

Sultan Qaboos University

COLLEGE OF AGRICULTURAL AND MARINE SCIENCES



**Annual Report
2009-2010**



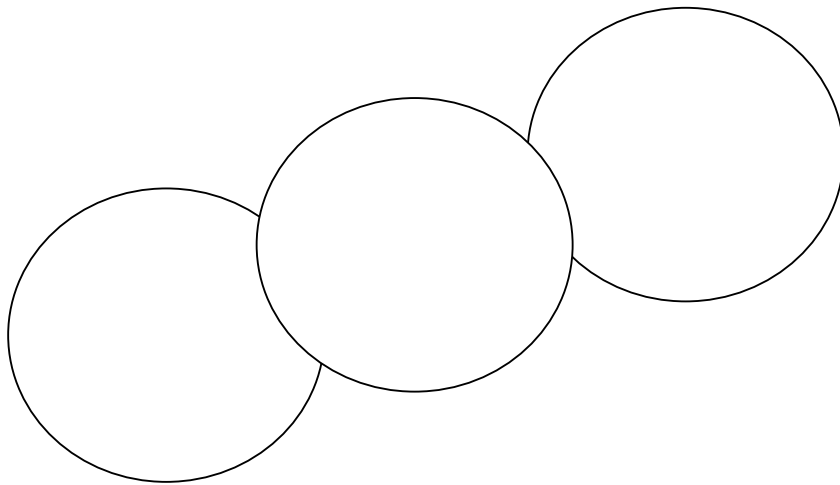
August 2010



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Dean's Report

Our vision is to be the top agricultural and marine sciences college in the Gulf region, recognized internationally. We are responsible for the development of human resources to meet challenges in producing, processing, and trading food and related commodities in Oman. This is achieved through ten undergraduate programs, eight MSc programs and four Ph.D. programs. We believe that our graduates are multi skilled with entrepreneurial spirit, and face their future with confidence.



An Internal Quality Assurance System, which include Executive Members adhering to responsibilities and authority, a triennial work plan, and benchmarking of all degree programs against international standards with the assistance of External Examiners is in place. All programs were assessed in May 2009, and all departments have responded to assessors comments positively.

Our Undergraduate enrollment in sections has been increasing over the years. Enrollment in CAMS courses during regular semesters (Fall & Spring) for AY07/08, AY08/09 and AY09/10, are 4946, 5523 and 5752 respectively. There is a steady increase in recent years, and indicative of higher levels of retention compared to previous years. Percentage of students in probation has gone down from 33% in 2008 to 24% in 2009. Among the progress CAMS have made, continuous increase in undergraduate student enrollments and reduction in students in probation are the most encouraging ones. We have also admitted seven students for Ph.D. programs, which include two international students.

Our research productivity remains high as previous years. Furthermore, we have secured several major grants from HM Trust fund and TRC fund. Our faculty serve as editors or as members of editorial boards of more than ten well reputed journals. Our international collaborations keep growing. We have hosted international students and faculty for various durations in 2009.

We are very active in serving SQU community and Omani community at large. We will continue to remain so. In order to facilitate impact of our research and expertise, we collaborate with five Ministries, namely (1) Agriculture & Livestock, (2) Fisheries Wealth, (3) Environment & Climate Affairs, (4) Regional Municipalities and Water Resources and (5) Health.

The College has received exceptional support from SQU Administration and the College Board has always arrived at a consensus on issues affecting the College. Our challenge in future years is to consolidate our progress in teaching, research and community service.

S. A. Prathapar, Ph.D.

Dean

Teaching

The College maintained vigorous and diverse teaching activities covering ten undergraduate, eight Masters and four PhD programs. The following two tables summaries teaching activities in CAMS over the 2009-2010 academic year:

Total number of course sections and registrations per department

Department	Courses		Registrations	
	Fall 09	Spring 10	Fall 09	Spring 10
AVS	18	21	193	269
CROP	20	17	324	296
FSN	20	20	421	399
MSF	16	15	254	240
NRE	11	12	237	325
SWAE	21	23	615	660
Dean's Office	8	7	396	381
TOTAL	114	115	2440	2570

Graduate course sections and registrations per department

Department	Courses		Registrations	
	Fall 09	Spring 10	Fall 09	Spring 10
AVS	1	3	2	10
CROP	4	6	12	23
FSN	3	4	12	20
MSF	0	3	0	13
NRE	3	2	6	8
SWAE	1	2	1	4
Dean's Office	1	1	12	9
TOTAL	13	21	45	87

In 2009-2010, the College opened its doors for the first time to doctoral students. Eight candidates were accepted in the PhD programs in 4 departments: Marine Science and Fisheries(2), Food Science and Nutrition(2), Crop Sciences(3) and Soils, Water and Agricultural Engineering(1).

The Masters of Science program is still going strongly with >45 students registered in the program in 2009-2010. Of these 18 defended their thesis and graduated in 2009.

In November 2009, 127 CAMS students graduated, 18 with Master's degrees.

Department	BSc Graduates	MSc Graduates
AVS	9	4
CS	20	5
FSN	23	3
MSF	16	2
NRE	17	1
SWAE	42	3
TOTAL	127	18

Research



Research Output

During the 2009-2010 academic year, CAMS researchers continued to contribute to a regular record of technical publications in specialized journals but also of publications addressed to a wider audience through articles in newspaper and in magazines. In the Calendar year 2009, a total of 214 publications resulting from research activities at CAMS were recorded of which 69 were published in peer-reviewed journals (Table I).

Several international conferences and workshops were held at CAMS during 2009 and 2010 to disseminate results of research carried out in the College. International collaborations through individual contacts of faculty but also through more formal agreements continued to increase; in particular in the form of exchange of graduate students and researchers with overseas institutions.

Table I. Publications from faculty and staff at CAMS during 2009.

Refereed journals	69
Book	1
Book chapters	21
Proceedings/papers/posters/abstracts presented at conferences/symposium/workshops/meetings	60
Abstracts of research presentations (SQU Day 2009) (Oral: 6 Posters: 11)	17
Technical reports	26
Articles in newspapers & other SQU publications	18
PhD dissertations	2
Total	214

Research Funding

The year 2009-2010 was particularly fruitful in terms of funding for CAMS faculty. Two HM projects were awarded in 2010 (Table II).

