ANNUAL REPORT

FACULTY OF AGRICULTURAL AND FOOD SCIENCES

2004-2005

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ANNUAL REPORT FACULTY OF AGRICULTURAL AND FOOD SCIENCES

2004-2005

INTRODUCTION

Students enrollment figures for the academic year 2004/2005 were as follows: 594 students during the first semester of which 86 were graduate students and 607 students during the second semester of which 82 were graduate students; 281 students during summer 2005 of which 32 were graduate students. During 2004/2005, 125 students graduated: 14 with a B.Sc. in Agriculture; 15 with a B.Sc. in Landscape Design and Eco Management; 63 with a B.Sc. in Nutrition and Dietetics, 8 with a B.Sc. in Food science and management and 25 received their M.Sc. degrees. Three new courses were approved by the FAFS Academic and Curriculum Committee which were offered during the Spring Semester 2004/2005: two undergraduate elective courses LDEM 261 "Spatial Structures and Movement" and LDEM 262 "Healing Landscapes: Contemporary and Historical Settings"; and one graduate course NFSC 351 "Food Safety-Contaminants and Toxins". Four elective science service courses were opened for non-science majors with total enrollment in them exceeding 200 students.

Effective October 1, 2004, Drs. Isam Bashour and Moatsim Sidahmed were promoted from Associate to full Professors in the Land & Water Resources department. Dr. Efat Abou Fakhr Hammad, Associate Professor in the Plant Sciences department, spent her periodic paid research leave at the University of Florida, Gainesville. Dr. Ali Hussein joined FAFS effective October 2004 as a full time Assistant Professor of Landscape in the Plant Sciences department. Dr. Sana Ghaddar joined the Nutrition and Food Sciences Department as a full time Assistant Professor of Nutrition. Drs. Nasri Kawar and Adib Saad were appointed by the Minister of Agriculture, as members of the National Committee on Pesticides Regulations and Trade. Drs. N. Daghir and M. Farran were appointed by the Minister of Agriculture, as members of the National Committee on Animal Nutrition and Dr. E. Barbour on the National Committee on Animal Health. Two applicants one for the Horticulture position and the other for the Food Science Position were sent offers for the next academic year 2005/2006. The candidate for the Food Science Position accepted the offer and joined the Faculty in September 2005.

Effective October 1, 2004, the University Research Board (URB) provided funds for 16 faculty members with a total budget of \$117,000, while the Lebanese National Council for Scientific Research (LNCSR) provided funds for 6 faculty members with a total budget of \$31,700 and a total of 31 restricted grants and service contracts with a total budget of \$6,708,950 were funded by international agencies and private companies.

Work started on the Pilot Plant and construction is expected to be completed by February 2006. The installation of equipment will probably require about one month and hopefully the plant will be in operation by late March 2006. The Creamery at AREC began its operation and is now producing yogurt, Labneh and an assortment of cheeses.

The FAFS continued to have workshops and seminars in the service of the public and private sectors. The year 2004/2005, inspite of the unrest and sad events that took place in Lebanon continued to be productive and rewarding for the Faculty and the University. Student enrollment increased by over 12%, research output was 1.8 peer reviewed journal articles per faculty for the year and support for research from outside agencies continued to increase.

SECTION A SUMMARY REPORT OF THE DEAN

PERSONNEL

Regular Appointments

Dr. Ali Hussein joined FAFS effective October 2004 as a full time Assistant Professor of Landscape in the Plant Sciences department.

Dr. Sana Ghaddar joined the Nutrition and Food Sciences Department as a full time Assistant Professor of Nutrition.

Periodic Paid Research Leave

Dr. Efat Abou Fakhr Hammad, Associate Professor in the Plant Sciences department, spent her periodic paid research leave at the University of Florida, Gainesville.

Promotion

Effective October 1, 2004, Drs. Isam Bashour and Moatsim Sidahmed have been promoted from Associate to full Professors in the Land & Water Resources 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)

Coordinators of Academic Programs

Effective October 1, 2004, 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; Dr. Jala Makhzoumi, Coordinator of Undergraduate Studies, Landscape Program; Dr. Raja Tannous, Coordinator of Undergraduate Studies, Food Science and Management Program; Dr. Riad Baalbaki, Coordinator of Graduate Studies; Dr. Rami Zurayk, Coordinator of the Ecosystem Management Program and Dr. Shady Hamadeh, Coordinator of ESDU.

Academic Personnel

Table 1 shows the number of faculty by rank. All those in the professorial ranks hold doctoral degrees; 20 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 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	7
Assistant Professors	6
Lecturers	1 (Part time)
Instructors	12 (3 Full time) (9 Part time)

Table 2: OTHER ACADEMIC PERSONNEL

Category	Funds	Number
Research Associates	University	1 (Part time)
	Grant	4
Senior Research Assistant	University	2
	Grant	1
Research Assistants	University	6
Research Assistants	Grant	70 (43 Full time) (27 Part time)
Graduate Assistants	University	21

Non-Academic Personnel

There are 12 non academic employees in Beirut (Table 3) and 42 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 majority of their work is for assisting in teaching and research in those three Departments.

Table 3: LIST OF NON-ACADEMIC STAFF

	<u>NAME</u>	TITLE	<u>GRADE</u>
I.	Dean's Office		
	Azhari Omari, Rana	Clerk Stenographer	7
	Hamzeh, Haifa	Secretary	9
	Haydar, Imad	Junior Clerk	3
	Khoury, Wafa	Executive Officer A	Above grade 12
	Koubayssi, Rabia	Assistant for Student Services	10
II.	Animal Science		
	Atikian, Nesta	Senior Technician	9
	Harb, Mohammad	Animal Attendant	3
	Safar, Shady	Livestock & Poultry production Sup	pervisor 12
	Shukr, Talib Ali	Senior Poultry Attendant	4
	Zreik, Mohammad	Poultry Attendant	2

Table 3: (Cont'd)

	NAME	TITLE	GRADE
III.	Plant Sciences		
	Abu Samra, Elias El-Haddad, Nicloas	Farm Crop Production & Protection Supervisor	3 12
	Kayyal, Hatem Yazbek, Ali Abbas	Agronomy Foreman Assistant Agronomy Foreman	6 3
IV.	Nutrition and Food Science	<u>s</u>	
	Derboghossian, Arsine Ghannam, Tania Kadi, Ghassan Rawdah, Mustapha Tuma, Samir	Associate Technician Clerk Stenographer Associate Technician Laboratory Aide Associate Technician	6 7 6 1 6
V.	Land & Water Resources		
	Haidar, Naji Hajj-Hasan, Ahmad Mouna, Hassan Sindian, Ali	Assistant Mechanic Electrician Day &/or Night Attendant (Elect.& Boiler) Head Mechanic	4 6 6 9
VI.	AREC Administration		
	Hajj-Hassan, Hussein K. Yazbeck, Bilal Yazbeck, Mirna	Sales Attendant/Store Keeper Driver, Purchaser Clerk Typist	7 5 6
VII.	AREC Physical Plant		
	Hajj-Hasan, Fuad Hajj-Hasan, Husain Ali Hajj-Hasan, Khayrieh Hajj-Hasan, Mohammad Hajj-Hasan, Shehadeh Hasan-Kassem, Ibrahim Kak, Mohamad Masri, Ali Mussawi, Kuzhayyah Rumeh, Ali Sayyed-Ahmad, Abdullah Yaghi, Hazim Zein, Bassam	Boiler Operator/Pipe Fitter Gateman/Watchman Maid Gateman/Watchman Janitor Gateman/Watchman Gateman/Watchman Gateman/Watchman Gateman/Watchman Gateman/Watchman Janitor Gateman/Watchman Janitor Gateman/Watchman Physical Plant supervisor Mason	6 3 1 3 1 3 3 3 1 3 12 5

Table 3: (Cont'd)

	NAME	TITLE	GRADE
VIII.	AREC Production		
	Abou-Eid, Abdallah	Field Worker	1
	El-Ali, Ibrahim	Animal Attendant	3 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
IX.	AREC Cafeteria		
	Hamiyeh, Walid	Assistant Cook	5
	Kayyal, Ali	Food Service Worker	1
	Shamun, Hanna	Cook	7
	Shukr, Khalil	Food Service worker	1
Х.	AREC Library		
	Sleiman, Samar	Librarian	6
XI.	AREC AUH		
	Sayyed-Ahmad, Mariam	Staff Nurse	9

ACADEMIC AND STUDENT AFFAIRS

Students enrollment figures for the academic year 2004/2005 were as follows: 594 students during the first semester of which 86 were graduate students and 607 students during the second semester of which 82 were graduate students; 281 students during summer 2005 of which 32 were graduate students. Our summer training program in food sciences is developing very well and during the summer 2005, 30 students received training in 16 different companies in Lebanon and three went for training outside Lebanon.

During 2004/2005, 125 students graduated: 14 with a B.Sc. in Agriculture; 15 with a B.Sc. in Landscape Design and Eco Management; 63 with a B.Sc. in Nutrition and Dietetics, 8 with a B.Sc. in Food science and management and 25 received their M.Sc. degrees.

Table 4: STUDENT ENROLLMENT BY CLASS 2004-2005

UNDERGRADUATE AND GRADUATE STUDENT ENROLLMENT IN FAFS

Undergraduates

	Fall 2004-2005	Spring 2004-2005	Summer 2004-2005
AGR I	96	95	39
AGR II	45	40	25
AGR III	14	23	18
AGR IV	11	12	4
Special	12	4	
Total AGR	178	174	86
LDEM I	30	34	15
LDEM II	12	13	8
LDEM III	7	6	4
LDEM IV	16	19	2
Special	0	0	0
Total LDEM	65	72	29
ND I	42	35	10
ND II	39	50	28
ND III	57	57	20
Special	7	8	6
Total ND	145	150	64
FSMT I	81	75	28
FSMT II	29	37	17
FSMT III	10	17	25
Total FSMT	120	129	70
Total UG	508	525	249

Graduates

	Fall 2004-2005	Spring 2004-2005	Summer 2004-2005
Agricultural Economics	7	6	2
Animal Science	5	4	2
Ecosystem Management	13	10	3
Food Technology	13	13	5
Irrigation	3	3	0
Mechanization	0	0	0
Nutrition	28	31	11
Plant Protection	9	8	4
Plant Science	3	3	1
Poultry Science	3	2	2
Soil	2	2	2
Total Graduate	86	82	32

RESEARCH GRANTS AND SERVICE CONTRACTS AND PUBLICATIONS

Effective October 1, 2004, the University Research Board (URB) provided funds for 16 faculty members with a total budget of \$117,000, while the Lebanese National Council for Scientific Research (LNCSR) provided funds for 6 faculty members with a total budget of LL 47,500,000. Also, during 2004/2005, we had on record a total of 31 restricted grants and service contracts with a total budget of \$6,708,950. Five of these were handled thru the REP Office and the others thru the Grants and Contracts Office.

A new grant agreement funded by IDRC on "Wild Edible Plants: Promoting Dietary Diversity in Poor Communities of Lebanon" with a total budget of \$154,986 for the period November 30, 2004-November 29, 2006. Dr. Batal is the project coordinator. Another agreement from IDRC was also approved for Dr. Ramy Zurayk on "Regional Training & Knowledge Sharing in Urban Agriculture for the Middle East & North Africa". The project period is from January 14, 2005 to July 14, 2007. Total budget amounting to \$384,995.

A memorandum of partnership agreement between the Agricultural Higher Education and Development (AHEAD) of the College of Tropical Agriculture and Human Resources of the University of Hawaii at Manao and FAFS was signed. This agreement was effective as of December 2, 2004 until June 30, 2005. It aimed at strengthening academic programs and extension training in Agricultural Sciences at the College of Agriculture and Forestry at the University of Mosul and the University of Dohuk in Iraq, as well as rehabilitating the research infrastructure and agricultural research programs at both colleges. The budget allocated for this partnership agreement was \$ 152,690.

A new project funded by UNIDO on "Microbiological Testing of Meat and Poultry" has been approved effective May 2005 for \$13,000. Dr. Raja Tannous is the Principal Investigator. A new project on "Integrated Development of Wadi System in Lebanon" was approved for the period March 23, 2005-August 31, 2005. This project was funded by UNESCO for a total budget of \$2,000 and Dr. Nadim Farajalla is the Principal Investigator. A second project for Dr. Farajalla on "Support for Environmental Management of the Iraqi Marshlands" is funded by the United Nations Environment Programme (UNEP) and the International Environmental Technology Centre (IETC). Duration of this project was from March 18, 2005-July 30, 2005, with a total budget of \$ 40,878. "FAFS/UNIFERT Vegetable Seed Trial" was renewed for the 2005 Season with a total budget of \$ 7,000.

