant Professor of Landscape Design  
Yau, S.K., Ph-D, Professor of Plant Breeding

##### *Senior Research Assistants*

Husseini, Salma  
Sobh, Hana, M.Sc., full-time\*

##### *Research Assistants*

Bou Chedid, Rana B.Sc., full-time  
Bou Chedid, Shadi B.Sc., part-time\*  
Debian, Nahed, M.Sc., full-time  
Eid, Sahar, M.Sc, full-time\*  
Gharib, Shadi, B.Sc., part-time\*  
Hajjar, Shadi, M.Sc., full-time\*  
Hanna, Lucia, M.Sc., full-time  
Hnoud, Leila, B.S. , part-time\*  
Kanaan, Dana, B.S., part-time\*

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\* On grants

### Graduate Assistants

Abbas, Hala  
Abou Haidar, Charbel  
Atamian, Hagop  
Bou Azza, Karma  
Chnais, Elias  
Dagher, Rachel  
Dandache, Layal  
Gerges, Elvis  
Ghadban, Elias  
Hamdan, Khaled

### Non-Academic Personnel

Abu Samra, Elias                      Greenhouse Technician  
Kayyal, Hatem                         Agronomy Foreman  
Yazbek, Ali                              Assistant Agronomy Foreman

## **II. TEACHING ACTIVITIES**

### ***1. Courses and enrollment***

	No. of students	Core courses	Electives	Others
<b><u>Fall</u></b>				
Undergraduate	158 (+82 LS)	10	3	1 tutorial
Graduate	10	2	0	2 tutorials 1 Seminar Thesis
<b><u>Spring</u></b>				
Undergraduate	132 (+77 LS)	11	5	
Graduate	13	3	0	2 tutorials 1 seminar Thesis
<b><u>Summer</u></b>				
Undergraduate	62 (+53 LS)	1		
Graduate	9			1 tutorial Thesis

## ***2. No. of graduate students enrolled and graduated***

	<b><u>No. of students</u></b>
<b><u>Fall</u></b>	
Enrolled	3 (Plant Science), 7 (Plant Protection)
Graduated	1 (Plant Protection)
<b><u>Spring</u></b>	
Enrolled	4 (Plant Science), 9 (Plant Protection)
Graduated	1 (Plant Science)
<b><u>Summer</u></b>	
Enrolled	2 (Plant Science), 7 (Plant Protection)

## **III. RESEARCH AND PUBLICATIONS**

### ***1. Research Projects with Main Investigator(s)***

- Breeding of pickling cucumber for resistance to *Cucurbit yellow stunting disorder virus*. Dr. **Y. Abou Jawdeh**
- Development of tomatoes with combined resistance to *Tomato yellow leaf curl virus (TYLCV)* using both virus-derived resistance and molecular marker assisted breeding. Dr. **Y. Abou Jawdeh**
- Perspectives for Biological control -viral and fungal parasites of Lepidoptera pests in Lebanon. Dr. **Y. Abou Jawdeh**
- Employment creation and income generation through the development of micro and small agro-industries in South Lebanon, Phase II Dr. **M. Haidar** and Mr. Rami Ollaik.
- Productivity improvement of the domesticated honeybee race. Dr. **M. Haidar** and Mr. Rami Ollaik.
- Effects of rumen digestion by sheep on germinability and viability of common weed seeds of Lebanon. Dr. **M. Haidar** and Dr. F. Sleiman
- Educational Garden, Lebanon. Dr. **S. Husain**
- Integrated Management of Cedar Forests in Lebanon in Cooperation with Other Mediterranean Countries. Dr. **N. Kawar**.
- Disease forecasting for the management of epidemic diseases on apple and potato in Lebanon. Dr. **A. T. Saad**.
- The Moments of Deviation, the potentials of Gap Spaces in Hamra. Ms. **Julie Weltzien**.
- Preliminary evaluation of conservation tillage in Lebanon - Phase I. Dr. **S. K. Yau**.