Table II. HM grant awarded in May 2010 to CAMS faculty.

No.	Title of Research	Principal investigator	Amount (R.O.)
1.	Potential sources of soil-borne plant pathogenic fungi and bacteria into farms in Oman	Abdullah Al-Saadi	87,500
2.	Economical, social and environmental impacts of marine biofouling in the Sultanate of Oman	Sergey Dobretsov	92,500
Total			180,000

In addition, two additional projects received funding from The Research Council (Table III).

Table III. Research grant awarded by The Research Council (TRC) to CAMS faculty in 2009-2010.

No.	Title of Research	Principal investigator	Amount (R.O.)
1.	Molecular characterization of Begomovirus associated with tomato and other crops and screening of tomato cultivars tolerant to leaf curl virus	Akhtar Jamal Khan	132,000
2.	Oceanographic regime shift in the Sea of Oman	Sergey Piontkovski	146,000
Total			278,000

The College has now a total of 9 ongoing HM projects for a total budget of >¾ million Omani Rials (Table I and IV).

Table IV. Ongoing research projected funded on by HM strategic fund before 2010.

No.	Title of Research	Year Granted	Principal Investigator	Amount (RO)
1	Feasibility of managed aquifer recharge using excess treated wastewater in Oman	2009	M. Ahmed	85,000
2	Management of salt-affected soils and water for sustainable agriculture	2006	S. Al-Rawahy	95,000
3	Conservation and utilization of plant genetic resources in Oman	2007	H. Esehie and N. Al-Saady	139,300

4	Development of management strategies for pesticide resistance and pesticide residue problems in Omani agriculture	2007	F. Talukder	81,950
5	Rejuvenating lime and mango production in Oman: Resolving current challenges	2008	R. Al-Yahyai	100,000
6	Characterization, evaluation and conservation of indigenous animal genetic resources in the Sultanate of Oman	2008	O. M. Gaafar	80,000
7	Stock assessment of Kingfish	2008	A. Govender	79,800
Total				661,050

A total of 7 additional projects received funding from SQU Internal Grants (Table V).

Table V. Internally funded project awarded in 2009.

No.	Title of Research	Principal Investigator	Amount (RO)
1	Characterization of gummosis and foot/root rot diseases of citrus in Oman	A. Al-Sa'di	11,600
2	Coastal agents of melon sudden decline in Oman	M. Deadman	10,000
3	Molecular characterization of Begomovirus associated with tomato and other crops and screening of tomato cultivars tolerant to tomato yellow leaf curl virus	A. Jamal Khan	10,000
4	The role of zooplankton in controlling the bloom-formation in Oman water bodies	A. Al-Azri	10,500
5	A database on the Arabian sea ecosystem	S. Piontkovski	11,000
6	Non-toxic antifouling compounds from marine bacteria	S. Dobretsov	12,000
7	Design and construction of greenhouses for arid regions: Phase 2	Y. Al-Mulla	4,900
Total			70,000

During 2009-2010, 9 internally funded projects were completed. (Table VI)

Table VI. Internally funded project completed in 2009.

No.	Title of Research	Year Granted	Principal Investigator	Amount (RO)
1	Development of salt and drought tolerant vegetable crops in Oman	2005	A.J. Khan	11,900
2	Biodiversity and community structure of hard-substrate littoral communities in the Sultanate of Oman	2005	M. Claereboudt	10,500
3	The effect of low levels of dietary cobalt on select parameters of the specific and non-specific immune responses of Omani goats	2006	E. Johnson	2,006
4	Bioavailability of iron in various types of meats in the Sultanate of Oman	2006	I. Kadim	10,000
5	Molecular investigation of lime Witches' Broom phytoplasma in Oman	2006	N. Al-Saady	10,200
6	Role of dietary and lifestyle risk factors on the prevalence of non-Hodkins lymphoma in Oman	2007	A. Ali	4,950
7	Biophysical dynamics of the upwelling ecosystems and surface currents along Oman	2007	V.B.S. Yellepeddi	12,000
8	The role of harmful algal blooms (HAB's) in the coastal water of Oman with emphasis on the role of <i>N. scintillans</i> and <i>Trichodesmium</i> sp.	2007	A. Al-Azri	12,000
9	Performance evaluation of a solar tunnel dryer for drying of fishes and dates in Oman	2008	M.A. Basunia	4,350
Total				77,906

Several new research projects were funded externally through consultancy and collaborative research in 2009 (Table VII).

Table VII. New external funded research projects in 2009-2010.

No.	Title of Research	Principal Investigator	Agency	Amount (RO)
1	Food demand survey and analysis	M. Mbagha	GRM int.	9,728
2	Comprehensive Master Plan for Al-Batinah	S. Zekri	HMR env.	798
3	Heavy metal contamination of fish and shellfish	S. Goddard	IIUM (Collabor.)	14,400
4	Histology training and consultation	A. Ambu Ali	MFW (Cons.)	2,650
5	Policy option for fish export to the GCC countries	H. Boughanmi	MFW (Cons.)	1,540
6	Detection of citrus exocortis viroid, citrus cachexia viroid and citrus greening bacteria by PCR assays in citrus trees from Royal Gardens and Farms	A.J. Khan	Royal Court Affairs (Cons.)	7,500
Total				36,616

* Cons. stands for consultancy.

Four externally funded projects awarded earlier were completed in 2009-2010 (Table VIII).

Table VIII. Externally funded projects completed in 2009-2010.

No.	Title of Research	Principal Investigator	Year Granted	Agency	Amount (RO)
1	Assessment of PDO operated desalination and sewage treatment plants	M. Ahmed	2007	PDO (Cons.)	7,700
2	Boron pre-treatment for seawater and brackish water desalination	M. Ahmed	2008	MEDRC (Cons.)	5,740
3	Feasibility study to upgrade the effluent water treatment and water disposal system at the PDO MAF Terminal in Oman	M. Ahmed	2008	PDO (Cons.)	16,320
4	Managed aquifer recharge of treated wastewater in Oman	S.A. Prathapar	2008	Oman Waste-water Services Co., SAOC (Cons.)	14,540
Total					44,300

• Cons. stands for consultancy.