Visiting URB Scholar

Dr. Katherine Gray Donald, Associate Professor of Human Nutrition at McGill University, was invited by the Nutrition and Food Science department on the URB Visiting Scholar Program. She visited the department on June 8-22, 2005, where she met with faculty and students and presented lectures on recent issues of Nutrition. Dr. Donald gave one genereal lecture to the AUB Community on "Diet as a major contributor to health. What is the evidence?". Two lectures were given to FAFS faculty and students on "Measuring food and nutrient intake. Suiting the method to the purpose" and "Getting the most from your dietary data for public health messages". Dr. Donald gave an intensive six hour course to the Nutrition and Food Science faculty members on proper statistical methods for management of food frequency data.

FACULTY PROFESSIONAL ACTIVITIES

FAFS Faculty members continued attending international and regional scientific meetings during 2004/2005. A total of 14 faculty members presented papers and/or chaired sessions in those meetings. Drs. Youssef Abou Jawdeh and Sui Kwong Yau, Professors in the Plant Sciences department, were granted long term faculty development leaves. Dr. Abou Jawdeh spent his leave at the University of Wisconsin-Madison, USA, from June 30-August 15, 2005 while Dr. Yau spent his leave at the University of Mannitoba, Canada, from July 1-August 31, 2005.

Research productivity continued to increase with a total of 51 papers published in scientific peer reviewed journals in 2004/2005 and numerous others in proceedings, books and chapters in books.

Symposia

A symposium, entitled Challenges Facing Water Resources Management in Arid and Semi-Arid Regions, was held at FAFS on October 7 and 8, 2004. It was sponsored by the Fares Foundation, Dar al-Handasah, UNESCO, and AUB (FAFS and FEA) under the direction of co-chairs Musa Nimah and Nadim Farajalla. The symposium was divided into three sessions, Water Demand and Supply Management in Agriculture, Water Demand and Supply Management in Domestic and Industrial Sectors, and Conflict Resolution and Policy Issues in Water Resources Management. Representatives from 12 different countries presented 23 papers on a variety of topics. Keynote speakers were Peter Rogers (Harvard University) and Marshall English (Oregon State University)

Honoring of FAFS Distinguished Alumni

The FAFS in cooperation with its Alumni Chapter held a dinner on January 19, 2005 at the Bristol Hotel in Beirut, to honor four of its distinguished Alumni. The Alumni honored were: Dr. Mansur AbaHusayn, a former Deputy Minister of Agriculture in Saudi Arabia, his Excellency Minister Elie Joseph Skaff, former Minister of Agriculture, her Excellency former Minister Wafa'a Dikaa Hamze, Minister of State in charge of Parliamentary affairs and Mr. Samir Kreideih, a prominent business man who is the owner and general manager of one of the biggest landscape companies in the Middle East. Besides FAFS Faculty and Alumni, President Waterbury, Provost Heath and several top officials of the Ministry of Agriculture and Advisors to the Minister, attended the Dinner. The proceeds from the Dinner went to the FAFS 50th Anniversary Graduate Student Endowed Scholarship Fund.

Dinner in Honour of FAFS Advisory Board

The Dean hosted a dinner on October 7, 2004, in the gardens of the Faculty in honour of members of its Advisory Board, which was established in the year 2000 from prominent members of agricultural businesses in the region. The dinner was attended by President Waterbury, Provost Heath, members of the BOD, FAFS Faculty and selected agri-business people that have contributed to the Faculty and cooperated with faculty members in various agriculture development projects. The Dean and the President both spoke on the occasion and welcomed the participants and thanked them for their contributions.

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 4036 students from its regular instructional programs: 2365 with the B.S. degree in the 4 undergraduate majors (Agriculture, Landscape Design & Eco Management, Nutrition and Dietetics, and Food Sciences and Management) and 1246 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 1956-2005*

1956-2005*	B.S.	M.S.	T.V.T.**	Total
Aden	5	1	0	6
Afghanistan	16	38	60	114
Algeria	1	0	0	1
Argentina	0	1	0	1
Australia	4	2	0	6
Bahrain	5	0	0	5
Bangladesh	1	44	0	45
Bolivia	3	3	0	6
Brazil	4	2	0	6
Canada	7	0	0	7
China	0	1	0	1
Costa Rica	1	1	0	2
Cyprus	12	17	22	51
Denmark	1	0	0	1
Egypt	5	3	0	8
Ethiopia	1	1	92	94
France	6	2	0	8
Germany	1	0	0	1
Ghana	1	0	0	1
Greece	6	6	0	12
India	1	3	2	6
Indonesia	1	0	0	1
Iran	60	45	19	124
Iraq	12	12	0	24
Jordan	106	102	20	228
Kenya	1	0	0	1
Kuwait	5	1	0	6
Lebanon	1848	593	4	2445
Lesotho	1	0	0	1
Libya	2	0	17	19
Maldives	2	0	0	2
Mexico	1	0	0	1
Morocco	12	4	0	16
Nepal	6	9	44	59
Nigeria	3	0	0	3
Oman	1	0	0	1

1956-2005*	B.S.	M.S.	T.V.T.**	Total
Pakistan***	15	229	89	333
Palestine	46	26	0	72
Qatar	1	0	0	1
Romania	1	0	0	1
Saudi Arabia	8	0	4	12
Sierra Leone	2	0	0	2
Somalia	0	2	24	26
Sirilanka	0	1	0	1
Sudan	18	25	23	66
Sweden	0	1	0	1
Switzerland	1	0	0	1
Syria	62	36	0	98
Tanzania	0	1	0	1
Togo	0	1	0	1
Tunisia	2	0	1	3
Turkey	8	10	0	18
UK	9	3	0	12
USA	17	7	0	24
Venezuela	5	3	0	8
Yemen	7	2	4	13
Yugoslavia	0	1	0	1
Unknown	21	7	0	28
Total	2365	1246	425	4036

^{*} As of June 2005. ** 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

2004-2005

Shady K. Hamadeh, Chairperson

SUMMARY OF THE PROGRAM

The Department members managed to offer 17 undergraduate and 7 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 9 research papers either published or accepted, a book, and a chapter in a book.

Furthermore, Department members participated in various workshops and conferences in Lebanon and abroad.

PERSONNEL

Faculty and Staff

Academic

Elie Barbour, Ph.D.; Professor of Veterinary Microbilology.

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, Maria-Pia Nehmeh (on grant) and AminGhanem (on grant); Research Assistants. Akram Al Kadi, Samar Dankar Elie Ghadban, Hussein Halawi, Nadine Hanna and Ramzi Issa; 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

	No. of students	Core courses	Electives	Others
Fall 04-05				
Undergraduat	e 178	4	2	1 (ES course)
Graduate	8	4	-	-
Spring 05				
Undergraduat	e 174	5 (including seminar)) 2	1 tutorial
Graduate	6	4 (inculding seminar)	-	-
Summer 05				
Undergraduat	e 85	2	2	
Graduate	3	-	_	_

No. of Graduate students enrolled and graduated

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

SERVICES

Elie Barbour

- Serving 40 range reared farms in Jezzine area beneficiaries are land mine victims, funded by WRF
- Serving commercial layers farms in Bekaa Valley area
- Serving poultry farmers and poultry companies in the North.
- Initiated the establishment of new Free range broiler farms in the Jezzine District
- Services ongoing in Koura farms belonging to Wilco Company.
- AHEAD Project (Feb 20-26, 2005): Presented in different sessions, and chaired one session for the whole day on the subject of Revitalizing Agricultural higher education and development.
- Serving on the Admission and Advisory Committees.

Mohamed Farran

- AREC Director.
- Attended workshops and seminars organized by national and international companies.
- National Project Director, TCP/LEB/2905, FAO August 2003 to date.
- Member of Board of Directors, Lebanese National Council for Scientific Research, October 14, 2003 to date.

- FAFS Strategic Planning Committee, member.
- Task Force on Agriculture and Environment (LNCSR)
- Advisor (non-remunerated) to the Minister of Agriculture. Republic of Lebanon. (Oct. 26 Apr. 19, 2005; Jul. 19, 2005 to date)

Shadi Hamadeh

- FAFS Advisory Committee
- FAFS Administrative Committee
- Chairperson
- FAFS Academic and Curriculum Committee
- Extension work and training farmers on small ruminant production.
- Coordinator of the Environment and Sustainable Development Unit (ESDU)
- Coordinator of the National training Unit under the NEMTA project supported by IFAD
- Coordinator of the FAFS-AHEAD Project
- Moderator in Regional Training and Knowledge Sharing in Urban Agriculture for the Middle East and North Africa.
- Acting Dean, during various periods of the year.

Fawwak Sleiman

- University Senate
- University Disciplinary Committee
- FAFS Graduate Committee
- FAFS Ad-hoc Equipment Committee
- Alumni Class Reunion Committee
- Participated in two workshops on Forage Production US-AID/FAFS sponsored.
- Animal Science Academic Trainer of AHEAD "Iraqi-Hawaii" program that was held at AUB during last week of February 2005.

RESEARCH

Elie Barbour

Projects:

- 2 IBSAR projects; Antimicrobial activities in indigenous medicinal herbs of Lebanon.
- LNCSR project; Relationship of water deprivation-stress to immunity in Awassi ewes of Lebanon.
- Thesis supervision for three graduate students, namely:

Danielle Jirjis (Poultry Science): Anticandidiasis effect of some indiginous plants Samar Dankar (Poultry Science): Anti-influenza effect of some indiginous plants Rana El Hajj (Ecosystem Management): Bacterial contamination in Ostracoda (bivalve shells).

Mohamed Farran

Projects:

- Evaluation of Graded Levels of Organic Manure on yield and Quality of Vegetable Crops Grown in the Bekaa Valley, supported by Green line Association (Completed).
- Free-range table bird production in Lebanon, supported by Green line Association (Completed).
- Utilization of Locally Produced Barley and Oil Seed Meals and Feed Additives in Poultry

- Diets, supported by LNCSR, (Ongoing).
- Evaluation of Graded Levels of Organic Manure on Yield and Quality of Potato Grown in the Bekaa Valley (ongoing).
- Effect of Dried Medicinal Crops on the Performance and Carcass Flavour of Broilers. (AHEAD Project)
- Performance and Carcass Quality of Three Different Broiler Strains Fed Animal or Plant Protein Diets. (AHEAD Project)
- Comparative Study of Thigh Muscles and Bones Conformation of Local vs. Imported Turkey Breeds. (AHEAD Project)
- Gastro-intestinal Structure and Performance of Broiler Strains Fed Plant or Animal Protein Diets. (AHEAD Project)
- Effect of Dietary Phytase on the Performance of Broiler Chicks, Supported by Obegi Chemicals Sal.

Shadi Hamadeh

Projects:

- Economic sustainability of small ruminant production in semi-arid areas.
- Environmental indicators of adaptation in livestock.
- Conservation of Stripped Hyaena in Lebanon: a threatened and reviled scavenger in human-dominated landscape.
- Thesis work supervision for 2 graduate students: Nadine Hanna and Elie Ghadban.

Fawak Sleiman

Projects:

- The potential use of food by-products as feed for ruminants. Initiated a research study on olive pulp, thesis work of Mr. Ramzi Issa.
- The research work of Mr.Shaker Ibrahim, of University of Dohuk-Iraq (AHEAD Project)
- Four rumen fistulas were put in Awassi ewes and are ready to be used on a joint research project with Dr. M.Haidar (FAFS).

PUBLICATIONS

Full Length Articles:

- Avedemian L., Sleiman F.T. et al. 2004. Preparation of chicken anti-human lymphocyte globulin (IgY). Immunology.
- Barbour E., Banat G., Itani W., Jaber L., Habre A., Hamadeh S. 2005. Quantitative assessment of humoral immunosuppression in water deprived semi nomadic sheep. International Journal of Applied Research in Veterinary Medicine (USA), 2(4):310-320.
- Barbour E.K., Sheib H., Sagherian V., Talhouk R., Talhouk S.2005. Immunopotentiation activities of Calendula officinalis and Centaurea ainetensis against IBD (Gumboro) virus in chicken broilers. Journal of the American Holistic Veterinary Association. 23(4): 15-20.