## 2. Articles Published

- Abdo, C., **Nemer, N.**, Nemer, G., Abou Jawdah, Y, and **Kawar, N.** Isolation of Beauveria species from Lebanon and evaluation of its efficacy against the cedar web-spinning sawfly, *Cephalcia tannourinensis*. BioControl (Accepted, 2006).
- Abou-Fakhr Hammad, E.** and H. McAuslane. 2006. Effect of *Melia azedarach* L. Extract on *Bemisia argentifolii* (Homoptera: Aleyrodidae) and its Biocontrol Agent *Eretmocerus rui* (Hymenoptera: Aphelinidae). Environmental Entomology Vol. 35, No. 3 (June): 740-745.
- Abou-Jawdah, Y.**, El Mohtar, C., Atamian, H., and. Sobh, H. 2006. First report of *Tomato chlorosis virus* in Lebanon. Plant Disease 90: 378
- Abou-Jawdah, Y.**, El Mohtar, C., and. Sobh, H. 2006. First Report of *Tomato spotted wilt virus* on tomatoes in Lebanon. Plant Disease 90: 376
- Eid, S., **Abou-Jawdah, Y.**, El-Mohtar, S., Sobh, H. and Havey, M. 2006. Tolerance in Cucumber to Cucurbit yellow stunting disorder virus. Plant disease 90: 645-649.
- Fahed S.C. and **Saad A.T.** 2006. Management of cucumber downy mildew in organic agriculture. Fungicide and Nematocide Tests 61: 151
- Haidar M. A.** and M.M. Sidahmed. 2006. Elemental sulfur and chicken manure for the control of branched broomrape (*Orobanche ramosa*). Crop Protection 25: 47-51.
- Nemer, N., Kawar, N.S.** Kfoury, L., and Frerot, B. Evidence of sexual attraction by pheromones in the cedar web-spinning sawfly. Canadian Entomologist (Accepted 2007)
- Temsah, M, Hanna L. and **Saad A. T.** 2006. Anatomical observations of *Pseudomonas savastanoi* on *Rhamnus alatenus*. Forest Pathology (in Press).
- Yau, S.K.** 2005. Optimal sowing time and seeding rate for winter-sown, rainfed chickpea in a cool Mediterranean area. Australian Journal of Agricultural Research 56: 1227-1233.
- Yau, S.K.**, M. Nimah and I. Touffeili. 2006. Quality and yield of saffron strains at contrasting Mediterranean sites. Experimental Agriculture (in press).
- Yau, S.K.** and Nassar, A. 2005. Lebanese farmers growing safflower again. Sesame and Safflower Newsletter 20: 81-83.
- Yau, S.K.**, Pridham, J., and Entz, M. (2006) Root weight differences between Canadian wheat varieties under organic farming management. Annual Wheat Newsletter 52: 79-80.

## 3. Abstracts

- Abou-Jawdah Y.**, Eid S., Atamian H., Sobh H, and Havey M. 2006. Sensitivity of serological assays in detection of *cucurbit yellow stunting disorder virus*. Proceedings of the 12<sup>th</sup> Mediterranean Phytopathological Congress, Rhodes Island, Greece 10-15 June 2006. Page 114.
- Eid, S., **Abou-Jawdah, Y.**, El-Mohtar, C., Sobh, H., and Havey, M. 2006. Screening cucumber accessions for resistance to *Cucurbit yellow stunting disorder virus*. Proceedings of the 12<sup>th</sup> Mediterranean Phytopathological Congress, Rhodes

Island, Greece 10-15 June 2006. Page 115.

El-Mohtar S., Atamian H., Dagher R., and **Abou-Jawdah Y.** 2005. A PCR- based method for screening tomato lines for resistance to race2 of *Fusarium oxysporum* f. sp. *lycopersici*. Proceeding of the XV meeting of the Eucarpia Tomato Working Group, Bari, Italy, September 20-23, 2005.

El-Mohtar C. A. , **Abou-Jawdah Y. A.**, Atamian, H. S., Salus M. S. and Maxwell D. P. 2006. A PCR method to detect tomato genotypes with the I-2 gene for resistance to *Fusarium oxysporum* f. sp. *lycopersici* race 2. *Phytopathology* 96:S32

Fahed, S.C. and **Saad A.T.** 2006. Management of cucumber downy mildew in organic agriculture. *Phytopathology*. 96: S34

Farajalla, N., **Yau, S.K.**, and Mhanna, M. 2006. Rainfall and temperature effects on rainfed barley yield under different rotations in central Bekaa, Lebanon. In Proceedings of the IX Congress of the European Society of Agronomy, September 4-7, 2006, Warsaw, Poland.

**Haidar M.A.**, Sidahmed M.M. and Darwish R. 2006. *Orobanche ramosa* management in potato with sub-lethal doses of glyphosate. Proceedings 46th Weed Science Society of American, New York, USA, Abstract (43).

**Nemer, N.**, Abdo, C., Nemer, G., Abou Jawdah, Y, and **Kawar, N.** 2006, Identification moléculaire de l'espèce *Beauveria* au Liban et evaluation de son efficacité contre la tenthrède du cèdre, *Cephalcia tannourinensis* Chevin. VI ème Conférence Internationale Francophone d'Entomologie, July 2-6, 2006, Rabat, Morocco. Page 81.

Nemer, N., Kawar, N., and Frerot, B. 2006. Evidence of a sex pheromone in the cedar web-spinning sawfly. VIIIth European congress of Entomology, September 17-22, 2006, Izmir, Turkey. Page 73.