Training and Community Services



The College maintained an extensive program of outreach. The main features of this program are summarized below. The highlight was Farmer's Day and Sport Day. The CAMS Calendar 2010 and fourth issue of the Outreach Magazine "Al-Hasaad" (the harvest) were published.

Conferences, Workshops, Training and Lectures Presented

Title	Beneficiary	Host Dept / Participant
• International Conference "Management of Soil and Groundwater Salinization in Arid Regions"	Ministries and private sector	SWAE
• Conference on "Food Security in the Arab Countries: New Challenges and Opportunities in the Context of Global Price Volatility"	Ministries and private sector	NRE
• National Symposium on Sustainable Development for Agricultural Sector	Ministries and private sector	CAMS
• Workshop on HM Project on Animal Genetic Recourses	SQU	AVS
• Workshop on Nutrition and Physical Activity	FSN Students	SWAE
• Workshop on Modeling Oceanic and Atmospheric Processes	SQU and Ministries	MSF
• Workshop on Current Challenges in nutritional-Related Health problems in Oman	SQU and Ministries	FSN
• Workshop on Review of the MSc Program in Marine Science and Fisheries	SQU and Ministries	MSF
• Workshop on Nutrition, Food in Human health and Disease in Oman	SQU and Ministries	FSN

• Workshop on Imaging Application in Biological and Agricultural Sciences	CAMS	SWAE
• Oman-South African Workshop on Fruit Production & Postharvest Management	CAMS	CS
• Trained 19 students from Higher College of Technology; & 12 students from College of Sciences SQU	Students of Higher College of Technology; College of Sciences, SQU	CS,FSN, AVS & Central Instrument Lab
• Trained two staff from Ministry of Fisheries Wealth	Ministry of Fisheries Wealth	Central Instrument Lab
• Trained one staff from Royal Court	Royal Court	CS
• Training on Oceanography, Marine Pollution and Management of Coastal Areas	Oman Navy	MSF
• Lecture on Healthy Nutrition for School Children for Aisha Abdullah School	School	FSN
• Lecture on Methods of Breeding and Propagation of Fruit Seedlings	Ministry of Agriculture	CS

Other Selected Outreach Activities

• A lecture during annual SQU career fair on CAMS programs, its graduates capabilities and the employment opportunity for CAMS graduates	HR managers	ADTCS
• Participation in Food Safety and Consumer Health Symposium	Muscat Municipality	FSN & AVS
• Participation in Health Inspection of Restaurants and Methods of Microbial Detection Workshop	MRMWR	FSN



Departmental Highlights

Animal and Veterinary Sciences (AVS)



- * Organized a workshop on Tick Identification.
- * Organized a workshop on Techniques in Clinical Diagnostic Microbiology.
- * Ms. Salma Al Adwani will leave for her Master degree in Immunology at the Washington State University, USA in August 2009.
- * Prof. Osman Mahgoub and Dr. Waleed Al-Marzooqi contributed to a workshop on training Omani farmers with the Ministry of Agriculture.
- * Dr. Isam Kadim participated in the 2nd Conference of the International Society of Camelid Research and Development, Djerba, Tunisia, 12-14 March 2009.
- * Prof. Osman Mahgoub and Prof. Eugene Johnson participated in Global Warming Impact on Sheep and Goat Production, 13th Seminar of the FAO-CIHEAM Sub-Network on sheep and Goat Nutrition, Leon, Spain, October 14-16, 2009, pp.54.
- * Dr. Waleed Al Marzoqqi, participated in the 2nd Mediterranean Summit of WPSA, Anatalya, Turkey, October 4-7 2009.
- * Dr. Mohammed Tageldin participated in the European Buitanied Forum Marseile, France, 1st - 3rd December 2009.
- * Dr. Isam Kadim participated in the Food Safety and Human health Workshop, Muscat, Sultanate of Oman, 21-22 March 2010.
- * Prof. Osman Mahgoub, Dr. Isam Kadim, Dr. Mohammed Tageldin, Dr. Waleed Al-Marzooqi and Dr. Yasmin El-Taher participated on Management, Health and Production of Arabian Camel Workshop hosted by the Ministry of Agriculture on 2nd of June 2009 in Nizwa.
- * Dr. Mohammed Tageldin received an invitation from the EU-funded ICTTD-3 to attend a satellite meeting within the framework of the Biennial Society for Tropical Veterinary Medicine in Lubeck, Germany from 29 June until 3rd of July 2009.
- * Dr. Mohammed Tageldin and Dr. Yasmin Al Taher conducted bacteriological and pathological examinations in Wallaby to investigate a disease outbreak on a farm in Sohar.

Crop Sciences (CROP)



- * Dr. Muhammad Qasim, University of Agriculture, Faisalabad, Pakistan, visited the Department as consultant from October 2009 to January 2010. He taught "Landscape Design" and "Floriculture and conducted research within the Department.
- * Dr. Fahad Al-Said chaired the advisory committee for research chair in Plant Pathology.
- * Dr. Michael Deadman visited more than 50 farms to advise on disease control.
- * Dr. Ahmed Al Maskri represented the college on managing the research program for developing integrated pest management for dubas bug in Oman (2009), Ministry of Agriculture, Oman.
- * Dr. Fahad Al-Said represented the college in state College Oman's development plans review committee.
- * Dr. Fahad Al-Said represented Crop Sciences Department in the discussion panel of one million date palm project held in Ministry of Agriculture.
- * Dr. Nadiya Al-Saady extended professional services as Editorial board member-World Journal of Agricultural Sciences.
- * Dr. Ali Al-Wahaibi attended Coconut Mite Research Project First Workshop organized by the Ministry of Agriculture.
- * Dr. Ahmed Al Maskri attended the "symposium on sustainable development of agriculture sector: Follow up to the recommendation implementations of the research and extension for sustainable worksheets, Ibri, Oman" and "symposium on sustainable development of agriculture sector: Follow up to the recommendation implementations of the institutional and legal frameworks and local systems worksheets, Ibri, Oman".
- * Dr. Farid Talukder served as General Manager of the Mediterranean Group of Pesticide Research (MGPR).
- * Dr. Jamal Khan provided research consultancy on Molecular detection of HLB bacterium and viroids in citrus from Royal gardens and provided assistance in disease identification and management to Tawoos Agric. Farm.
- * Dr. Michael Deadman was appointed to the honorary position of Visiting Chair in Plant Pathology at the University of Reading, UK.