- Barbour, E. K., Shaib, H., Jaber, L., and Talhouk, S. Standardization and evaluation of RAPD-PCR in subspecie-typing of Mycoplasma gallisepticum. International Journal of Applied Research in Vetrinary Science, In Press.
- Barbour, G. W., M. T. Farran, M. G. Uwayjan, V. M. Ashkarian, A. H. Darwish, and N. N. Usayran, 2005. Effect of soybean oil supplementation to low ME diets on production parameters of broiler chickens. J Appl. Poultry Res. (in review)
- Farran, M. T., W. S. Halaby, G. W. Barbour, M. G. Uwayjan, F. T. Sleiman, and 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 Laying Hens. Poultry Sci. (In Press).
- Ghanem, A.M., Jaber, L.S., Abi Said, M., Barbour, E.K. and Hamadeh, S. K. 2005. The Effect of Vitamin C Supplementation on Some Physiological Indicators in Water-Stressed Awassi Ewes. Proceedings of the 6th International Sheep Veterinary Congress in Crete, Greece, 17-21 June, 2005. 182-183.
- Hamadeh, S. K., N. Rawda, L. S. Jaber, A. Habre, M. Abi Said and E. K. Barbour. Physiological responses to water restriction in dry and lactating Awassi ewes. Livestock Production Science. Accepted.
- Hamadeh S., Haidar M., Zurayk R., Obeid M., Dick C. 2005. Goats, cherry trees and videotapes: PDC for natural resource management in Semi-Arid Lebanon. Proceedings of FAO-IDRC Workshop on Communication and Natural Resource Management, Italy Sept. 1-5.
- Harake S., Yassin, H., Gharios, M., Barbour E.K., Hajjar, S., El Fadel, M., Toufeili, I., and Tannous, R. 2005. Isolation, Molecular characterization and antimicrobial resistance patterns of *Salmonella* and *Escherichia coli* isolates from Meat-based fast food in Lebanon. The Science of the Total Environment. 341:33-44.

Abstracts:

- Sleiman, F.T. et al. Utilization of different protein sources as supplements to whey treated straw silage. Joint annual meeting of ADSA-ASAS- CSAS, July 24-28,2005, accepted for presentation, Cincinnati, Ohio.
- Darwish, A.H., M.T. Farran, G.W. Barbour, N. Usayran, and V.M. Ashkarian, 2004. Effect of Feeding Graded Levels of Three Barley Varieties on Performance and Carcass Yield of Broiler Chickens. XXII Worlds Poultry Congress, Istanbul, Turkey. P 479.
- Farran, M. T., D.E. Haddad, E.K. Barbour, G. W. Barbour, and V. M. Ashkarian, 2004. Dietary Ervil (Vicia ervilia) as an Alternative to Fasting Method for Induction of Molt in Laying Hens. XXII Worlds Poultry Congress, Istanbul, Turkey. P 648.
- Farran, M. T., N. Usayran, R. Y. Eid, E. K. Barbour, A. H. Darwish, and V. M. Ashkarian 2004. Effect of Prebiotics, Avilamycin and Falvomycin on Broiler Performance and Cecal Flora. XXII Worlds Poultry Congress, Istanbul, Turkey. P 525.

Books:

Hamadeh, S. K., Haidar, M., and Zurayk, R. Research for Development in the Dry Arab

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 (in press)

Masters' Theses:

- Lina G. Zgheib: Role of Pure Dietary Canavanine in inducing Molt in Laying Hens, 2004.
- Pia Nehme: Effect of free-range versus intensive systems on density and drug resistance of the tracheal flora of chicken, 2004. (Ecosystem Management)
- Nada Omeira: Microbiological and chemical parameters of chicken litter in Lebanon, 2004. (Ecosystem Management)
- Ghanem, A. The effect of vitamin C supplementation on some physiological and immunological indicators in water-deprived awassi ewes (02-MAR-2005)
- Halawi, H. Vaccines and essential oil in respective protection and treatment of chicken and rabbit ailments (08-MAR-2005)
- Afram, M. Changes in fermentation characteristics and apparent digestibility of whey treated straw silage supplemented with different protein sources (11-FEB-2005)

MEETINGS, CONFERENCES AND WORKSHOPS ATTENDED

Elie Barbour

- Presented research on Avian Influenza in the 2005 American Veterinary Medical Association Conference, Minneanapolis, USA.
- Visit to Szent Estvan University (SEU) to initiate a cooperation between the Animal Science Dept. at FAFS and SEU, Aug. 27-Sept. 2, 2005.

Mohamed Farran

- Possible reductions of non nutritive feed additives in poultry feeds, November 20, 2004. World Poultry Science Association, Lebanese Branch, AUB, Beirut.
- Attended workshops and seminars organized by national and international companies.
- Visit to Szent Estvan University (SEU) to initiate a cooperation between the Animal Science Dept. at FAFS and SEU, Aug. 27-Sept. 2, 2005

Shadi Hamadeh

- Visit to Earth University, Costa Rica, December 13-18
- Participated in the International Conference to Engage Iraq's Science and Technology Community in Developing its Country, 18-20 Sept., 2005, Amman.
- Presented a research paper in the 6th International Sheep Veterinary Congress in Crete, Greece, 17-21 June, 2005.

FUTURE DEVELOPMENT

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.

In addition, the Department is developing an initiative on Integrated Livestock Systems in collaboration with Earth University in Costa Rica. The initiative includes an exchange program of scientists and graduate students, between the Department and Earth.

DEPARTMENT OF LAND AND WATER RESOURCES

2004-2005

Isam I. Bashour, Chairperson

SUMMARY OF 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 three courses were offered, fifteen undergraduate and eight graduate. A total of ten students earned a Master of Science degree, two in irrigation, two in hydrology, one in economics and five in ecosystem management. Published research included ten refereed articles, nine conference papers and eight chapters in books. 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.

Departmental Research Assistant

Yanni, Sandra, M.Sc.

Part Time Instructor

Moukarzel, Carla, M.Sc.

Research Assistants

Semester	Part time (Grant)	Full time (Grant)	
Fall	Nizar Jaber	Rania Touma	
Oct 1, 2004- Jan. 31, 2005		Dany Lichaa El-Khoury	
		Roula Faress	
		Hind Farah	
		Samer Fatfat	
		Ali Houjeri	
		Thana Abou Ghyda	
		Youssef El-Masri	
		Nivine Hajj Hassan	
Spring	Adonis Akl (project driver)	Nivine Hajj Hassan	
Feb. 13 -June 14, 2005	Marcos Hado	Hind Farah	
	Rania Abou Mosleh	Rola Fares	
	Soraya Moukarzel		
	Joanna Khoury		
Summer	Adonis Akl (project driver)	Nivine Hajj Hassan	
June 2005 – Sep. 2005	Marcos Hado	Hind Farah	
	Rania Abou Mosleh	Rola Fares	
	Soraya Moukarzel		
	Youssef Obeid		
	Maroun Afram		
	Nadine Aoun		
	Maya Mhanna		

Graduate Assistants

Semester	Students
Fall	Rana El Hajj
Oct 1, 2004- Jan. 31, 2005	Grace Rachid
	Rita Wakim
	Nadine Aoun
	Maya Mhanna
	Carine Elia
	Mario Saadeh
	Soraya Moukarzel
	Yousef Doughan
Spring	Rana El Hajj
Feb. 13 - June 14, 2005	Grace Rachid
	Khaled Ahmad Hamdan
	Alia Alameddine
	Rita Wakim
	Bashar Berro
	Nadine Aoun
	Carine Elia
	Joumana Karameh
	Joanna Khoury
	Maya Mhanna
Summer	Grace Rachid
June – September 2005	Alia Alameddine
	Rita Wakim

TEACHING ACTIVITIES

Undergraduate Courses

Semester	Course #	Course Name	Instructor
	LWRS 215	Introduction to Soil	Dr. R. Zurayk
Fall	ENSC 202	The Environment and Sustainable Development	Dr. R. Zurayk
04-05	LWRS 212	Agricultural Economics, Principles and Policy	Dr. R. Darwish
	LWRS 290	Project Planning and Appraisal	Dr. R. Darwish
	LDEM 245	Irrigation Methods for Landscape Designs	Dr. M. Nimah
	NFSC 291	Elements of Food Engineering	Dr. M. Sidahmed
	LDEM 229	Turfgrass Culture, Machinery and Management	Dr. M. Sidahmed
	LWRS 265	Soil Fertility	Dr. I. Bashour
Spring	AGRL 201	Orientation to Agriculture and Food Systems	Dr. N. Farajalla
2005	LWRS 229	Water and the Environment	Dr. N. Farajalla
2003	LWRS 241	Farm Management	Carla Moukarzel
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
Summer	LWRS 225	Farm Power and Machinery	Dr. M. Sidahmed
2005	AGRL 235	Agricultural Extension in Development	Dr. A. Kharrat

Graduate Courses

Semester	Course #	Course Name	Instructor	
Fall 04-05	AGRL 301 AGRL 302 LWRS 324 LWRS 317 LWRS 310	Statistical Methods in Agriculture Scientific Communication Methods of Soil and Plant Tissue Analysis Surface Water Hydrology Advanced Soil Physics	Dr. M. Sidahmed (Shared) Dr. M. Sidahmed (Shared) Dr. I. Bashour Dr. N. Farajalla	
Spring 2005	ENSC 630 ENSC 631 AGRL 302 LWRS 320	Natural Resource Management Agricultural Pollution and Control Scientific Communication Project Planning and Management	Dr. M. Nimah Dr. R. Zurayk Dr. I. Bashour (50%) Dr. M. Sidahmed (Shared) Dr. R. Darwish	

No. of Graduate students enrolled and graduated

Semester	Agricultural	Irrigation	Hydrology	Soil	Ecosystem
	Economics				Management
Fall 04-05					
Enrolled	5	4	5	2	10
Graduated		1			3
Spring 2005					
Enrolled	5	2	4	3	10
Graduated	1	1	1		1
Summer 2005					
Enrolled				2	8
Graduated			1		1

Graduate Advisees

Student	Advisor
Rita Wakim	Isam Bashour
Alia Alameddine	Isam Bashour (Co-Advisor)
Bashar Berro	Isam Bashour (Co-Advisor)
Rania Khalil	Ragy Darwish
Lina Yamout	Ragy Darwish
Youssef Doghan	Ragy Darwish
Joumana Karameh	Ragy Darwish
Mario Saadeh	Ragy Darwish
Soraya Moukarzel	Musa Nimah / Ragy Darwish
Nadine Aoun	Nadim Farajalla
Maya Mhanna	Nadim Farajalla
Rania Abou Mosleh	Nadim Farajalla
Joy el-Jadam	Nadim Farajalla
Ghassan Haddad	Nadim Farajalla / Musa Nimah
Carole Abou Rached	Musa Nimah
Rana Badawi	Musa Nimah
Haya Al Assi	Rami Zurayk
Joanna El Khoury	Rami Zurayk
Grace Rachid	Rami Zurayk

Graduate Thesis

Name of Student	Co-advisor/	Thesis Title	
	Committee Member		
Carole Abou Rached	Musa Nimah	The Impact of Regular Deficit Irrigation and	
		Split Nitrogen Fertilization Impact on Wheat	
		and Barley Yields.	
Rita Wakim	Isam Bashour	Selenium in Selected Lebanese Soils,	
		Grains, vegetables and Fruits	
Rana Badawi	Musa Nimah	Economics of Irrigation Systems on Football	
		Fields	
Alia Alameddine	Isam Bashour	Efficacy of Ammonium Hydroxide and	
		Hydrogen Peroxide for the Control of Root	
		Nematodes, Fusarium and Verticillium Wilt	

Bashar Berro	Isam Bashour	Not decided yet	
Maria-Pia Nehme	Rami Zurayk	Density and Drug Resistance in Upper	
		Respiratory System Microflora of Intensive	
		and Range-Reared Commercial Chicken	
Nada Omeira	Rami Zurayk	Microbiological & Chemical Parameters of	
		Chicken Litter in Lebanon	
Safaa Hojeij	Rami Zurayk	Household Strategies of Access and	
		Consumption of Water in Bebnine	
Grace Al Azar	Rami Zurayk	Water Use at the Household Level in the	
		Town of Bebnine and its Relation to	
		Health Conditions	
Haya Al Assi	Rami Zurayk	The Diet of Fistularia commersonii, a	
-		Lessepsian Invasive Piscivorous in the	
		Eastern Mediterranean	
Joanna El Khoury	Rami Zurayk	Evaluation of the Social Corporate	
		Performance of an Organic Farming	
		Business: Case of Healthy Basket	
Grace Rachid	Rami Zurayk	The Sustainability of Lebanese Traditional	
		Natural Resource Management Systems	
Joy el-Jadam	Nadim Farajalla	A GIS-based Decision Support System for	
		Siting Wastewater Treatment Facilities in	
		Lebanon	
Ghassan Haddad	Nadim Farajalla /	Precipitation Trends And Modeling: Case	
	Musa Nimah	Study Beirut Region	
Rania Abou Mosleh	Nadim Farajalla	Characterization of Sources of River	
		Pollution Through River Bed Sediment	
		Analysis	
Nadine Aoun	Nadim Farajalla	Acid Rain and Chemical Composition of	
		Rainfall in Lebanon	
Maya Mhanna	Nadim Farajalla	Not decided yet	
Rania Khalil	Ragy Darwish	Economics of Bio-Waste Reuse in Feed	
		Ration	
Lina Yamout	Ragy Darwish	Economics of Protected Areas	
Youssef Doghan	Ragy Darwish	Economic of Eco-Tourism	
Soraya Moukarzel	Musa Nimah / Ragy	Virtual water and Water Productivity as a	
	Darwish	strategic plan for Optimum use of Water	
		Resources: Case Study Lebanon	
Joumana Karameh	Ragy Darwish	Economic Assessment of Agricultural	
		Secondary Reform	
Mario Saadeh	Ragy Darwish	Economic Assessment of Aquaculture use in	
		Agriculture	

PUBLICATIONS

Refereed Journals & Proceedings

Lteif, A., **I. Bashour**, **M.N. Nimah**, and **R. Darwish**. (2005). Selenium Levels in Beqaa Valley in Lebanon. 15th International Plant Nutrition for Food Security, Human Health and Environmental Protection, September 14-19, Beijing, China, pp. 716-717.