Qadir, M., Noble, A.D., **Yau, S.K.**, and Murtaza, G. 2006. Crop-based management opportunities for sodium- and boron-affected soils. In Proceedings of the 18th World Congress of Soil Science, July 10-14, 2006, Philadelphia, USA.

**Yau, S.K.** 2006. Comparison of different tillage methods on barley and chickpea performance. In Proceedings of the IX Congress of the European Society of Agronomy, September 4-7, 2006, Warsaw, Poland

**Yau, S.K.** and Nimah, M.N. 2005. Potential of safflower to mitigate nitrate leaching under irrigation. In Abstracts (CD format) of the International Annual Meeting of the American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America, November 6-10, 2005, Salt Lake City, USA.

#### **4. Master's Theses**

1. Atallah, Shadi. 2006. Production, postharvest and economic potentials of *Origanum syriacum* as a new crop in Lebanon. Dr. S. Talhouk
2. El Rassy, Inaam. 2006. Speciation and vegetative compatibility groups of *verticillium* in Lebanon. Advisor: Dr. A. T. Saad.

3. Modad, Nadine. 2006. Survey and identification of wild mushrooms in Lebanon. Dr. A.T. Saad.

#### **IV. PROFESSIONAL ACTIVITIES AND SERVICES**

##### **1. *Scientific Meetings and Conferences***

Dr. Abou Jawdeh attended the Twelfth Mediterranean Phytopathological Congress, Rhodes Island, Greece. June, 10-15 2006.

Dr. Haidar participated in the 46th Annual Meeting of the Weed Science Society of America, and presented a paper entitled "Orobanche ramosa management in potato with sub-lethal doses of glyphosate", held in New York, USA, February 13-16, 2006

Dr. Haidar was invited by FAO to participate in the final meeting of TCP and presented a talk entitled "Orobanche and its management in Lebanon", held in Cairo, June 19-22, 2006.

Dr. A. Hussain participated in a conference entitled: "Shifting Ground: Landscape Architecture in the Age of the New Normal", organized by the Canadian Society of Landscape Architects/ Council of Educators in Landscape Architecture (CSLA/CELA), and presented an abstract entitled: "Landscape Teaching in Lebanon: Global Issues Local Interpretations", held in Vancouver, Canada, June 14-17, 2006

Dr Makhzoumi was invited to attend and give a presentation entitled: "Reclaiming Beirut nature vestiges: holistic model for nature conservation in Mediterranean Cities" at the ICS-UNIDO Protected area management in Mediterranean coastal areas: the importance of wildlife refugia and corridors within an urban and industrial landscape, held in Tunis, 11-13 September 2006.

Dr. S. Talhouk participated in the meeting of the Plant Conservation Committee of the Species Survival Commission of the World Conservation Union (IUCN) held at the Fairchild Tropical Garden, Miami, USA, October 10 – 12, 2005.

Dr. S. Talhouk participated and coordinated a meeting with UNISANTIS, Dubai, UAE, January 16-17, 2006

Dr. S. K. Yau participated in the 2005 ASA –CSSA-SSSA International Annual Meeting at Salt Lake City, Utah USA. November 6-10, 2005

##### **2. *Paid Research Leaves***

Dr. Jala Makzoumi spent the Fall semester 05-06 (Oct 05 - Feb 06) at the Royal Botanical Gardens, Kew in the United Kingdom, as a Paid Research Leave.

##### **3. *Workshops***

Ms. Julie Weltzien participated in an international and interdisciplinary workshop organized by UNESCO, the University of Montreal and the Lebanese University, held in Saida, Lebanon November 17 - 26, 2005.

#### 4. *Miscellaneous Services*

Dr. Y. Abou Jawdeh participated in over 8 farmer workshops/presentation on IPM on specific crops.

Dr. M. Haidar participated in lecturing and Field Demonstration for Training 17 Farmers on “Origanum production and management” and “Origanum pest management” in Debel, South Lebanon. Sponsored by ESCWA

Dr. M. Haidar prepared two training materials (in Arabic) on Oregano production and management, and he also prepared pamphlets on integrated weed management in nursery and in roses.

Dr. J. Makhzoumi lectured on “Public Space” at the Institute of Urbanism and landscape at the Oslo School of Architecture and design, April 18-20, 2006.

Dr. A. T. Saad lectured on “Fungal and bacterial diseases” as part of a graduate course entitled “Integrated Pest Management of Mediterranean Fruit Tree Crops” at the International Center for Advanced Mediterranean Agronomic studies (ICAMAS) in Italy, April 11-14, 2006.

Dr. A. T. Saad participated in two farmer workshops and lectured on Integrated Health Management of strawberries in Lebanon.

Dr. A. T. Saad served on the examining committee of a graduating student at Universite Saint-Esprit de Kaslik, June 2006.

Ms. J. Weltzien, attended design juries at the University of Montreal, April 16-23, 2006.