- * Dr. Abdullah Al-Sadi continued his collaboration with Dr Arthur de Cock, CBS, and Holland on identification of new fungal species and with Dr Andre Drenth (The University of Queensland, Australia) on citrus diseases.
- * Dr. Jamal Khan has been upgrade to the level of Editor-in-chief, Biotechnology Journal and Regional Editor of International of Virology, J. Plant Sciences and International Journal of Agricultural Research.
- * Dr. Rashid Al-Yahyai attended workshop on National Strategy to Combat Salinity and Protect Water Resources from Pollution and Salinity in Sultanate of Oman (2009).
- * Dr. Farid Talukder served as Assessor for the Australian Research Council Discovery research Projects Applications.
- * Dr. Nadiya Al-Saady extended professional services as Associate editor-The Scientific Journal of Food, Agriculture and Environment.
- * Dr. Abdullah Al-Saadi continued consultancy service to His Majesty Farm in Sohar for diagnosing disease problems.
- * Dr. Abdullah Al-Saadi continued consultancy service to Omani Botanic Garden (Diwan) for diagnosing disease problems.
- * Dr. Nadiya Al-Saady extended professional services as a member of Department TRC- Biological and environmental resource committee, National committee on plant genetic resources and Oman's national committee on bioethics.

Food Science and Nutrition (FSN)



- * Received two SQU-funded projects (Dr. Waly and Prof. Rahman) and one joint project funded by the International Islamic University Malaysia Grant (Prof. Rahman)
- * The Department organized three workshops on "Current Challenges in Nutritional Related Health Problems in Oman" held on December 26, 2009 and on March 21, 2010 (Dr. Waly), and on " Food and Nutrition in Health and Disease" held on May 10th 2010 (Dr. Mohamed Essa)
- * Published 17 refereed papers, 2 books, 16 book chapters, 5 conference proceedings, and 3 popular articles, and presented 10 papers at International conferences.

- * Dr. Mohamed Essa and Dr. Mostafa Waly received the “Professionals from Developing country award” to participate at IMFAR 2010, May 20-22, 2010, Philadelphia, USA.
- * Mr. Mohamed Al-Ruzeiki received "Distinguished Staff Award for Community service".
- * Dr. Nejib Guizani and Prof. Shafiur Rahman served as members in the Committee for Academic and Conference Papers for the “International Conference on Food Security in the Arab Countries: New Challenges and Opportunities in the Context of Price Volatility”, Muscat, Sultanate of Oman, 2-4 March 2010.
- * One PhD student, Mr. Kasim Al Shamsi, from University Kebangsaan Malaysia visiting the department for conducting part of his experimental work.
- * One MSc student, Ms. Sumaya Zainab, from India Gandhi National Open University visiting the Department for conducting part of her experimental work.
- * Collaboration with Ministry of Commerce and Industry to organize a symposium on Fish Processing Industry in Oman (Dr. Al Alawi and Dr. Al-Bulushi)
- * Collaboration with Prof. Gary Dykes, Monash University, Australia in the areas of studying the microbial characteristics of Omani traditional foods (Dr. Al-Bulushi)
- * Collaboration with Dr. Gilles J Guillemin, University of New South Wales, Australia (Dr. Mohamed Essa)
- * Collaboration with Dr. Abha Chauhan, New York State Institute for Basic Research, New York, USA (Dr. Mohamed Essa)
- * Collaboration with Dr. Salwa Bornaz, Institute of Food Industry, University of Tunis II, in the area of milk technology (Dr. Guizani)
- * Collaboration with Dr. Abdur Rahman, Kuwait University, Kuwait (Dr. Mohamed Essa)
- * Collaboration with the La Rochelle University, France in the area of characterizing fish skin gelatin, and biofuel. Dr. Rahman visited their labs and one of FSN PhD students will be trained up in his lab for 3 weeks.
- * Collaboration with the Prof. Aminah Abdullah of Universiti Kebangsaan Malaysia, in the area of sensory analysis of Omani halwa. One PhD student is being supervised jointly. (Prof. Rahman)
- * Collaboration with UAEU University regarding Camel Milk project (Dr. Al Alawi, Prof. Rahman, and Dr. Guizani)
- * Collaboration with Dr. Jasim Ahmed from for publishing a book entitled “Handbook of Food Process Design”, Blackwell Publishing, Oxford, UK (Prof. Rahman).

Marine Science and Fisheries (MSF)



- * The Department hosted a Modeling Oceanic & Atmospheric Processes Workshop in March, 2010.
- * Faculty published 18 refereed papers 7 book chapters and presented 15 papers at international conferences.
- * On University Day, Dr Sergey Dobretsov was awarded a HM research grant to support his research on marine bio-fouling.
- * On University Day, Dr Saud Al-Jufaily was awarded a prize for his academic leadership in CAMS.
- * Dr. Adnan Al-Azri continued working with the Ministry of Foreign Affairs as a member of the Continental Shelf Committee.
- * The Department offered a training workshop for the Royal Navy of Oman in February, 2010.
- * Dr. Fahad Saleh Ibrahim continued his deputation to the Ministry of Fisheries Wealth.
- * The Department held an externally-mediated review of its MSc program in Marine Science and Fisheries from 24-28 April, 2010.
- * The Department collaborated with the Ministry of Fisheries Wealth to host an international workshop on Harmful Algal Blooms in April 2010.
- * Seven faculty presented seminars in the Department's seminar series.
- * Two Malaysian scientists from the International Islamic University, Malaysia visited the Department on contribution to the research project.
- * Ms. Aisha Ahmed Ambu-Ali, laboratory supervisor in the Department, gave a training and consultancy in the histology for the Ministry of Fisheries Wealth.
- * Two PhD students joined the Department, Dareen Al-Mojil (Kuwait) and Khalid Al-Hashmi (Oman).
- * Four MSc students submitted their completed theses for examination.
- * A Danish Graduate Student, Ms Annika Vaksmaa (University of Roskilde), worked on her thesis topic in the Department, co-supervised by Dr Sergey Dobretsov.