Bashour I. and M.N. Nimah. 2004. Fertigation potentials in the Near East region. IPI

- workshop on Potassium and Fertigation Development in West Asia and North Africa Region. Rabat, Morocco, November 24-28th, (C.D. publication).
- **Farajalla, N.S.**, Khoury, R., Saliba, S., and G. Chammas. 2005. Institutional and Governmental Barriers to Protecting Water Resources from Agricultural Practices in Lebanon. Journal of Agricultural Water Management, Elsevier (submitted 2005).
- **Farajalla, N.S.**, R. Abou Mosleh, **I. Bashour**, N. Kawar and **R. Zurayk**. 2005. Characterization of Coastal River Pollution in Lebanon through Riverbed Sediment Analysis. American Water Resources Association (AWRA) (submitted 2005).
- **Farajalla, N.S.** and R. Abou Mosleh, 2005. Characterization of River Pollution through Riverbed Sediment Analysis Case Study Lebanon. Proceedings ASAE International Meeting, Tampa Florida, USA. (CD Publication).
- Tami, F., **R. Darwish**, M. Abi-Said and S. Hamadeh. (2005). Sustainable Improvement of Small Ruminant Production in the Semi-Arid Areas of Lebanon, Journal of Sustainable Agriculture, Vol. 25(3), 2005.
- S.K. Yau and M.N. Nimah. 2004. Spacing Effects on Corm and Flower Production of Saffron (*crocus sativus*). Lebanese Science Journal, 5 (2), p. 13-21.
- S.K. Yau, M. N. Nimah, and I. Bashour. 2004. Safflower has the Potential to Mitigate Nitrate Leaching. Submitted to ASA.
- **Nimah, M. N.** 2005. Cucumber Yield under Regular Deficit Irrigation and Mulching Treatments, ACTA ISHS, Australia.
- **Sidahmed, M.M.** and N. S. Jaber. 2004. The Design and Testing of a Cutter and Feeder Mechanism for the Mechanical Harvesting of Lentils. Biosystems Engineering, 88 (3), p. 295-304.
- **Sidahmed, M.M.**, H.H. Awadalla, and M.A. Haidar. 2004. Symmetrical Multi-foil Shields for Reducing Spray Drift. Biosystem Engineering, 88 (3): p. 305-312.
- Haidar M.A., N. Iskandarani, **M.M. Sidahmed** and **M. R. Darwish**. 2005. Susceptibility of *Orobanche ramosa* and Potato Tolerance to Rimsulfuron. Journal of Crop Protection 24 (1), p. 7-13.
- 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, 31 March. (Accepted for Publication).
- Haidar, M. and M. M. Sidahmed. 2005. Elemental Sulfur and Chicken Manure for Control of Branched Broomrape (Orobanche ramose). Journal of Crop Protection. (Accepted for Publication).
- Talhouk, S.N., P. Van Breugel, R. Zurayk, A. Al-Khatib, J. Estephan, A. Ghalayini, N. Debian, and D. Lychaa. 2005. Status and Prospects for the Conservation of Remnant Semi-natural Carob Ceratonia siliqua L. Populations in Lebanon. Forest ecology and Management, Vol. 206, p. 49-59.
- Talhouk S. N., M. Dardas, M. Dagher, C. Clubbe, S. Jury, **R. Zurayk**, and M. Maunder. 2005. Patterns of Floristic Diversity in Semi Natural Coastal Vegetation of Lebanon and Implications for Conservation. Biodiversity and Conservation. Vol.14, 903-915.

- Bu Ghanem, M., L. Kai, J. Khoury, N. Moadad, et **R. Zurayk**. 2004. La Cerise d'Aarsal Liban. Promouvoir la Compétitivité de l'Agriculture par les Savoir-faire Locaux. Atelier sur les indications géographiques au Moyen-Orient et en Afrique du Nord, 7-10 Juin 2004, Montpellier, France. pp. 25-27.
- **Zurayk, R.**, F. Makki, S. Naddeh, M. Haidar, E. Codsi, S. Fatfat, A. Houjeiri, et J. Daccache. 2004. Le Plan d'Action Libanais. Promouvoir la Compétitivité de l'Agriculture par les Savoir-faire Locaux. Atelier sur les indications géographiques au Moyen-Orient et en Afrique du Nord, 7-10 Juin 2004, Montpellier, France. pp. 79-80.
- **Zurayk, R.**, M. Haidar, and S. Hamadeh. 2004. The Local Users Network: A Participatory Communication Forum. In: Participatory Communication for the Management of Natural Resources in Africa and the Middle East. Mear, A. ed. Roundtable of the Scientific Conference of the International Association for Media and Communication Research. Barcelona, 2002.
- Jamali, D. and R. Zurayk. 2004. A community of practice approach to knowledge management, ECKM 2004: The 5th European Conference on Knowledge Management, Conservatoire National des Arts et Metiers (CNAM), Paris, France, 30 September - 1 October, 2004.

Books & Chapters in Books

- **Bashour I.** 2005. Fertilization of Field Crops in the Near East Region. Near East Fertilizer Use Manual, FAO, Rome, Italy. (Accepted for publication).
- **Bashour, I.** (2005). Fertilization of Fruit Trees in the Near East Region. Near East Fertilizer Use Manual, FAO, Rome, Italy. (Accepted for publication).
- **Bashour I.** Soil Chemistry and Fertility. Submitted for publication to EOLSS Encyclopedia, United Nations (Accepted for Publication).
- **Farajalla, N.S.** and **M. Nimah.** 2004. Editors of symposium proceedings on "Challenges Facing Water Resources Management in Arid and Semi-Arid Regions," AUB-FAFS, Beirut, Lebanon.
- **Nimah, M.N.** 2004. System Selection and Management of Irrigation with Brackish/Saline Water. In, Prospects of Saline Agriculture in the Arabian Peninsula. Edited by: F.K. Taha, S. Ismail and A. Jaradat. Published by Amherst Scientific Publishers, Amherst, Mass, USA.
- **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.
- **Zurayk R,** L. Abdul Samad and Talhouk, S. 2004. Environmental Analysis of Urban and Peri-urban Coastal Agriculture in Lebanon. In: Nasr, J. and Padilla, M. (eds). L'Interface entre Agriculture et Urbanisation en Mediterrannee Sud et Est. Institut Français du Moyen Orient, Editions Delta. IFPO. pp: 279-290.
- **Zurayk, R**. and Haidar, M. 2004. Biodiversity Conservation Priorities: Lebanon. In: Sharing Innovative Experiences. UNDP. New York Vo. 9, pp. 13-20.

Reports, and Extension Papers

Bashour I.

• **Bashour I.** Fertilization of potato and grape in Lebanon, FAO workshop training for Agriculture Engineers, Ministry of Agriculture, Lebanon. (Power point presentation and CD publication in the proceeding of the workshop)

Darwish M.R.

- ◆ **Darwish, M.R.** Universities Technical Support for Agricultural cooperative, Presentation in the UNDP workshop about Public Private Support for Agricultural Cooperatives, Beirut, April 2005
- ◆ **Darwish, M.R.** Analysis of Production Costs and Determination of Product Prices, Training Manuals for LMOA's Engineers
- ◆ **Darwish, M.R.** Importance of Farm Records in Improving the Economical Management of the Farm, Training Manuals for LMOA's Engineers
- ◆ **Darwish, M.R.** Agricultural Projects preparation and Evaluation, Training Manuals for LMOA's Engineers
- ◆ **Darwish, M.R.** and Munif M. Abu-Rish. 2005. Mid-Project Evaluation for "Stimulating Markets and Rural Transformation Program (SMART), Final Report, YMCA-Beirut Lebanon, January 2005.
- ◆ **Darwish, M.R.** and Rami Ollaik. 2005. Assessing the Economic Feasibility of Mechanized Forage Production: "Towards a sustainable Future of Forage production in Lebanon", Final report, Beirut, June, 2005.

Farjalla N.

- ◆ Farajalla, N.S., and J. El-Khoury, 2005. "Integrated Water Resources Management Training-of-Trainers Training Manual" a manual submitted to the UNEP-IETC for training Iraqi Marshland Officials.
- ◆ Farajalla, N.S., and J. El-Jadam, 2005. "SEA Case Study Application for the Wastewater Sector in Lebanon" a report submitted the Lebanese Ministry of Environment and the UNDP.
- ◆ Farajalla, N. Co-authored "National Inventory on Persistent Organic Pollutants: Pesticides in Lebanon 2004." A report submitted to the Ministry of the Environment in 2005.
- Short extension television interview on water resources in Lebanon

<u>Zurayk R.</u>

- ◆ Zurayk, R. Provision of Extension Services to Strengthen the Yammouneh Irrigation Systems Rehabilitation. Progress report covering period of December 2003- February 2004.
- ◆ Zurayk, R. Provision of Extension Services to Strengthen the Yammouneh Irrigation Systems Rehabilitation. Final report
- ◆ Zurayk, R. Provisions of Technology Transfer and Extension for Major Irrigation Schemes. Demonstration & Mass Media reports # 1 & 2.
- ◆ Zurayk, R. Provisions of Technology Transfer and Extension for Major Irrigation Schemes. Environmental Awareness Report
- ◆ Zurayk, R. Provisions of Technology Transfer and Extension for Major Irrigation Schemes. 5th and 6th MoA staff training reports.
- ◆ Zurayk, R. Enhancing Livelihoods of Poor Farmers in South Lebanon: Community Supported Agriculture. Second progress report covering period August 2004 - October 2004
- ◆ Zurayk, R. Enhancing Livelihoods of Poor Farmers in South Lebanon: Community Supported Agriculture. Third progress report covering period November 2004 −

- January 2005
- ◆ Zurayk, R. Enhancing Livelihoods of Poor Farmers in South Lebanon: Community Supported Agriculture. Fourth progress report covering period February 2005-April 2005
- ♦ Extension papers edited and produced by **R. Zurayk**
 - o Talhouk S. and Khatib, A. 2004. Selection of New Varieties of Fruit Trees.
 - o Sleiman F. 2004. Forage Corn.
 - o Moussa Z. and Fares, R. 2004. Organic Agriculture.
 - o Bashour, I. 2004. Fertilization.
 - o Abou Fakhr Hammad, E. and Abou Jawdah, Y. 2004. Integrated Pest Management of Potato Pests.
 - o Abou Jawdah, Y. and Abou Fakhr Hammad, E. 2004. Integrated Pest Management of Citrus Trees.
 - o Khairallah, S. 2004. Grafting.
 - o Abou Fakhr Hammad, E. 2004. Stem Borrowers of Stone and Pome Fruit Trees.
 - o Khairallah, S. 2004. Pruning of Grapes
 - o Abou Jawdah, Y. 2004. Agricultural Techniques for the Implementation of IPM in Greenhouses
 - o Abou Jawdah, Y. 2004. Pesticides.
 - o Sleiman, F. 2004. Nutrition of Dairy Cows.
- ◆ Short extension TV spots supervised by **R. Zurayk**, 2004 and produced by ALA BOUED AMTAR

Five minutes spots

- o Agro-Ecotourism
- o Forage Crops
- o Improving Olive Oil Quality
- o Composting
- o Improving Sheep and Goat Production

Ten minutes spots

- o Control of Potato Tuber Moth
- o Pheromone Traps
- o Resistant Rootstocks for Agricultural Pest
- o Micro-irrigation
- o Introduction of New Agricultural Varieties and their Markets
- o Control of white Fly in Greenhouses
- o Apple Fertilization
- o Control of Apple Scab
- o Control of Mediterranean Fruit Fly
- o Banana Fertilization

◆ Posters

- o Sleiman, F. 2004. Dairy Cows Diseases
- o Abou Jawde, Y. 2004. Symptoms of Plants Nutrient Deficiency
- o Bashour, I. 2004. Compost Production
- o Bashour, I. 2004. Control of Major Fruit Stones Diseases
- o Lichaa El Khoury, D., Olleik, R. and Sattout, E. 2005. Bee Calendar.