Dr. Yau conducted a field workshop on safflower and its harvesting to a selected group of 12 farmers on June 17 at Aytaroun, South Lebanon

Dr. Yau arranged the display and sale of saffron in the Garden Show with an NGO called ADR. Proceeds from the sale were passed to AREC

Dr. Yau reviewed a revised manuscript entitled ‘Approaches to rationalizing selection of test environments for on-farm lentil variety trials in Mediterranean rainfed cropping system’ for the Australian Journal of Agric. Research.

# AGRICULTURAL RESEARCH AND EDUCATION CENTER

2005-2006

**Mohamad T. Farran, Director**

## **Teaching And Research**

- Provided assistance to faculty members currently engaged in research and teaching at AREC, as requested.
- AGRL III and LDMG III students arrived at AREC on March 5, 2006 to complete the spring semester. The summer session for AGRL III students started as scheduled but was interrupted because of war. It was resumed on September, 24 2006.
- Vegetable variety trials, supported by UNIFERT s.a.l. started and ended as scheduled.

## **Production**

- Performed farming operations according to crop conditions and needs.
- Carried out routine operations in the Animal Division according to established management practices.
- Provided surplus produce and processed dairy products to AREC Cafeteria, AUB Pilot Plant, and AUH Dietary Department.
- Provided surplus fresh cow milk to KHOURY DAIRY owned by Mr. Abdallah Houry.
- Prepared seedbeds for winter crops 2006-2007.

## **Completed Projects:**

1. Installed a solar hot water system for AMD and Cafeteria. (Dec.6,2005)
2. Renovated the mechanical room of AMD and Cafeteria boiler. (Dec.6,2005)

## **New AREC Staff ( transferred from within AUB to replace retired employees)**

- Messers Ghosn, Hisham and Hajj-Hassan, Ali. Gateman/Watchman Nov. 15,2005.
- Mr. Nasser, Haidar Janitor Dec. 1, 2005.

## **Activities**

- AREC students held the Aggie Olympics on May 6, 2006. Present were Dean Daghir and FAFS faculty and staff members with their families.
- FAFS/UNIFERT Vegetable Trial Field Day. August 23, 2006.
- Sweet Corn Day. Was cancelled due to war.

## **Visitors**

- Dean Daghir, several Faculty , and alumni visited AREC on different dates.
- Miss Elaine Lisbeth from Earth University attended a training program at AREC.
- Lebanese Scouts Association and students from various schools.
- Dr. Tannous and NFSC Students visited AREC Creamery on April 26,2006.
- AUB Information and Publication office staff on May 26, 2006.
- Med Net Administrators ( National Health Insurance Policy) on Sept. 21,2006.
- Future T.V. videotaped AREC facilities on April 12,2006.

- FAFS Deanship candidates: Drs. I. Saab, N. Hawallah, R. Zureik and j. Rayan.

### **Seminars and Workshops**

- Seminar-National training Unit E.S.D.U.(March 8,2006)
- Forage Production Workshops to Lebanese farmers(Oct.5 to 6 and 28,2005)
- Workshop on “World Nutrition Week” under the patronage and presence of H.E. the Minister of Agriculture. AREC Director and FAFS faculty members attended and participated in this event.(Nov.11,2005).
- FAO Workshop on Training Veterinarians on Prevention and Early Detection of High Pathogenic Avian Influenza.(May 2, 2006).
- Action for Sustainable Agro Industry in Lebanon (ASAIL) held four 2- day workshops in June and July 2006 on Dairy Technology and Cheese making.
- Training session on Wild Edible Plants b AUB Nutrition Dept.(March 24,2006).

### **Miscellaneous**

- Sold culled animals at different dates.
- Received 3000 broiler day old chicks from Tanmia Co. as donation, on Nov.3,2006.
- Received a new Chevrolet Car (Plate # B238102).
- Received a second hand Nissan Pick-Up from AUB (Plate # M231775).
- Dean Dagher and AREC Director held a Service Award party for employees and retirees on July 5, 2006.
- Five employees and Dr.A.Jammal, part-time AREC family doctor, retired at different dates.
- Installed two AC units in the clinic and LDMG studio.
- Installed Automatic Electrical projector screens in 2 class rooms.

# INTER-FACULTY ENVIRONMENTAL SCIENCES PROGRAM

## Ecosystem Management

2005-2006

R. Zurayk - Coordinator

The present annual report covers the academic year 2005-2006

### I. Courses offered and students enrollment

A total of three courses were taught, covering some aspects of ECOM. A total of **ten** students were enrolled during 2005-2006 in Ecosystem Management (ECOM). Among these students, **one** is newly enrolled; the others were continuing. **Three** students graduated this year.