Natural Resource Economics (NRE)



- * The Department members have continued an active program of research with 3 new internal grant projects awarded to Dr. Slim Zekri, Dr. Omar Al Jabri, and Dr. Houcine Boughanmi. These research projects covered the areas of integrated urban water management, food security and supply chain management. Total funds amount to O.R. 15,000.
- * The Department successfully held a key international conference on “Food Security in the Context of Global Food Price Volatility”, which attracted a worldwide interest. Representatives from renown institutions such as IFPRI, the Arab Organization of Agricultural Development (AOAD), the Gulf Research Center (GRC), Norman Borlaug Institute of International Agriculture (Texas A&M), the International Fund for Agricultural development (IFAD, Rome) and other US, EU and Arab Universities have attended the conference and significantly contributed to the discussion on the current and future state of food security in the region.
- * The Department is preparing to hold a workshop on entrepreneurship and promotion of micro & small enterprises in collaboration with the Indian Institute of Micro and small enterprises. The workshop will target officials from Ministries and private sector as well MSc. students and final year undergraduate students.
- * The Department faculty continued to be involved in extended professional services to the government and business community. Dr. Andrew Palfreman provided support to the Ministry of Fisheries and Wealth through the demonstration of a model log frame for national planning purposes. Dr. Slim Zekri conducted a SWOT analysis for the agricultural sector for the HMR consultancy group. Dr. Msafiri Mbagha started a consultancy study on household food demand for GRM International and Dr. Hemesiri Kotagama completed a consultancy to PDO on costing of desalinization of sewage treatment plants.
- * The Department faculty have contributed to enhance the role of the university within the community. Dr. Houcine Boughanmi and Dr. Hemesiri Kotagama have served in both the National Committee, chaired by the VC and the

Technical Committee chaired by the DVC to prepare a policy report on the state and prospects of wheat production in Oman to insure food security.

- * The Department faculty published 6 papers in refereed journal and presented 5 papers at international conferences. Two papers are submitted and two others are under preparation. The Department members have been active in on-campus seminars and presentations (University Day, SAME seminars) and in outreach activities to disseminate research results to farmers. Dr. Slim participated through the HM project on management of salt affected soil (SWAE) in holding workshops with farmers; Dr. Omar Al Jabri and Dr. Houcine Boughanmi participated in the symposium of sustainable agriculture in Saih Al Massarat.
- * Dr. Msafiri Mbagi continued his useful collaboration with the Ministries of Agriculture in the Jabal Al Akhtar rose water project to increase rose production in Oman and enhance farmers' marketing skills. Dr Mbagi visited the Institute for Roses and Aromatic Plants and Tarakia University in Bulgaria to learn from the Bulgarian experience in this field and explore possible collaboration with SQU.
- * Dr. Andrew Palfreman continued using the AES as a learning ground to enhance the student's business skills. He started a new special problem project to assess the flower business in Oman using the AES facilities.
- * There are currently 8 MSc students registered in the Department and two has successfully defended their thesis this year; the enrollment of undergraduate students has increased significantly (67 students); we expect 17 students to graduate this year. Many students have taken advantage of the Department's Minor in Business Administration, delivered by the College of Commerce and Economics. All faculty have contributed to the revision of the undergraduate program to meet the requirements of the new foundation program.
- * The Department student society group has been very active this year. The students made a major contribution to the "Green Mine" CAMS festival on March 2010 and has been selected the best CAMS society of the year.
- * Ms. Dorothy Smith from Boston, USA visited the department as a Fulbright student to work under the supervision of Dr. Slim Zekri on groundwater awareness and policies.
- * Mr. Jumaa Al Musalami attended a training program on market access for sustainable development at Wageningen University at Netherlands. He presented the case of Oman experience on rose water project. As a result of his good work in this training he won the "best case study award" among 35 case studies presented.

Soils, Water and Agricultural Engineering (SWAE)



- * Dr. Salim Al-Rawahy continued to lead HM projects on Postharvest Technology and Management of Salt Affected Soils for Sustainable Agriculture.
- * Dr. Mushtaque Ahmed as PI led an HM project on Feasibility of Managed Aquifer Recharge Using Excess Treated Wastewater in Oman. SWAE faculty and staff, as well as two graduated students from Utrecht University (Holland) worked on this project.
- * SWAE faculty completed consultancies on Managed Artificial Recharge of Treated Wastewater (Oman Wastewater Company - Haya) Oil Production Water Disposal (M. B. Petroleum Services LLC) Feasibility Study to Upgrade the Effluent Water Treatment and Water Disposal System at the PDO MaF Terminal in Oman.
- * Dr. Mushtaque Ahmed finished his term as Assistant Dean for PGSR and was appointed as the Director of CESAR.
- * Dr. S. A. Prathapar continued his service as Dean of CAMS and Director of WRC.
- * Dr. Yaseen Al-Mulla continued his service as Assistant Dean of CAMS for Training and Community Services.
- * Dr. Ahmed Al-Busaidi served as a supervisor of the CAMS Students Society.
- * Dr. Malik Al-Wardy was appointed as the Director of AES.
- * SWAE faculty worked as PIs of the Internal Grant Research projects on:
 - a) Performance Evaluation of a Solar Tunnel dryer in drying fishes and dates in Oman (*Dr. Mohammed Basunia*)
 - b) Design and construction of Greenhouses for Arid Regions: Phase II (*Dr. Yaseen Al-Mulla*)
 - c) Optimal control of micro irrigation systems (*Dr. Hayder Rahman*)
 - d) Green roofs in Oman (*Prof. Anvar Kacimov*)
 - e) Agronomic and economic feasibility of salt tolerant plants for saline lands and water of Batinah (*Dr. Ahmed Al-Busaidi*).
- * SWAE faculty and staff published 19 papers in peer-reviewed journals.