RESEARCH PROJECTS

Bashour I.

- ◆ URB grant "Status of Selenium in Lebanese soils, grains, vegetables and fruits". Oct.1, 2004-Sept.30, 2005.
- Evaluation of different forage crops in Bekka.
- ◆ URB grant "Effect of Nitrogen fertilization on Potato Protection". Oct.1, 2004-Sept.30, 2005. (50%)

Farajalla N.

- ♦ Impact of El-Nino/La-Nina of Precipitation Patterns in Lebanon
- ♦ Characterization of River Pollutants through Riverbed Sediments
- Development of a Decision Support System for Site Selection of Wastewater Plants
- ♦ Effect of Temperature and Precipitation on Yield of Rain-fed Legumes in Lebanon
- ◆ URB grant "Characterization and Modeling Solute Movement in Soil Under Field Conditions", Grant for \$5500
- ♦ UNESCO funded grant "Integrated Wadi Hydrology in Lebanon", Grant for \$2000
- ◆ Acid Rain and Chemical Composition of Rainfall in Lebanon
- ♦ Ministry of Environment/UNEP funded grant "Assessment of Water Quality of Nature Preserves in Aammiq and Ras El Ain"

Nimah M.N.

- ♦ "Olive Production under Supplemental Irrigation and Split Fertigation" URB Grant
- ♦ "Saffron Production under Semi-arid Conditions" Lebanese National Council grant
- "Regular Deficit Irrigation" with Drs. Bashour and Yau
- "Economics of Irrigation Systems on Football Fields" with Dr. Darwish
- ◆ URB grant "Effect of Nitrogen fertilization on Potato Protection". Oct.1, 2004-Sept.30, 2005. (50%)

Sidahmed M.

- ◆ "Design of a lentil harvester for commercially grown lentils in Lebanon" URB Grant Zurayk R.
- ♦ Understanding Water, Understanding Health: The Case of Bebine. (IGESP Director). IDRC. Value: \$ 340,981.02. Duration: Dec. 27, 04- Dec. 26, 07
- ◆ Regional Training and Knowledge Sharing in Urban Agriculture f-r the Middle East and North Africa 2005-2006. (Project manager). Cities Feeding People Initiative of the International Development Research Center. Value: CAD 471,980. Duration: 2005-2006
- ◆ Livelihoods of Poor Farmers in South Lebanon: Community Supported Agriculture Project. (Project Manager). Mercy Corps/USAID. Value: \$218,020. Duration: May 1, 2004 − October 31, 2005.

- ◆ Provision of Technology Transfer and Extension for Major Irrigation Schemes (Akkar El Bared, Dannyieh, Qasmieh, South Bekaa) Project. (Project Manager). IFAD/World Bank/CDR. Value: \$773,000. Duration: 2002-2004.
- ♦ Provision of Extension Services to Strengthen the Yammouneh Irrigation Systems Rehabilitation Project. Technical backstopping and implementation (Coordinator). In collaboration with the Directorate of Extension, Ministry of Agriculture. Granting Agency: World Bank. Value: \$500,000. Duration: May 1998- Dec. 2004.

SERVICES

The faculty members of LWRS participated in many AUB committees at the Faculty & University level. They also participated in the following workshops to assist in the development of the Lebanese farming community.

Forage improvement production program in Bekaa

Drs. Bashour, Darwish, Nimah, and Sidahmed participated in workshops conducted at AREC. One hundred sixty farmers attended these workshops.

Bashour I.

- ♦ Chairperson of LWRS, FAFS
- ◆ Coordinator of the forage improvement production program
- ◆ Participant in Major Irrigation Schemes Technology Transfer and Extension Project (Ministry of Agriculture/World Bank)
- ◆ Representing FAFS in the Central Research Science Laboratory Committee
- ♦ Member of interfaculty Lab Committee
- ♦ Administrative, Academic and Curriculum, Library and Research Committee and Academic Development Committee
- ♦ Safety Officer, FAFS
- ♦ Supervise the soil and water laboratories, interpret results, give recommendations to farmers on fertilization programs and problem solving.
- Member of Fertilizer Committee, ministry of Agriculture, Lebanon.
- Consultant for FAO in several projects in the region.

Darwish M.R.

- Trainers for the Forage project at AREC, AUB.
- ◆ Consultant to the YMCA-USA, as external evaluator for mid-project evaluation of the SMART Program (Stimulating Markets and Rural Transformation Program, Beirut, January, 2005
- ◆ Trainers for the Integrated Water Management workshop, with manual on the economic assessment of water issue, Attended by 33 Iraqi top and Middle Officials, Amman, Jordan, April, 2005
- ♦ A presentation on "the Role of Universities in Providing technical Support for Cooperatives", a round-table conference on the partnership between the public and private

sectors and cooperative, UNDP, April, 2005

♦ Consultant to the Mercy Corps-Lebanon, as external evaluator for Assessing the economic feasibility of the machinery component of the forage improvement production program, Beirut, June, 2005

Farajalla N.

- ◆ Invited by UNESCO to participate in a workshop on training trainers in Integrated Urban Water Management. Regional Center on Urban Water Management, Tehran, Iran, December 11 13, 2004
- ♦ Member of the Scientific Committee reviewing papers submitted to the First International Conference on Sustainable Urban Wastewater Treatment and Reuse, to be held in Nicosia, Cyprus on 15-16 September 2005
- ♦ Invited by ESCWA and Kuwait Institute for Scientific Research to be a lecturer at the First Training-of-Trainers Workshop on Integrated Water Resources Management in Kuwait. Presented a lecture on IWRM and Agriculture. Kuwait City, Kuwait May 7 − 11, 2005
- ◆ Invited by the Lebanese Ministry of Environment to be a panellist in the water group at the First Expert workshop on A National Environmental Action Plan (NEAP). Program sponsored by the UNDP and the European Commission. Beirut, Lebanon March 17 18, 2005
- Organized and conducted a four-day workshop on integrated water resources management for Iraqi officials. Presented a day-long seminar in this workshop on principles and practices of integrated water resources management. Workshop was sponsored by UNEP-IETC. Amman, Jordan. April 6-9, 2005.
- ♦ Organized and Co-chaired the Symposium on Challenges Facing Water Resources Management in Arid and Semi-Arid Regions hosted by FAFS and FEA in October 2004.
- ♦ Member of the AUB Web-Oversight Committee
- ◆ Advisor to the FAFS- SRC
- ♦ Member Faculty Academic and Curriculum Committee
- ♦ Member of the Faculty Student Affairs Committee
- ♦ Department Representative to the Library (Library Liaison)
- ♦ Department Representative to Wing-B building renovation
- ♦ Member of the Advisory Committee for the review of the Lebanese National Action Programme for Combating Desertification
- ♦ Served as a Consultant to:
 - > Ministry of Environment
 - > ESCWA/AWARENET
 - > UNESCO Regional Centre for Urban Water Management
 - > Arab Resources Development
- ♦ Served on a committee developing a Water Resources Studies program that is common between FAFS and FEA

Nimah M.N.

- ♦ Interfaculty Financial Committee
- ♦ Workshop on water supply and demand in Agriculture, UNEP-AUB contract. Amman Jordan
- ♦ Chairman of senate ad-hoc committee on promotion
- ♦ University Financial Committee
- ◆ Advisor to the YMCA in their rural development project
- ◆ Participated in Major Irrigation Schemes Technology Transfer and Extension Project (Ministry of Agriculture/World Bank)
- ◆ Participant in the "Forage Development Program" in Bekaa'
- ♦ Co-Chairman of the first Symposium on Water Resources Management in Arid and Semiarid Areas.
- ♦ Member of the new Joint Program with FEA of the new MSc Program "water resources studies"
- Examiner on PhD thesis invited by the De L'Institut National Agronomique Paris-Grignon.
- Member of the Editorial and Scientific committee, Jordan Journal for Agricultural Sciences.
- Member of the Editorial and Scientific committee, Lebanese Science Journal.

Sidahmed M.

- ◆ Refereed two articles for the Biosystems Engineering Journal: The Official Journal for the European Society of Agricultural Engineers
- ♦ Member of the AUB Senate Committee for The Student Affairs
- ♦ Member of FAFS Student Affairs Committee
- ◆ Participated in the AHEAD Workshop for Training Iraqi Professors (4 days workshop)
- ◆ Trained farmers at AREC on Use of Machinery for Sustainable Forage Production (4-5 sessions)
- ♦ Member of Thesis Advising Committee

Zurayk R.

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

ANALYSIS OF SOIL & WATER SAMPLES

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.

The revenue obtained from this activity was about 3,700,000 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.

Equipment	Kjeldahl Digester and Kjeldahl Distillator	Aquamate Spectro- photometer	Flame Photometer	Atomic Absorption Spectro-photometer	Microwave Digestor
Analysis / Measurement	Nitrogen / Protein	Phosphorous and Nitrate	Potassium, Sodium and Calcium	Macro and Micronutrients	Plant tissue and soil digestion
Number of Sample	360	380	680	1322	200

FUTURE LWRS NEEDS & 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 the newly ordered equipment for LWRS labs. The LWRS received microwave digester, C:N analyzer, flame photometer, spectrophotometer, Kjeldahl unit and other expensive lab equipment was ordered. To be able to use these high tech equipment efficiently, obtain correct results and maintain them properly, a capable and well-trained person should be hired on full time basis.
- 3- Add to the faculty members, at the LWRS department, a soil microbiologist to complement the existing activities of the department.

DEPARTMENT OF NUTRITION AND FOOD SCIENCES

2004-2005

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, Assistant professor in Nutrition and Dietetics, joined the Department on September 15, 2004.

Dr. Ammar Olabi, Assistant 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.

PERSONNEL

• Academic Personnel

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)

• Non Academic Personnel

Samir Touma, Associate Technician Ghassan Kadi, Associate Technician Arsine Derboghasian, 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 OF NFSC FACULTY MEMBERS

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 University 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 OF NFSC FACULTY MEMBERS

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.December10, 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.

ACTIVITIES OF NFSC FACULTY MEMBERS: CONFERENCES, MEETINGS AND WORKSHOPS

Dr. Hwalla

- Participated in the "3rd 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. April15-16, 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

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, Mouïn 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

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.

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. 1st edition. 2005. Publisher; XanEdu.