<u>Course Code</u>	<u>Course description</u>	<u>Semester</u>	<u>Faculty Members</u>
ENSC 630	Natural Resources Management	Spring 04-05	Dr. R. Zurayk
ENSC 631	Agricultural Pollution and Control	Spring 04-05	Dr. N. Kawar (Coordinator), Dr. I. Bashour
ENSC 690	Seminar in Environmental Sciences	Fall 04-05	Dr. R. Zurayk & Dr. M. El Fadel

### II. Meetings, Workshops and Academic activities

- a- First Global & Regional Development Workshop of GEO-4 that was held on Sep. 12-15, 2005, in Bangkok, Thailand
- b- Second Production & Review Meeting Global & Regional Development Workshop of GEO-4 that was held on Dec. 4-6, 2005, in Manama-Kingdom of Bahrain
- c- Regional Consultation on Linking Farmers to Markets: Lessons Learned & Successful Practices where I presented the case study proposal entitled: Business for the poor: Healthy Basket, a social responsible company trading in organic produce in Lebanon & the Middle East. The workshop was held on Jan. 28- Feb. 2, 2006, in Cairo, Egypt
- d- GEO-4 Chapter 1 Lead Authors meeting that was held from Feb. 13-15, 06 in Bilthoven, the Netherlands
- e- COPEH-MENA meeting that was held in Mbodiene, Senegal, from March 2-3, 2006 to follow up on the Ecohealth project "Community of Practice in Ecohealth in Middle East & North Africa" implemented by IGESP, and on the community of practice in ecosystem health of which AUB is a partner represented by myself

### III. Other activities

The process of registering the ECOM major in the New York State Department of Education is under processing and waiting for the report to be sent that the program evaluator.

**SECTION C**  
**REPORTS OF FAFS STANDING COMMITTEES**

## **THE ADMINISTRATIVE COMMITTEE**

**2005-2006**

The Administrative Committee, chaired by Dean N. Dagher, and including all FAFS chairpersons: Drs. I. Bashour, Land & Water Resources Department; S. Hamadeh, Animal Science Department; N. Hwalla, Nutrition and Food Science Department and A. Saad, Plant Sciences Department.

The Committee held four meetings during the academic year 2005-2006.

During the year, routine business was handled by the committee which included appointments of departmental graduate assistants; budget issues especially major equipment and various matters related to AREC budget; faculty evaluations, FAFS Strategic Plan; Summer contracts for faculty members who taught during Summer 2006. A meeting was held on August 23, 2006 to prepare for the resumption of the Summer Session after the July 2006 war.

**Prepared by**

Wafa Khoury  
Secretary

## **THE ADVISORY COMMITTEE**

**2005-2006**

Membership of the Committee:

- Dr. N. Dagher (Chairperson)
- Drs. E. Barbour, S. Hamadeh, N. Hawalla, M. Sidahmed S., Talhouk, and R. Zurayk

Drs. Hamadeh (From ANSC Department) and Sidahmed (from LWRS Department) joined the Committee as new members. Dr. Sidahmed became the new secretary. During the academic year, the Committee held 10 meetings and voted on 74 motions. Minutes of the meetings were copied to the Provost and the President of AUB. The meeting on promotion of faculty members was attended by a DPM (Due Process Monitor) and three observers from outside the Faculty. Important issues discussed include the strategic planning of FAFS, and the need for a more rigorous evaluation of teaching performance for renewal of contracts.

Prepared by:

Moatasim Sidahmed, PhD

## THE ACADEMIC & CURRICULUM COMMITTEE

2005-2006

The members of the Academic and Curriculum Committee for the year 2005-2006 were: Dean Dagher (Chairperson), Drs. Bashour, Farajalla, Haidar (Undergraduate AG/Coordinator), Hamadeh, Hwalla, Obeid (Undergraduate ND/Coordinator), Saad, Tannous (Undergraduate FSM/Coordinator), Weltzien, SRC and Registrar's representatives.

The Committee met 10 times during the period of October 1, 2005 until September 30, 2006, and voted on 168 items. The Committee members discussed course offerings, recommending students for graduation, to graduate students with distinction and high distinction, transfer of credits, transfer students from one major to the other, student probation, AREC program, and several others. The highlights of activities are listed below:

### A. Student's Status

The Committee reviewed students' status at the end of each semester and voted on the following:

1. 6 students from all undergraduate programs were sent severe warnings for spending more than two semesters at FAFS because of their intention to transfer to another Faculty.
2. 16 students from all undergraduate programs were continued on probation.
3. 6 student from all undergraduate program were dismissed
4. 1 student from the Agriculture program was removed from probation.
5. 174 students from all undergraduate programs were placed on the Dean's Honor List.

### B. AREC Program

14 students were eligible to go to AREC. 7 from Agriculture and 7 from Landscape.

### C. Activation of a PLSC Course

The Committee approved the recommendation from the Plant Science Department to reactivate the revised course syllabus of PLSC 287, Crop Production in Dry Regions (3 cr.) an elective in Agriculture.