- * SWAE faculty organized and participated in workshops on:
 - a) Workshop on Design and Management of Irrigation Systems, 23-25 March 2009
 - b) Series of workshops with Farmers of the Batina Region on the outcome of the Strategic Research Project on Management of Salt Affected Soils and Water.
- * Jointly with the WRC the World Water Day conference (March 2009) was organized.
- * SAME seminar continued its regular seminar series with presenters from outside CAMS and SQU (coordinator- Dr. Salem Al-Jabri).
- * Dr. Mushtaque Ahmed and Dr. Salim Al-Rawahy edited the volume of "Proceedings of the International Conference on the Management of Soil and Groundwater Salinization".
- * Mr. Said Al-Saqri and Ms. Leelwa Al-Hamadani were appointed as technicians in Spring 2009.
- * Dr. Linus Opara resigned in April 2009.
- * Mr. Talal Al-Shukeili went to the USA, Texas A&M University for his PhD studies in Ag Engineering.
- * Two new faculty (Dr. Hemanatha Jayasuriya and Dr. Manickasavagan Annamalai) joined the department in August-September 2009. Their Agricultural Engineering program (with specialisations in agricultural machinery and postharvest technology, correspondingly).
- * Mohammed Hassan, senior technician passed away.

UNESCO Chair



Within the vision of promoting an integrated system of research and capacity building in Marine Biotechnology, the following has been achieved during the academic year 2009-2010:

- * Major fund raising activities that generated substantial capital from international private sector to finance the establishment of Center of Excellence in Marine Biotechnology in Oman.

- * Successful fund raising activities to finance feasibility with external consultants.
- * Prof. Soussi was working closely with the Ministry of Commerce and Industry. He was the Chairman of the Management Team of the feasibility study for the establishment of the Center of Excellence in Marine Biotechnology in Oman.
- * Feasibility study for the establishment of the National Center of Excellence in Marine Biotechnology was completed and presented to national and international stakeholders.
- * Prof. Soussi was invited to University of Paris and its Marine Stations, to discuss partnership. He made presentations about the Marine Biotechnology project and strategies.
- * The Chair was appointed as member of University Research Council.
- * Prof. Soussi serves the subcommittee for University's Strategic Plan.
- * Prof. Soussi serves to Research Board.
- * Prof. Soussi taught two (2) postgraduate courses: Molecular Biology of Nutrition and Marine Biotechnology; and chaired two (2) theses defenses (MSc and PhD).
- * Prof. Soussi was invited speaker at Sustaining Agricultural and Marine Environments Seminar Series, CAMS, May 2009.
- * The Chair hosted the visit of Prof. Grant Burgess of University Newcastle, UK, where future research collaboration was discussed.
- * Continued collaboration with Ministries and The Research Council.
- * Continued working with Oman National Commission and UNESCO.
- * Continued publications in scientific journals as well as local newspaper to disseminate information, also through contributions of postgraduate students.
- * Contribution to University Day with abstracts and posters.
- * Acknowledged research achievements in the recent special issue of *Scientific American* (2010); Global Biotechnology Perspective, putting Oman on the map of future Biotech nations.

Agricultural Experiment Station (AES)



The AES is currently composed of 14 fields and over 33 units organized under three major sections: Plant, Animal, and Services. The AES staff consists of 33 members in various areas of expertise. Those areas include: 1- Crop Production;

2- Plant Protection; 3- Greenhouse Management; 4- Landscape Horticulture; 5- Honey Production and Bee Management; 6-Fruiting Trees; 7- Animal Health; 8- Livestock Production and Management; 9- Poultry Production; 10- Aquaculture; 11- Irrigation Engineering; 12- Soil and Water Management; 13- Machine Repair and Fabrication; 14- Shop and Store Management; and 15- Machine Operation. All staff undergo extensive training both on the job and in local, regional, and international institutions and are involved in teaching, research, routine production and management operations, community services, training, and extension. The following are highlights of AES's collaborative activities with different departments in CAMS and SQU.

Teaching

The AES staff contributed significantly in teaching, managing, and helping in the following courses:

Course Code	Title	Instructor
• ANVS 2001	Introduction to Animal Sciences	Dr. Dawood Al Ajmi
• ANVS 2002	Introduction to Veterinary Technology	Dr. Patrick Bobade
• ANVS 2005	Hematology and Clinical Chemistry	Dr. Patrick Bobade
• ANVS 2006	Vet. Microbiology	Dr. Yasmin Ahmed
• ANVS 3002	Animal Health	Prof. Osman Gaafar
• ANVS 3003	Principles of Animal Sciences	Dr. Yasmin Ahmed
• ANVS 3007	Animal Reproductive Physiology	Dr. Mohd Tageldin
• ANVS 3008	Farm Sanit., Disease Cont. & Preventive Medicine	Dr. Mohd Tageldin
• ANVS 3009	Clinical Chemistry, Cytology and Coprology	Dr. Patrick Bobade
• ANVS 4001	Dairy and Beef Production	Dr. Dawood Al Ajmi
• ANVS 4002	Poultry Production	Dr. Waleed Al-Marzooqi
• ANVS 4004	Camel Physiology & Husbandry	Prof. Osman Gaafar
• ANVS 4005	Farm Practicum	Dr. Waleed Al-Marzooqi
• ANVS 4006	Sheep and Goat Production	Dr. Yasmin Ahmed
• ANVS 4009	Meat Science	Dr. Isam Kadim
• ANVS 4015	Lab. Diagnosis and Pathology	Drs. Tag & Bobade
• ANVS 4016	Small Animal Clinics	Dr. Patrick Bobade
• ANVS 4017	Large Animal Diseases	Prof. Eugene Johnson
• ANVS 4900	Special Problem	Prof. Eugene Johnson
• BIOL 4500	Cell Biology	Dr. Saif Al Bahry

- CROP 2006 Weeds and their Control Dr. Ahmed Al-Maskri
 - CROP 2510 Introduction To Crop Production Dr. Fahad Al-Said
 - CROP 2510 Introduction To Crop Production Dr. Jamal Khan
 - CROP 3512 Vegetable Production Dr. Fahad Al-Said
 - CROP 4005 Filed Crop Production Prof. Humphrey Esechie

 - CROP 4011 Plant Propagation Dr. Rashid Al-Yahyai
 - CROP 4513 Floriculture Dr. Ahmed Al-Maskri
 - CROP 4517 Nursery and Greenhouse Management Dr. Fahad Al-Said
 - CROP 4523 Medical and Veterinary Entomology Dr. Farid A. Talukder
 - SWAE 2001 Introduction to Agricultural Engineering Drs. Jayasuria & Annamalai
 - SWAE 2002 Introduction to Agricultural Machinery Dr. M. A. Basunia
 - SWAE 3201 Power Units Dr. M. A. Basunia
 - SWAE 3402 Irrigation Principles Dr. A. Al-Ismaili
 - SWAE 4203 Principles of machinery Dr. Hemantha Jayasuria