UNIVERSITY AND FAFS COMMITTEES

Dr. Hwalla

- Universit y 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

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
UG-ND	340 new	100* new	18 new
	41transfer	27* transfer	14 transfer
UG-FSM	91 new	129*new	54 new
	13 transfer	7* transfer	7 transfer
NUT-GRAD	24	23	3
FT-GRAD	18	17	6

^{*(}as 1^{rst}, 2nd, 3rd etc choice)

SPRING 2004/2005

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

^{*(}as 1^{rst}, 2nd, 3rd etc choice)

FALL 2005/2006

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

UNDERGRADUATE AND GRADUATE STUDENT ENROLLMENT IN NFSC DEPARTMENT

UG-ND

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

UG-FSM

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

Graduates

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

UNDERGRADUATE AND GRADUATE STUDENT GRADUATION FROM NFSC DEPARTMENT

Undergraduate

	2004/2005
ND	63
FSM	8
TOTAL	71

Graduate

	2004/2005
Nutrition	7
Food Technology	3
TOTAL	10

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

• 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

	Student	Major	Advisor
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

	Student	Major
1.	Rana Seif	Nutrition
2.	Dalia Barakat	Nutrition
3.	Rajwana Natafgi	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

	Student	Major
1.	Samira Sidani	Food Technology

GRADUATE ASSISTANTS IN NFSC DEPARTMENT

Fall 2004/2005

	1 411 200 1/2000			
	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

<u> </u>	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

2004-2005

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 2004-2005 are 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 Baalbaki, Riad, Ph-D, Associate Professor of Plant Physiology 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 Makhzoumi, Jala, Ph-D, Associate Professor of Landscape Saad, Adib, Ph-D, Professor of Plant Pathology Talhouk, Salma, Ph-D, Associate 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., part-time*
- Hanna, Lucia, M.Sc., full-time

-

¹ Periodic paid research leave (July 1, 2004-June 30, 2005) at University of Florida, Gainseville

^{*} On grants

Graduate Assistants

- Abbas, Hala
- Abi Ghanem, Rita
- Atamian, Hagop
- Attalah, Shadi
- Berro, Bashar
- Dagher, Rachel
- Dandache, Layal
- El Rassy, Inaam
- Ghadban, Elias
- Modad, Nadine
- Nehme, Maya

Non-Academic Perosnnel

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
Fall				
Undergraduate	178 (+65 LS)	10	1	1 tutorial
Graduate	12	2	1	2 tutorials 1 Seminar Thesis
Spring				1110515
Undergraduate	174 (+72 LS)	13	3	0 tutorial
Graduate	11	2	1	1 seminar Thesis
<u>Summer</u>				
Undergraduate	85 (+29 LS)	1		0 tutorial
Graduate	6			1 tutorial
				Thesis

2. No. of graduate students enrolled and graduated

No. of students

Fall

Enrolled 3 (Plant Science), 9 (Plant Protection)

Graduated 3 (Plant Protection)

Spring

Enrolled 3 (Plant Science), 7 (Plant Protection)

Graduated 1 (Plant Protection)

Summer

Enrolled 2 (Plant Science), 4 (Plant Protection)

III. RESEARCH AND PUBLICATIONS

1. Research Projects with Main Investigator(s)

- Development of a regional viral indexing and certification program for plant propagation material in the Middle East. Dr. Y. Abou Jawdeh.
- Breeding of pickling cucumber for resistance to *Cucurbit Yellow Stunting Disorder Virus* (CYSDV). Dr. **Y. Abou Jawdeh.**
- Development of tomato with combined resistance to TYLCV using virus derived resistance and molecular assisted breeding. Dr. Y. Abou Jawdeh.
- Diagnosis characterization and control of phytoplasma and viroids infection food crops in the Middle East. Dr. Y. Abou Jawdeh.
- Identification and evaluation of local strains of fungi and viruses as biological control agents of pests of major economic significance to Lebanese Agriculture. Dr. Y. Abou Jawdeh.
- Pomace and amurca as an organic approach for *Orobanche ramosa* control in potato and tomato. Dr. M. Haidar.
- Employment creation and income generation through the development of micro and small agro-industries in South Lebanon. Dr. **M. Haidar** and Mr. Rami Ollaik.
- Integrated Management of Cedar Forests in Lebanon in Cooperation with Other Mediterranean Countries. Dr. N. Kawar.
- UN-HABITAT Higher Advisory Council for the Reconstruction of Iraq: Researching the State of Iraqi Cities. Dr. M. Makhzoumi.
- Speciation and vegetative compatibility grouping of Verticillium populations in Lebanon. Dr. A. Saad.
- Disease forecasting for the management of epidemic diseases on apple and potato in Lebanon. Dr. A. Saad.
- Pathogenesis and histological manifestations of *Pseudomonas savastanoi* on buckthorn, myrtle and olive. Dr. **A. Saad**.
- The health status of imported seed potato tubers. Dr. A. Saad.
- Survey and Identification of the wild mushrooms of Lebanon. Dr. A. Saad.
- Management of downy mildew disease of cucumber under organic production systems. Dr.
 A. Saad.
- Bioprospecting in the Middle East. Dr. S. Talhouk.
- A Holistic Landscape Approach to Biodiversity Use in Lebanon: Partnering with landowners. Dr. S. Talhouk.
- Agronomic studies on safflower. II. N fertilization and supplementary irrigation. Dr. S. K. Yau.
- Introduction of saffron for the Bekaa. I. Selection and agronomic studies. Dr. S. K. Yau.

• A comparison of 2-phase barley-based rotation for nutrient recycling, grazing, lamb fattening, and feed production. Dr. S. K. Yau.

2. Articles Published

- **Abou-Jawdah Y.,** Sobh H., Cordahi N., Kawtharani H., Nemer G., Maxwell D.P. and Nakhla M.K. 2004. Immunodiagnosis of *Prune dwarf virus* using antiserum produced to its recombinant coat protein. Journal of Virological Methods: 121: 31-38.
- **Abou-Jawdah, Y.,** Wardan R., Sobh H., and Salameh A. 2004. Antifungal activities of selected Lebanese wild plants, against plant pathogenic fungi. Phytopathologia Mediterranea: 43: 377-386
- **Abou-Jawdah, Y.** 2006. Tissue- blot Immunoassay a Rapid Method for Virus Detection in Screening Tomato Lines for TYLCV Resistance. (Accepted in Acta Hort. June 2005)
- **Haidar M.,** Iskandarani N., Sidahmed M and Darwish R. 2005. Susceptibility of *Orobanche ramosa* and potato tolerance to rimsulfuron. Crop Protection 24: 7-13.
- **Haidar M.**, Sidahmed M. M, Darwish R and Lafta A. 2005. Selective control of *Orobanche ramosa* in potato with rimsulfuron and sub-lethal doses of glyphosate. Crop Protection 24 (8): 743-747.
- Sidahmed M., Awadalla H. and **Haidar M.** 2004. Symmetrical multi-foil shields for reducing spray drift. Biosystems Engineering 88: 305-312.
- M. Temsah, Hanna L., and **Saad A.T**. 2005. Anatomical studies on the pathogenesis of *Pseudomonas savastanoi* on *Rhamnus alaternus* (Accepted in Forest pathology, September 2005).
- **Yau, S. K**. 2004 Yield, agronomic performance, and economics of safflower in comparison with other rainfed crops in a semi-arid, high-elevation Mediterranean environment. Experimental Agriculture 40: 453-462.
- **Yau, S. K.** and Nemah M. 2004 Spacing effects on corm and flower production of saffron (Crocus sativus). Lebanese Science Journal 5: 13-20.

3. Books or Chapters in a Book

- **Abou-Fakhr Hammad, E.M.** Theme title: "Botanicals: An Alternative in Pest management" Book Title: CROPS: Growth, Quality & Biotechnology, Current Status and future prospects, Ramdane Dris (Ed.). WFL Publisher, Helsinki, Finland (In Press).
- **Abou-Fakhr Hammad, E.M.** 2004. "Insect and Mite Pests and their Natural Enemies (Parasitoids and/or Predators) in the Middle East" and "Chinaberry, Melia azedarach L., a Biopesticidal tree". Encyclopedia of Entomology, John L. Capinera (Ed.). Kluwer Academic Publishers, Hingham (MA), USA. Pages: 497-504 & 1663-1680.
- Nemer, N., G. Demolin, **N. Kawar**, L. Kfoury and E. Zakhour. 2005. Monitoring of the new cedar web-spinning sawfly, *Cephalcia tannourinensis n.sp.* in cedar forests of Lebanon. *In:* Entomological Research in Mediterranean Forest Ecosystems, Eds. F. Lieutier & D. Ghaioule, INRA Publication, France pp. 247-255.
- Yau, S. K., Bounejmate M., Ryan M., and J., Nassar, A. 2004. Sustainable Barley-legumes Rotations for Semi-arid Areas of Lebanon. In Rao, S.C. and Ryan, J. (eds.) Challenges

and Strategies for Dryland Agriculture. ASA, CSSA, and CSSA, Madison, USA. CSSA Special Publication 32. pp. 219-227.

4. Abstracts

Nemer, N., L. Kfoury, G. Demolin, B. Frerot and **N. Kawar**. Population dynamics and efficacy of ULV aerial application of diflubenzuron against the cedar web spinning sawfly *Cephalcia tannourinensis* Chevin, Lebanon. XXII International Congress of Entomology, August 15-21, 2004, Brisbane, Australia

Makhzoumi, J.: Aligning Campus Sustainability and Historic Landscapes Preservation. Poster presentation 5th Space Syntax Conference, Rotterdam, The Netherlands, June 2005

5. Master's Theses

- 1. Eid, Sahar. 2005. Evaluation of Cucurbit Germplasms for Resistance to *Cucurbit Yellow Stunting Disorder Virus*. Advisor: Dr. Y. Abou Jawdeh.
- 2. Fahed, Serge. 2005. Management of Cucumber Downy Mildew under Organic Production Systems. Advisor: Dr. A. Saad
- 3. Marouf, Maysan. 2005. Assessing the Current Use and Significance of Wild Edible Plants Traditionally Gathered in Lebanon: An Ethnobotanical Study. Advisor: Dr. S. Talhouk.
- 4. Nehmeh, Maya. 2005. Identification of Semiochemicals Found in Lebanese Cedar Trees and their Interaction with the Insect Pest, *Ernobious sp.* Advisor: Dr. N.S. Kawar.
- 5. Selwan, Rhea. 2005. Aesthetic Preferences and Nature Conservation: A Case Study in Rural South Lebanon. Advisor: Dr. J. Makhzoumi.
- Baydoun, Mohammad Abed Al-Rahman. 2005. Ecotourism as an Alternative Development Option for Rural Sites: The Case of Kaa Al Rim in the Sannine Area. Co-Advisor: Dr. J. Makhzoumi.

IV. Professional Activities and Services

1. Scientific Meetings and Conferences

Dr. E. Abou Fakhr Participated in the conference of Entomological Society of America - Eastern Branch, and presented an oral presentation entitled: "Bioactivity of selected indigenous medicinal plant species against *Bemisia tabaci* and chemical isolation of one bioactive extract", held in Harrisburg, Pennsylvania, USA, March 20-22, 2005.

Dr. Y. Abu Jawdeh attended the following meetings:

- a) The American Phytopathologists Society meeting, held in Texas, USA, August 2005.
- b) The VV meeting of the EUCARPIA Tomato Working group and presented a poster entitled "A PCR –based method for screening tomato lines for resistance to race two of fusarium oxysporum f.sp. lycopersici", held in Bari, Italy, September 20-24, 2005.

Dr. Y. Abou Jawdeh spent 45 days (June 30 – August 15, 2005) at the University Of Wisconsin- Madison USA, as a long-term Faculty Development Grant

Dr. M. Haidar participated in the 1st International Weed Science Seminar and Biennial Conference of the Indian Society of Weed Science (ISWS), where he chaired one session and presented a lecture entitled "Ecophysiological approaches for weed management", held in Kolkota, India, January 21-24, 2005.

Dr. A. Husain participated in the "CSLA Congress 2005 EXPOSED" conference and presented an oral presentation entitled: "The Islamic Garden: Potential Applications in Healthcare" held in Winnipeg, Manitoba, Canada, August 17-20, 2005.

Dr. J. Makhzoumi participated in the following Conferences:

- 1. The 9th Conference of the International Association for the Study of Traditional Environments (IASTE), and presented a paper entitled "The Contested Landscape of Ebel-es-Saqi: A Traditional Rural Landscape in a Post Traditional World", held in Sharjah, UAE, December 15-18, 2004.
- 2. The World Urban Forum and presented a paper entitled "Greening Iraq: A sustainable Participatory Approach to Redevelopment", held in Barcelona, Spain September 2004.
- 3. The 5th Space Syntax Conference and presented a poster entitled "Aligning Campus Sustainability and Historic Landscapes Preservation", held in Rotterdam, The Netherlands, June 2005

Dr. S. Talhouk attended the following meetings:

- 1. Terra Madre world meeting of food communities, held in Turin, Italy, October 19-24, 2004.
- 2. The Future Role of Botanic Gardens in the Middle East and North Africa, held in Jordan, March 19-20, 2005.
- 3. The Conservation of Biodiversity through Ecotourism projects, held in Jordan, March 21-23, 2005.
- Ms. J. Weltzien participated in the 36th annual meeting of the Environmental Design Research Association Conference, held in Vancouver, Canada, April 27 May 1, 2005.