### D. Biology 258 as an Elective for Agriculture Students

The Committee approved the proposal of the Biology to offer Introduction to Aquaculture (Biol 258, 3 cr.) as an FAFS elective for Agriculture, a detailed syllabus was submitted.

### E. Advising

The subject of advising was discussed by the committee. Few members indicated that students would send emails or call in order to take their alternate pin instead of visiting their advisors for proper advising. Some members suggested that students should sign a yearly program of the courses that he/she are to take during the first and second semesters. Advisors may monitor the registered courses of their advisees through the AUB SIS to make sure that they followed the program otherwise students will be penalized.

It was also suggested that the banner should be modified by not allowing students to register

for less than 12 credits; only graduating students can register for less than 12 credits.

#### **F. Modification in Nutrition Schedule and Curriculum**

The Committee approved the changes made in the Nutrition schedule and curriculum to be as follows:

1. Redistribution of NFSC courses in fall and spring semesters.
2. Splitting NFSC 294 lab into two 1 credit lab courses. NFSC 295 (1 cr.) as the lab of NFSC 293 (3 cr.) and NFSC 294 (1 cr.) as the lab for NFSC 292 (3 cr.).

#### **G. Modification in Food Science and Management Curriculum**

Approved the changes in Food Science and Management curriculum to be as follows:

1. Decreasing the number of credits of NFSC 272 from 3 credits (2 cr. lecture, 1 cr. lab) to 2 credits (1 cr. lecture, 1 cr. lab).
2. Increase the number of credits of NFSC 280 from 0 credits to 1 credit.

#### **F. Recommendation for Graduation**

The Committee recommended to the Faculty 12 students for the Degree of B.Sc in Agriculture and Diploma of Ingenieur Agricole, 8 students for the Degree of B.Sc. in Landscape Design and Eco-Management and Diploma of Ingenieur Agricole, 25 students for the Degree of B.Sc. in Food Science and Management and 50 students for the Degree of B.Sc in Nutrition and Dietetics.

**Prepared by  
Rabia Koubayssi**

## THE ADMISSIONS COMMITTEE

2005-2006

The elected members of the Admissions Committee during the period of 2005-2006 were the following: Dr. Nuhad Dagher (Chairman), Drs. Malek Batal, Sana Ghaddar, Zeina Kassaify and Musa Nimah. This Committee met 3 times and mostly in the presence of the Admission Representative, Registrar Representative and Miss Tharwat Haddad (Secretary). The decisions regarding admissions of transfer students to undergraduate programs in FAFS, and the decisions related to admissions rules and regulations were voted upon among the members of the committee (Table 1). The activities of this committee could be summarized into the following:

Table 1. No. of Applicants accepted as transfer students to the four different majors in FAFS

Fall 2005-2006	Transfer	
	Applications Received	Students Accepted
UG NUTR	34	28
UG AGRI	24	16
UG LDEM	21	16
UG FSMT	32	25

### A. Students Admissions:

The applications and the records of transfer undergraduate applicants to FAFS were studied individually by the Admissions Committee. This included the cumulative average of previous years. After a thorough study of the performance of each applicant, a vote was taken by the committee members to recommend to the chairman of the committee the admission or denial of the applicant.

The transfer applicants coming from outside AUB were recommended to the Unified Admissions Committee to be accepted as transfer students to the Faculty of Agricultural and Food Sciences for the fall 2006-2007:

### B. Other Business:

The Dean informed the Committee that the University Unified Admissions Committee is accepting applicants according to the number of students required by each department. The Agriculture, Public Health and some Humanities majors require lowest composite score as compared to other majors. The Dean suggested raising the composite scores for Agriculture (475), Food Science & Management (500) and Landscape Design & Eco-Management (500) especially as enrollment figures were high this year. The Dean also suggested to solicit the advice of the concerned departments to raise the transfer students' cumulative average to 78 for Nutrition and Dietetics, 72 for Food Science & Management, and 75 for Landscape Design & Eco-Management.

Prepared by  
Tharwat Haddad

## THE GRADUATE STUDIES COMMITTEE

2005-2006

The members of the Graduate Studies Committee for the year 2005-06 were: Dean Dagher (Chairman), Drs. Abou Jawdah, Batal, Kassaify, Nimah, Obeid, Sidahmed (Graduate Coordinator), Registrar, Director of Admissions, Faculty representative on the board of Graduate Studies (BGS). Dr. Obeid is also the representative on the BGS.