 - SR/SCI/BIO/08/01 Microbiolgy Enhanced Oil Recovery Dr. A.E.Elshafie
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Research

The AES staff contributed significantly in setting up, managing, and helping in the following research projects:

Research Title	Researcher
• Causal Agents of Melon Decline Oman	Dr. Mike Deadman
• Chemical and Physical Characterization of Dates Pectin and its Effect on Dates Quality	Dr. Ahmed Al-Alawi
• Comparison of Growth Rate & Quality of Cucumber in Shades & Greenhouses	Dr. Fahad Al-Said
• Conservation and Utilization of Plant Genetic Resources in Oman	Prof. Humphrey Esechie
• Design and Construction of Greenhouse/Screen House for Arid Region	Dr. Yaseen Al-Mulla
• Development of Management Strategies for Pesticide Resistance and Pesticide Residue Problems in Omani Agriculture	Dr. Farid Talukder
• Effect of Hoagland Solution on the Growth and Development of Lettuce and Tomato Crops Grown via Hydroponics System	Dr. Ahmed Al-Maskri
• Effect of Irrigation Scheduling and Mulching on Water Use Efficiency Under Upgraded Screen House Conditions	Dr. Ahmed Al-Busaidi
• Effect of Three Different Shades on the Growth and Performance of Iceberg Lettuce	Dr. Fahad Al-Said
• Evaluation of Omani Camel Performance Under Intensive Management for Meat Production and Quality	Prof. Osman Gaafar
• Hydroponics as an alternative farming system	Dr. Ahmed Al-Maskri
• Management of Saline Soil and Water for Sustainable Agriculture	Dr. Salim Al-Rawahy
• Mango Sudden Decline	Dr. Mike Deadman
• Molecular Characterization of Begomovirus Associated with Tomato and Other Crop and Screening of Tomato Cultivars Tolerant to Tomato Yellow Leaf Curl	Dr. Jamal Khan
• Molecular Characterization of Sesame Phytoplasma	Dr. Jamal Khan
• Performance Evaluation of a Solar Tunnel Dryer for Drying Fishes and Dates in Oman	Dr. M. A. Basunia
• Performance Evaluation of Solar Tunnel Dryer for Drying Lemon	Dr. M. A. Basunia
• Rejuvenating Lime Production in Oman: Resolving Current Challenges	Dr. Rashid Al-Yahyai
• Soil Desalination and Crop Growth Under Application of Magnetic Water	Dr. Ahmed Al-Busaidi

Outreach

The AES and its staff carried out various activities in addition to daily routine works and played a major role in providing knowledge and experience to farmers and interested parties. The following are some of the activities held at AES during the past year:

- More than 200 farmers attended the Farmer's Day which was held in November 2009. This included women from the rural society and staff from the Ministry of Agriculture.
- 52 farmers and 15 ladies from Musandam and Sharqia regions were hosted during November and December 2009 as part of their training program in modern rearing of livestock organized by Ministry of Agriculture.
- A training workshop on "Growing and Propagation of Indoor Plants" was held in March 2010 for SQU staff.
- A training workshop on "Beekeeping" was held in March 2010 for SQU staff.
- A training workshop on "Familiarization with tractor and implement Operation" was held in May 2010 for SQU staff.
- More than 30 schools, from KG to Secondary High School levels, were received and introduced to different activities practiced in different sections of AES.

Operating budget and income generated

The AES received RO 85,000 (2010) from SQU for its operating expenses, and generated RO 51,690 (2009) through sales of various products. Details are below.

Item	R.O.
Honey	495.000
Sweet corn	391.500
Mango	198.000
Lemon	64.800
Date Palm	4,745.000
Dairy Plant (Milk)	24,224.000
Animals, Eggs and Meat	21,572.000
Total	51,690.300

Staffing

Staff List

Dean's Office	
S. A. Prathapar	Assoc Prof & Dean
Masoud Al-Hinai	Director of Administration
Majid Al-Mugheiry	College Superintendent
Saud Al-Jufaili	Asst Prof & ADUS
Mushtaque Ahmed	Assoc Prof & Outgoing ADPSR
Michel Claereboudt	Assoc Prof & Incoming ADPSR
Yaseen Al-Mulla	Asst Prof & ADTCS
Said Al-Ghanbousi	Asst Administrator

Leonila Magpantay	Coordinator, DO
**Amal Al-Mujaini	Outgoing Coordinator, ADUS
*Azza Al Akhzami	Incoming Coordinator, ADUS
Fe Alcachupas	Coordinator, ADPSR
Huda Al-Busaidi	Coordinator, ADTCS
Wafa Al-Raeesi	Coordinator, ADMIN
Jamal Al-Sabahi	Senior Tech
Mohammed Al-Darai	Storekeeper
Aneesa Al-Jahwari	Clerk
Tariq Al Alawi	Computer Tech