Dr. S. K. Yau attended the following meetings and conferences:

- a) The 4th annual meeting of the tomato breeding project and the workshop on gene silencing, held in Jordan, February 4-10, 2005
- b) The 6th International Safflower Conference and gave an oral presentation entitled "Yield increase of barley following safflower", held in Instanbul, Turkey, June 6-10, 2005.
- Dr. S. K. Yau spent two months (July1 August 31, 2005) at the University of Mannitoba, Canada, as a long-term Faculty Development Grant.

2. Workshops

Dr. Y. Abu Jawdah attended the workshop on gene silencing and the TYLCV group meeting, Jordan, February 5-12, 2005.

Dr. J. Makhzoumi attended a workshop on the Mediterranean Landscape, Reading University, UK, April 25-26, 2005.

Dr. S. Talhouk participated in a workshop on "Medicinal and aromatic plants" FAO, Hazmieh, Lebanon, May12, 2005.

Dr. S. Talhouk organized and coordinated the following local workshops:

- a) Preparation a draft addendum of the National Biodiversity Strategy and Action plan. Faculty of Agriculture, AUB. June 28th 2005.
- b) Biodiversity Awareness Competition: "Beiatouna Baitouna" a Partnership with Schools Towards Biodiversity Conservation. UNESCO, Beirut. June 4th 2005.

- c) Biodiversity Awareness Workshop II: "Beiatouna Baitouna" a Partnership with Schools Towards Biodiversity Conservation. Faculty of Agriculture, AUB. April 2nd 2005.
- d) Biodiversity Awareness Workshop I: "Beiatouna Baitouna" a Partnership with Schools Towards Biodiversity Conservation. Issam Fares Hall, AUB. February 26th 2005.
- e) "Provisions for the Implementation of Key Components of the Cartagena Protocol on Biosafety". In collaboration with the Ministry of Environment (MOE) and the United Nations for Development Program (UNDP). Movenpick Hotel & Resort in Beirut, December 17, 2004.

Ms. Julie Weltzien participated in the following workshops:

- a) A workshop at the Ecole National Superieur du Paysage in Versailles, France, February 4 to 8, 2005.
- b) The "International workshop on Gardens and Landscape" in Padula / Italy, September 21-25, 2005

3. Miscellaneous Services

Dr. Abou Jawdeh participated in the following:

- a) Farmer advising on Pest Management
- b) Training of engineers of the Ministry of Agriculture on IPM of grape
- c) In over 8 farmer workshops/presentation on IPM on specific crops.

Dr. Haidar participated in the following:

- a) Lecturing on Sustainable Agriculture for Forage Growers: Weed Management, AREC, AUB, Beqaa, Lebanon. Sponsored by USAID and USDA.
- b) Training women on integrated weed management in *Origanum syriacum*, Ras-Al-Ain, South Lebanon. Sponsored by YMCA as part of women development in S. Lebanon.
- c) Training women on integrated weed management in roses nursery, Bater, Mount Lebanon, sponsored by YMCA as part of women development in El-Shouf area, Lebanon.
- d) Lecturing on Weed Management in Potato and Grapes in Lebanon: Training the Trainers. Sponsored by the Ministry of Agriculture and FAO, Syndicate of Engineering, Beirut, Lebanon.

Dr. A. Husain gave a lecture entitled "A Therapeutic Garden for Lebanon." CAMES, AUB, April 26, 2005.

Dr. A. Husain gave a lecture entitled "Healing Gardens: Restoring the connection with Nature", Beirut Garden Show, May 19, 2005.

Drs. N. Kawar and A. T. Saad were appointed, by the Minister of Agriculture, as members of the National Committee on Pesticides Regulations and Trade.

Dr. Saad participated in training sessions, for Agricultural Engineers of the Ministry of Agriculture, on the management of diseases on potatoes and grapes in Lebanon. Sponsored by the Ministry of Agriculture and FAO.

Dr. Saad lectured on "Fungal and bacterial diseases and IPM of pome and stone fruit trees" as part of a graduate program entitled "Integrated Pest Management of Mediterranean Fruit Tree Crops", at the International Center for Advanced Mediterranean Agronomic Studies (ICAMAS), Valenzano, Italy, April 26-30, 2005.

Dr. Saad lectured on "Genetic Basis of Streptomycin Resistance in Bacterial Plant Pathogens" at the Atomic Energy Commission of Syria, Damascus, Syria, September 10-11, 2005.

Dr. Saad acted as consultant for the UNIDO-MOE alternatives project for Methyl-Bromide replacement and integrated management of strawberry cultures in Lebanon.

Dr. S.K. Yau gave a training session for farmers and members of the Deir al Ahmar Women Association (WADA) on how to use the new oil expeller to press for oil from the safflower seeds, October 2004.

AGRICULTURAL RESEARCH AND EDUCATION CENTER

2004-2005

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 6, 2005 to complete the spring semester. Only AGRL III students continued through the Summer as scheduled.
- Research trials on organic vegetables and free range table bird production supported by Green Line Association were completed.
- Vegetable variety trials, supported by UNIFERT s.a.l. started and ended as scheduled.
- Completed the project "Expansion of the Existing Pilot Apple Nursery" supported by INDEVCO.

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 to AREC Cafeteria, AUB Pilot Plant, and AUH Dietary Department.
- Continued providing surplus fresh cow milk to Ta'anayel Center (Abella).
- Continued producing free range table eggs.
- Prepared seedbeds for winter crops 2005-2006.

Completed Projects:

- 1. Work on rehabilitation of creamery.
- 2. Conducted soil investigation and structural assessment in AWD Bldg.
- 3. Conducted a study on the cracks of workshop Bldg.
- 4. Repaired Canal of Sbat River adjacent to AREC and constructed a reinforced concrete bridge over the canal between block A and B through PP Department.

New AREC Staff

- Mr. Ali, Ibrahim appointed as Animal Attendant, on Feb.1, 2005
- Mr. Yazbek, Hussein appointed as Animal Attendant, on Feb.7, 2005
- Mr. Haidar, Naji appointed as Assistant Mechanic, on Sept. 5, 2005.

Activities

- AREC students held the Aggie Olympics on May 14, 2005. Present were Dean Daghir and FAFS faculty and staff members with their families.
- FAFS/UNIFERT Vegetable Trial Field Days. August 17&18, 2005.
- Sweet Corn Day. Aug. 14, 2005, (500 participants).

Visitors

- Dean Daghir on regular basis.
- Students of Eastwood College.
- New Students Orientation Program on Sept. 24, 05.
- Dr. Richard Taylor from Earth University.
- Several Faculty and old graduates visited AREC on different dates.
- Seventy agricultural scientists from Dohuk and Mosul Universities Iraq, (AHEAD Project) February 26, 2005
- Faculty members from AUB "Architecture and Design" department, March 16, 2005
- Mrs. Sheila Bernson (ASHA) visited the newly rehabilitated creamery April 13, 2005.
- Schneller school students, March 19, 2005.
- Deans and Faculty members from different Iraqi universities on September 29, 2005.
- Lebanese Scouts Association on different dates.

Visit of AUB Trustees

Dean and Mrs. Daghir accompanied by AUB Trustees Dr. Thomas Q. Morris/Chairperson, Mrs. Eileen F. O'Connor/Secretary, HE Mrs. Leila A. Sharaf, Dr. William R. Coffman, and Mr. Farouk K. Jabre visited AREC on May 7, 2005 and dined in student cafeteria.

Agricultural Higher Education and Development Project (AHEAD)

- Two visiting professors Drs. Imad Al-Deen Dahal and Nazar Taha, and two research fellows Mr.Majid Sabri and Miss Essra Tewfeek, all from Mosul University Iraq, resided at AREC and conducted poultry experiments.
- Mr. Shaker Suleiman research fellow from Dohuk University Iraq conducted a trial on "Sheep digestibility".

Workshops

- Several Forage Production Workshops to Lebanese farmers.
- Two FAO Workshops on Dairy Technology (Lebanese Dairy Product Producers).

Miscellaneous

- The AREC creamery, recently rehabilitated by AREC and furnished by ASHA grant 1336-835, started producing a variety of dairy products.
- Sold cull animals on different dates
- Started installing solar hot water system for AMD and Cafeteria and renovating the mechanical room of AMD and cafeteria Boilers.
- Received a new refrigerated Truck for transporting dairy products to AUB Campus.
- Installed A.C. units at men and women dormitories.
- The Director invited AREC employees and workers for an Iftar dinner (Nov. 3, 2004).
- EHSRM Dept. provided AREC with fire control equipment.
- Received an Automatic weather station unit from AUB.
- Installed a new Carbon Steel Separator (equipped with a compact motorized ball valve) for domestic water filtering treatment.
- Mr. Hazem Yaghi, Physical Plant Supervisor, attended a training session at AUB on inventory of AREC equipment.

- Mrs. Mariam Ezzeddine (AREC Nurse) Attended several sessions on use of computer and blood drawing.
- Mr. Ziad Jaber, Research Assistant at AREC, attended a training session on milk hygiene and cheese making at "Centre Fromager de Carmajane", France.
- Trained physical plant employees on safe handling and replacing existing underground asbestos irrigation pipes. All necessary safety tools were provided.

INTER-FACULTY ENVIRONMENTAL SCIENCES PROGRAM

Ecosystem Management

2004-2005

R. Zurayk - Coordinator

The present annual report covers the academic year 2004-2005

I. Courses offered and students enrollment

A total of four courses were taught, covering some aspects of ECOM. A total of **sixteen** students were enrolled during 2004-2005 in Ecosystem Management (ECOM). Among these students, **six** were newly enrolled; the others were continuing. **Five** students graduated this year.

Course Code	Course description	Semester	Faculty Members
ENSC 630	Natural Resources Management	Spring 04-05	Dr. R. Zurayk
ENSC 631	Agricultural Pollution and	Spring 04-05	Dr. N. Kawar
	Control		(Coordinator), &
			Dr. I. Bashour
ENSC 690	Seminar in Environmental	Spring 04-05	Dr. R. Zurayk &
	Sciences		Dr. M. El Fadel
ENSC 202	Environmental & Sustainable	Fall 04-05	Dr. R. Zurayk &
	Development		Dr. Shadi Hamadeh

II. Meetings, Workshops and Academic activities

- a- The IGESP Program participated in the AUB Sustainability Forum that was held on April 8, 2005 in the West Hall Room 400 from 10:00 a.m. to 6:00 p.m.
- b- The IGESP Program participated in the "Lebanese Culinary Week: Global Week of Action for Trade Justice" that was held between April 10-16, 2005.
- c- The Main Gate published an article on the Environment Program at AUB, it was entitled "Environmentally Sound" on Winter 2004, Vol.II, No. 1. This article highlighted the missions of the program not only as an academic department that issues degrees, but also students and faculty "practice what they preach" by getting involved in community-based green initiatives and regional research through active components: courses of study, research initiatives, and projects being realized by IGESP program.
- d- Attending the Ecohealth MENA workshop organized by IDRC in Egyot-Cairo and that was held from January 29, 2005 till February 1, 2005
- e- Participating to the workshop organized by CIRAD on "Agrofood & Industrial Agriculture" in Montpellier that was held from June 6-10, 2005

III. Other activities

Registering the ECOM major in the New York State Department of Education, an external evaluator is required and who is coming to Lebanon in July 2005 to evaluate the program.

SECTION C REPORTS OF FAFS STANDING COMMITTEES

THE ADMINISTRATIVE COMMITTEE

2004-2005

Membership of the Committee:

- Dr. N. Daghir (Chairperson)
- Drs. I. Bashour, S. Hamadeh, N. Hwalla and A. Saad.

The Committee held four meetings during the academic year 2004-2005.

During the year, routine business was handled by the committee which included appointments of departmental graduate assistants; Summer contracts for faculty members who taught during Summer 2005; budget issues especially major equipment and various matters related to AREC budget as well as space allocated to the various departments at FAFS . New issues were discussed during the year such as the new system on Faculty Workload, Academic integrity, Library Journal lists and evaluation of faculty members by Chairpersons of departments.

Prepared by

Wafa Khoury Secretary

THE ADVISORY COMMITTEE

2004-2005

Membership of the Committee:

- Dr. N. Daghir (Chairperson)
- Drs. E. Barbour, S. Hamadeh, N. Hwalla, I. Toufeili, S.K. Yau and R. Zurayk.

Dr. N. Hwalla, professor of NFSC Dept., joined the Committee as a new member, replacing Dr. Y. Abou Jawdah. Dr. Yau continued as the secretary for the second year. During the academic year, the Committee held 12 meetings (same as 2003-04) and voted on 94 motions (28 more than in 2003-04). From December 2004 onwards, minutes of the meetings were copied to the Provost in addition to the President. Following the new AUB procedure, the meeting on promotion of a faculty member was attended by extra four members (one due process monitor and three AUB professors from outside the Faculty). The important issue that was discussed in length was '7-year contracts'.