The Committee held eight meetings during 2005-2006 and voted on 101 items. Actions taken during these meetings included the following:

1. Accepted 89 applicants for the first semester, 2005-2006. Fourteen applicants were not accepted. Of the 89 accepted applicants 25 registered for the first semester. Accepted 20 applicants for the second semester, 2005-2006 and 9 registered. Six applicants were not accepted.
2. Approved the program of study and thesis titles of 30 students.
3. Seven students were removed from probation effective July 2006.
4. Acted on a number of petitions submitted by students.
5. Recommended awarding the MS degree to 5 students effective October 2005, 7 students effective February 2006 and 17 students effective July 2006 in the various majors.
6. Two new graduate courses were approved by the Committee namely, NFSC 305 Sensory Evaluation of Food (3 cr.) and ENSC 633 Ecological Landscape Design and Planning (3 cr.).
7. The Committee discussed the practice of thesis and suggested the following points:
  - a. Some members suggested that workload should be established upon completion of thesis. Others suggested that faculty members should not be credited for thesis work because they are actually being helped by the student in their research.
  - b. The thesis credits should be included in the transcript.
  - c. The credits for the thesis should not be increased to 9, it should remain 6.
  - d. Comprehensive and thesis examinations are done orally. It was suggested that the comprehensive exam should be written since students can elaborate more. The thesis seminar is presented for all to attend, and the defense is done orally with only the committee members.
8. The Committee suggested that the departments provide a list of core courses in the major, FAFS requirements and suggested electives which students can follow for both thesis and non thesis programme.
9. The Committee discussed the endowment scholarship fund that the Faculty has which will enable students to apply for such a scholarship. The following procedures and conditions for eligibility were suggested:

### Conditions to be eligible:

- a. To be eligible, applicants should not be on probation and/or prospective student.
- b. Applicants should not have any funding from insider or outside (i.e. no graduate assistantship, or research assistant).
- c. Applicants should be new graduating students preferably from outside AUB.
- d. Scholarship will cover 60% of the tuition.

### Procedures:

- a. Candidate applies for finance.
- b. GSC reviews the application.

- c. GSC will make the decisions along with GA applicants.
10. Discussion was held concerning the Ph.D. programme, and it was decided that FAFS has to come up with such a programme as six departments from other faculties have submitted their Ph.D. programme and they were being reviewed by the BGS.

**Prepared by  
Rabia Koubayssi**

## THE RESEARCH COMMITTEE

2005-2006

### Membership of the Committee

Dr. Salma Talhouk (Chairman)  
Dr. Isam Bashour  
Dr. Nahla Hwalla  
Dr. Omar Obeid

### Annual Report

Nineteen research proposals submitted to the University Research Board (URB).

The research proposals submitted for funding by the URB were evaluated by the Committee members and external referees. The proposals were ranked by calculating mean values of scores allotted by external reviewers and the Committee members. Reviewers' reports were communicated to applicants to modify their proposals accordingly.

The evaluation prepared by the committee based on the reviewers evaluation of the proposal, the committee's evaluation of the proposal, productivity of the faculty related to previous URB funding, professorial rank of the faculty, and whether the proposal is new or a renewal project, were ranked in the following order:

Principle Investigator	Co-Investigator	Title
<b>Assistant Professor</b>		
Olabi, Ammar	Toufeili, Imad	Designing an Arabic Version of the 9-point Hedonic for Use in Acceptability
Ghaddar, Sana		Effect of Omega-3 fatty acid & protein supplementation on malnutrition & inflammation in Hemodialysis patients
Kassaify, Zeina	Mouneimneh, Youssef; Toufeili, Imad	Determination of Aflatoxin M1 levels in Some Dairy Production Consumed in Lebanon; Comparison between Seasons and Sources of Milk Products.
Husain, S.Ali		Reading architectural ornament in Islamic Indian mosques of the Deccan Sultanates
Farajalla, Nadim	Pinto, Karen	Tracing Pre-Modern Hydraulic Structures in Lebanon
Batal, Malek		Wild Edible Plant Consumption and Degenerative Eye Disease in a Rural Lebanese Elderly Population: A Case-Control Study
Weltzien, Julie		Space, Nature and the Child: A participatory project in an educational institution in Lebanon
<b>Associate Professor</b>		
Abou-Fakhr Hammad, Efat		Bioactivity of Selected indigenous plant sp. Against Bemisia tabaci and chemical identification of bioactive extracts.

Obeid, Omar	Hwalla, Nahla	Meal patterns in male rats following diet manipulation: effect of essential amino acids
Haidar, Mustapha	Nimah, Musa	Fertigation with phosphoric acid (H <sub>3</sub> PO <sub>4</sub> ) for Orobanche ramose control in potato
Makhzoumi, Jala		The History of AUB Campus Landscape
<b>Assistant Professor</b>		
Bashour, Isam	Yanni, Sandra	Non Nutritive Trace Elements Content of Synthetic Fertilizers in Lebanon
Yau, Sui-Kwong	Nil	Effects of rotation: Comparing barley
Hwalla, Nahla	El Hajj Fuleihan, Ghada; Mehio-Sibai, Abla	Interaction between fat mass, insulin resistance, bone and the vitamin D-PTH axis in Overweight (BMI≥85 <sup>th</sup> percentile) Pre-adolescent Children and Adolescents in Lebanon
Nimah, Musa		Effect of deep root irrigation, and strip irrigation on yield of fruit trees and irrigation efficiency.
Sidahmed, Moatasim		Development and Testing of a Spray Hazard Classification System for the Developing Countries
Hamadeh, Shady	Barbour, Elie	Difference in digestibility, blood and urine parameters between water and feed restricted Awassi ewes
Abou-Jawdah, Yusuf		Cucurbit yellow stunting disorder virus: Sensitivity of detection methods and Development of resistant transgenic plants
Barbour, Elie	Talhok, Salma; Hamadeh, Shady	Avian Influenza viruses carried by domestic and migrating birds across the Lebanese territory

The members of the committee evaluated other research proposals submitted to LNCSR and sabbatical leaves submitted by FAFS Professors.

**Prepared by  
Isam Bashour**

## **THE LIBRARY COMMITTEE**

**2005-2006**

During the academic year 2005-2006 no official meetings were held for the Library Committee. Instead frequent short meetings were held with the library custodian where library related issues were discussed and no particular complaint was raised that necessitated holding a special meeting.

**Prepared by  
Yusuf Abou-Jawdah**

## **The Student Affairs Committee**

**2005-2006**

### **M. Haidar, SAC Chairperson**

The members of the Students Affairs Committee for the year 2005-2006 were: Drs. Haidar (Chairperson), Kassaify, Olabi, and Weltzien, and Mr. Fawzi Issa (SRC representative).

The Committee met several times during the period of October 1, 2005 until September 30, 2006, and voted on many items. The Committee members discussed disciplinary actions and FAFS awards and made the following recommendation to the Dean.

#### **Student Code of Conduct**

Members reviewed a draft prepared by Mr. Nahas regarding a unified format for the Student's Code of Conduct and made few changes and suggestions.

#### **Disciplinary Actions**

One student has been accused of violating AUB's code of conduct by cheating during a midterm of INFO 200 course in the Business School. The Student Affairs Committee of the Faculty of Arts and Sciences found him guilty of cheating and recommended that he be given a Dean's warning that appears on his transcript, and a grade of zero on the assignment in question. Committee members discussed his case at length and unanimously recommended that he be penalized by a zero grade on his midterm and a verbal warning.

The committee approved the petition of a student to remove the Dean's warning from his transcripts effective February 22, 2006. The student dropped out from the faculty in June 2005 and the dean's warning on his transcript has been hindering the student from joining any other university.

Finally, the committee recommended that a student receives a Dean's Warning. He cheated during the final exam of Agr 201.

#### **FAFS Awards**

##### **Joana Haidar Award**

The committee selected **Ms. Lama Yasmin Tawk** for this Award. The Award was announced during the Aggie Olympics at AREC in May 2006.

##### **FAFS Alumni Award**

The committee selected **Ms. Farah Baroudy** for this award for the academic year 2005-2006

##### **Edcombe Award**

The committee selected **Ms. Mirna Choueiri** for this award for the academic year 2005-2006

##### **Dean Thomas Thuserland Prize for Graduate Excellence**

An e-mail was sent by the Chairperson to all faculty members to call for nominations for this award. Each professor was asked to nominate only one graduate student along with a copy of the thesis, resume and provision of justification for making the nomination. Seven nominations were considered and each thesis was reviewed by two outside reviewers.

Reviewer's comments (evaluation sheet) were used as criteria for selection/ranking. Ranking was based on the originality, design, research, clarity of presentation and importance to the field. The committee recommended that this award to be shared between Ms. **Maya Basil and Mr. Ramzi Issaa** for this award.

#### **Abdul Hadi Debs Award**

The committee established and recommended to the Dean's office written procedures for this Award. Two nominations were considered and each manuscript was reviewed by two outside reviewers. Reviewer's comments (Score sheet) were used as criteria for selection/ranking. Ranking was based on the originality, design, research, clarity of presentation and importance to field. The committee recommended **Ms. Souraya Moukarzel** for this award

#### **Penrose Award**

The Chairperson sent an e-mail to all FAFS faculty members asking them to submit nominations for this award with the deadline initially set for June 15, 05. The Committee reviewed the records of 4 nominees. After reviewing them, the committee recommended to the Dean all nominees, in order of preference:

- 1. Soha Frem**
- 2. Nadin Mikati**
- 3. Kassem Jouni**
- 4. Reem Hamzeh**

Candidates were asked to make short presentations about their qualifications for the award during the upcoming faculty meeting. The faculty voted for **Ms. Soha Frem.**

Thank you.