Prepared by S.K. Yau

THE ACADEMIC & CURRICULUM COMMITTEE

2004-2005

Membership of the Committee:

- Dr. N. Daghir (Chairperson)
- Drs. I. Bashour, S. Hamadeh, N. Hwalla, A. Saad (As FAFS Chairpersons)
- Drs. N. Farajalla & J. Weltzien (As elected members)
- Dr. M. Haidar (Undergradaute Agr. Coordinator)
- Dr. O. Obeid (Undergraduate ND Coordinator)
- Dr. R. Tannous (Undergraduate FSM Coordinator)

The Committee met 10 times during the period of October 1, 2004 until September 30, 2005, and voted on 156 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. 26 students from all undergraduate programs were continued on probation.
- 2. 12 students from all undergraduate programs were dismissed
- 3. 2 students from all undergraduate programs were removed from probation.
- 4. 153 students from all undergraduate programs were placed on the Dean's Honor List.

B. AREC Program

24 students were eligible to go to AREC. 18 from Agriculture and 6 from Landscape.

C. New Procedure for Registration

The Committee discussed the new procedure for registration in which students are now required to obtain from their advisors their alternative pin; this obliges them to see their advisor and register properly. Also the committee discussed students that are unable to transfer and have been taking courses outside their major. It was decided that such students should be dropped from the Faculty.

D. Nutrition Curriculum

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

- 1. Replacing 5 credits of suggested electives with 5 credits of humanities electives to meet university liberal arts requirements.
- 2. Deleting BIOL 202 (4 cr.) from the curriculum; 1 credit will be used for humanities electives; 3 credits for NFSC 292 (Diet Therapy in Inborn Errors of Metabolism) which will be increased from 2 to 3 credits.

E. Replacing Social Science Course in Food Science

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

- 1. Replace 6 credits of Social Science in the second semester of FSM II with NFSC 272 Introduction to Food Service and Industries (3 cr.)
- 2. Include NFSC 272 in the list of core courses in the course description section of the FSM curriculum and delete it from the list of elective courses.

F. Recommendation for Graduation

The Committee recommended to the Faculty 14 students for the Degree of B.Sc in Agriculture and Diploma of Ingenieur Agricole, 15 students for the Degree of B.Sc. in Landscape Design and Eco-Management and Diploma of Ingenieur Agricole, 8 students for the Degree of B.Sc. in Food Science and Management and 64 students for the Degree of B.Sc in Nutrition and Dietetics.

Prepared by Rabia Koubayssi

THE ADMISSIONS COMMITTEE

2004-2005

The elected members of the Admissions Committee during the period of 2004-2005 were the following: Dr. Nuhad Daghir (Chairman), Drs. Elie Barbour (Secretary), Riad Baalbaki, Malek Batal, and Mustapha Haidar.

This Committee met 3 times and mostly in the presence of the Director and Associate Director of admission, Mr. Ziad Mounayar (SRC), and Miss Tharwat Haddad (by invitation). 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	53	36
UG AGRI	11	1
UG LDEM	18	8
UG FSMT	25	19

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.

Prepared by Tharwat Haddad

THE GRADUATE STUDIES COMMITTEE

2004-2005

The members of the Graduate Studies Committee for the year 2004-05 were: Dean Daghir (Chairman), Drs. Baalbaki (Graduate Coordinator), Batal, Obeid, Sleiman, Talhouk, 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 seven meetings during 2004-2005 and voted on 95 items. Actions taken during these meetings included the following:

- 1. Accepted 68 applicants for the first semester, 2004-2005. Twelve applicants were not accepted. Of the 68 accepted applicants 28 registered for the first semester. Accepted 13 applicants for the second semester, 2004-2005 and 11 registered. Six applicants were not accepted.
- 2. Approved the program of study and thesis titles of 27 students.
- 3. Three students were removed from probation effective February 2005 and five students were removed from probation effective July 2005.
- 4. Acted on a number of petitions submitted by students.
- 5. Recommended awarding the M.Sc. degree to 4 students effective October 2004, 12 students effective February 2005 and 8 students effective July 2005 in the various majors.
- 6. Two new graduate courses were approved by the Committee namely, NFSC 351 Food Safety Contaminants and Toxins and PLSC 333 Genetic Resources and Improvement of Agronomic Crops.
- 7. The NFSC department recommended to the committee changes in the Nutrition program which are to decrease the number of required graduate courses from four to three. To consider NFSC 306 (Community Nutrition: Research and Intervention), NFSC 308 (Advanced Therapeutic Nutrition) and NFSC 312 (Sports Nutrition) as elective courses. The committee decided that since there was no policy concerning such an issue it was the decision of the department to make the modifications.
- 8. The Committee discussed the issue concerning graduate education and research/past and present. The committee decided that the department chairpersons provide a proposal for a full program for the respective MS majors in their department.
- 9. Approved and recommended to the faculty to consider AGRL 301 Statistical Methods in Agriculture as a 3 credit course instead of 4 and also recommend that a new course namely AGRL 303 Special Topics in Agriculture Statistics be a one credit "as a lab" and be considered as an elective course.
- 10. Approved the courses that are to be calculated in the average of FSM students applying to the graduate program.
- 11. Approved receiving graduate applications for the fall term admission by May 31st.

Prepared by Rabia Koubayssi

THE RESEARCH COMMITTEE

2004-2005

Membership of the Committee

Dr. Imad Toufeili (Chairman).

Dr. Isam Bashour (Secretary).

Dr. Ragy Darwish

Dr. Omar Obeid.

Dr. Sui Kwong Yau (Member of Committee and Faculty Representative on the University Research Board).

Annual Report

Research Proposals submitted to the University Research Board (URB)

Research proposals submitted for funding by the URB were evaluated by the Committee members and external referees. Referees' reports were solicited from the faculties of Arts & Sciences, Engineering and Architecture, and Medicine at AUB, the Lebanese American University, and Belgium, Greece, Qatar, Jordan and Syria. Apart from proposals submitted by faculty members in the Landscape and Eco-management programs that were scored according to the score sheet used by the Faculty of Engineering and Architecture, research proposals were scored according to the scoring system developed and used in FAFS. 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 Committee approved to give high priority for proposals submitted by new faculty members and assistant professors. Proposals submitted by associate and full professors were accorded moderate and low priorities irrespective of their scores. Two proposals were given low priority for funding because they address similar dimensions of agricultural practices for the same crop for more than three years.

Based on deliberations of the Committee, proposals were ranked and classified as being of high priority, moderate priority and low priority for funding. Details of proposals submitted to the URB are presented in Table 1.

Table 1. Proposals submitted to the URB

Investigator (Rank)	Co-investigator	Title
High Priority		
1. Husain, A. Assistant Professor	Heath, R.	Educational Garden, Lebanon (New)
2. Weltzein, J. Assistant Professor		Moments of Deviation. An Investigation of the Potentials of Vacant Lots in Beirut (New)

3. Ghaddar, S. Assistant Professor		Prospective Evaluation of the Effects of Calcium Intake on Weight Loss and Body Composition in Lebanese Adults (New)
4. Kassaify, Z. Assistant Professor	Toufeili, I.	The Effects of Nisin and Natamycin on the Keeping Quality of Kashta and Nisin as Inhibitor of <i>Listeria Monocytogenes</i> at Refrigeration Temperatures (New)
Moderate Priority		
5. Haidar, M. Associate Professor	Sleiman, F.T.	Effects of Rumen Digestion by Sheep on Germinability and Viability of Common Weed Seeds of Lebanon (New)
6. Hwalla, N. Professor	Hussein, M. Jamali, F.	Effect of High Protein Diet on PYY and Ghrelin Levels in Subjects Post- gastric Banding (New)
7. Toufeili, I. Professor	Ghaddar, T.	Determination of Sensory Thresholds of Selected Constituents of Thyme (<i>Thymus vulgaris</i> L.) and their Antioxidant Potential in Edible Oils (New)
8. Barbour, E. Professor	Khattar, M. Talhouk, R.	Epidemiology and Control of newly emerging Avian Influenza Outbreaks in different Poultry Types of Lebanon (New)
9. Bashour, I. Professor	Yanni, S.	Non Nutritive Trace Elements Content of Synthetic Fertilizers in Lebanon (New)
10. Hamadeh, S. Professor	Barbour, E.	Some Physiological, Biochemical and Hormonal Changes in Water Stress Dry Awassi Ewes supplemented in Vitamin C (New)
11. Obeid, O. Associate Professor	Hwalla, N. Azar, S.	Hepatic Fuel Partitioning of Copper Deficient Rats Following Starch and Fructose Manipulation of the Diet (New)
Low Priority		
12. Yau, S.K. Professor	Nimah, M.	Agronomic studies on safflower. III. Optimal seeding rate for safflower under different moisture conditions in the Bekaa Plain (New)
13. Nimah, M. Professor	Bashour, I. Toufeili, I. Abou Fakhr Hammad, E.	Olive Yield as Affected by Supplemental Irrigation and Split Fertilization and Pest Management (Renewal)

Periodic Paid Research Leaves

The committee processed applications for periodic paid research leaves, during Fall 2004-2005, submitted by Drs. Malek Batal, Jala Makhzoumi and Ragy Darwish.

Dr. Batal's leave involves release from teaching duties to pursue research activities and management of an IDRC-funded project. Dr. Batal will be at AUB for a substantial part of the duration of leave. The leave is supported by a grant from the William and Flora Hewlett Foundation.

Dr. Makhzoumi's leave was requested to support literature search and writing of manuscripts on the origins of garden landscape in the Middle East at the Royal Botanical Gardens, London. The leave is supported by university funds.

Dr. Darwish's leave was requested to support research activities that deal with the economic and financial assessment of an innovative approach for integrated farm management plans.

The leave will be spent at Earth University (Costa Rica) and is supported by university funds.

Annual Report of Sponsored Research Projects and Service Contracts

The Chairman prepared the Faculty's Annual Report of Sponsored Research Projects and Service Contracts for the year 2004-2005.

Prepared by Imad Toufeili

THE LIBRARY COMMITTEE

2004-2005

Committee members: Drs. I. Bashour (chairperson), R. Baalbaki, M. Batal and Z. Kassaify.

During this year the committee members met three times with Ms. Fatmeh Charafeddine, Serials librarian, to discuss the issue of Library Journal Subscriptions.

A special meeting for Ms. Charafeddine and the faculty members at FAFS was arranged through the Dean's office. In this meeting Ms. Charafeddine explained to the faculty, the project which she is conducting at AUB libraries. Lengthy lists of Journal subscriptions were distributed to faculty members and asked to give back their recommendations (keep, cancel or shift) journal subscriptions.

The results of this project should help to update the list of subscriptions to better fit the needs of the faculty and the students at AUB. They should also lead to a reduction in the escalating cost of journal subscriptions.

Prepared by Isam Bashour

The Student Affairs Committee 2004-2005

M. Haidar (for R. Baalbaki, SAC Chairperson)

The members of the Students Affairs Committee for the year 2004-2005 were: Drs. Baalbaki (Chairperson), Batal, Farajalla and Haidar, and SRC representative.

The Committee met many times during the period of October 1, 2004 until September 30, 2005, and voted on many items. The Committee members discussed FAFS awards and disciplinary actions and made the following recommendations to the Dean.

Disciplinary Actions

One of our undergraduate students has been accused of violating AUB>s code of conduct by submitting a plagiarized assignment in ENGL 236. The Student Affairs Committee of the Faculty of Arts and Sciences found him guilty of plagiarism 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. The FAFS-SAC discussed his case at length and approved these recommendations.

FAFS Awards

Joana Haidar Award

The Committee selected Mr. Kassim Jouni for this Award. The Award was announced during the Aggie Olympics at AREC in May 2005.

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. Six 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, importance to field and GPA. The committee recommended Mr. Ghassan Haddad for this award.

Abdul Hadi Debs Award

The committee established and recommended to the Dean's office written procedures for this Award. Three 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. Sahar Eid 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 10 nominees. After reviewing them, the committee recommended to the Dean the following students, in order of preference:

- 1. Jane Bal
- 2. Hala Khoury
- 3. Karma Bouazza

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

Dean Thomas Thuserland Prize for Undergraduate Excellence

This Prize is automatically granted to the Penrose Award recepient, and therefore it went to Ms. Jane Bal.