Suroor Al-Ghafri	Driver
Juma Ali Al-Musalmi	Messenger
UNESCO Chair	
Bassam Soussi	UNESCO Chair for Marine Biotechnology
Agricultural Experiment Station	
**Humphrey Esechie	Prof & Outgoing Director
Malik Al-Wardy	Asst Prof & Incoming Director
Khalifa Al-Hinai	Deputy Director & Asst. Director (Services)
Abdullah Al-Abri	Asst Director (Animal)
Abdulbaqi Al-Raeesi	Asst Director (Plant)
Zaid Al-Ramimi	AES Director of Admin
Mohammed Al-Rashdy	Coordinator
Negib Al-Raeesi	Clerk
Abduljalil Al-Zadjali	Vet
Ahmed Al-Yaqoubi	Tech
Ananias C. Justan	Tech (Dairy)
Attia Nageeb	Tech (Dairy)
Manolito Mengullo	Tech (Dairy)
Reynaldo Bello	Tech (Sheep)
Salim Al-Waheebi	Tech (Poultry)
Anwer Mohiuddin	Labourer (Goats)
Khalfan Al-Hinai	Labourer
Mohd Al-Khuziri	Labourer
Hamed Al-Mahruki	Tech (Greenhouse)
Saleh Al-Shargi	Tech (Ornamental/Fruit)
Yousuf Al-Belushi	Tech (Fields)
Hafidh Al-Mahruki	Tech (Bee)
Zahir Al-Abri	Clerk
Mohd Akber Khan	Labourer (Greenhouse)
Mohd Al-Mubaishi	Labourer (Fields)
Noor Khan	Labourer (General)
Salim Al-Nabhani	Labourer (General)
Abdulla Al-Muqbali	Tech (Irrigation)
Ahmed Al-Ghafri	Tech (Irrigation)
Ali Al-Zahimi	Tech (Mech.)
Ernesto Pereira	Tech (Mechanical)
Salim Al-Mawaly	Tech (Central Store)
Abdullah Al-Qanoobi	Labourer (Irrigation)
Mohd Mazher Uddin	Labourer (Mechanical)
Ahmed Al-Malki	Labourer (General)
Animal & Veterinary Sciences	
Isam Kadim	Assoc Prof & HOD
Naseeb Al-Saqry	Superintendent
Nawal Al-Aghbari	Coordinator
Eugene Johnson	Prof
Osman Gaafar	Prof
Patrick Akin Bobade	Assoc Prof
Waleed Al-Marzooqi	Asst Prof
Yasmin El Taher Ahmed	Asst Prof

Mohamed Tageldin	Asst Prof
Dawood Al-Ajmi	Asst Prof
Mohammed Al-Abri	Lecturer
♦ Salma R. Al-Adwani	Demonstrator
Rashid Al-Busaidi	Research Asst
Samera Khalaf	Senior Tech
*Mathankumar Somasundaram	Tech
Khalid Al-Habsi	Tech
Musab Al-Busaidi	Tech
Sadeq Al-Lawatia	Tech
Rabea Al-Maqbali	Tech
Kaadhia Al-Kharousi	Tech
Remya Nair	Tech
Crop Sciences	
Ahmed Al-Maskri	Assoc Prof & HOD
Yousef Al-Maqbali	Superintendent
Salwa Al-Zadjali	Coordinator
Humphrey Esechie	Prof & Dir AES
Michael Deadman	Assoc Prof
Jamal Khan	Assoc Prof
Fahad Al-Said	Asst Prof
Farid Talukder	Asst Prof
Nadiya Al-Saady	Asst Prof
Rashid Al-Yahyai	Asst Prof
Ali Al-Wahaibi	Asst Prof
Abdullah Al-Saadi	Asst Prof
Amna Al-Ruhaili	Demonstrator
Ali Al-Raeesi	Tech
Ali Al-Subhi	Tech
Issa Al-Mahmooli	Tech
Khamis Al-Habsi	Tech
Latifa Al-Kharousi	Tech
Omar Al-Mantheri	Tech
Yacoub Al-Mahrooqi	Tech
*Muhammad Asif Hanif	Tech
*Nadia Mohammed Azam	Tech
Food Science & Nutrition	
Nejib Guizani	Assoc Prof & Incoming HOD
Mohammed Al-Rizeiqi	Superintendent
Fatima Al-Amri	Coordinator
Bassam Soussi	Prof & UNESCO Chair
Mohd Shafiur Rahman	Prof & Outgoing HOD
Majeed Al-Ani	Assoc Prof
Amanat Ali	Asst Prof
Ann Mothershaw	Asst Prof
Buthaina Al-Rasasi	Asst Prof
Ahmed Al-Alawi	Asst Prof
Lyutha Al-Subhi	Asst Prof
Mostafa Al Waly	Asst Prof
Ismail Al-Bulushi	Asst Prof
Zaher Al-Attabi	Asst Prof
Mohammed Al-Khusaibi	Lecturer

Nasser Al-Habsi	Lecturer
Dalila Al-Bahri	Tech
Buthaina Al-Bulushi	Tech
Insaaf Al-Marhubi	Tech
Intisar Al-Zakwani	Tech
Raya Al-Malky	Tech
Zahra Al-Kharusi	Tech
Jamila Al-Zadjali	Tech
Farhat Al Naabi	Tech
Salha Al-Maskari	Tech
Rashid Al-Belushi	Senior Engineer
Sami Al-Kharusi	Engineer
Cesar Uñalivia	Dairy Plant Manager
Isauro Orlino	Tech
Sulium Al-Abri	Tech
Hamad Al Khatri	Labour
Marine Science & Fisheries	
Stephen Goddard	Assoc. Prof & HOD
Khamis Al-Riyami	Superintendent
Nadia Al-Kalbani	Coordinator
Bassam Soussi	Prof & UNESCO Chair
Michel Claereboudt	Assoc Prof
Sergey Piontkovski	Assoc Prof
Anesh Govender	Assoc Prof
Saud Al-Jufaili	Asst Prof & ADUS
Adnan Al- Azri	Asst Prof
Y.V. B. Sarma	Asst Prof
Aaron Henderson	Asst Prof
Sergey Dobretsov	Asst Prof
Hussain Al-Masroori	Asst Prof
Fahad Al-Ajmi	Assoc Researcher
Said Al-Barwani	Assoc Researcher
Khalid Al-Hashmi	Assoc Researcher
◇ Harib Al-Habsi	Senior Tech
Aisha Ambu Ali	Lab Supervisor
Ahmed Al-Souti	Tech
Sulaiman Al-Sheili	Tech
Salim Al-Khusaibi	Tech
◇ Nasr Al-Jardani	Tech
Mohammed Al-Gheithi	Tech
Saleh Al-Maashary	Boat Captain
Natural Resource Economics	
Houcine Boughanmi	Assoc Prof & Incoming HOD
Juma Saleem Al-Musalmi	Acting Department Supt
Sabra Al-Rijaebay	Coordinator
Andrew Palfreman	Assoc Prof & Outgoing HOD

Slim Zekri	Assoc Prof
Hemesiri Kotagama	Asst Prof
Msafiri Mbaga	Asst Prof
Omar Al-Jabri	Asst Prof
Amani Juma Al-Alawi	Tech
Soils, Water & Agricultural Engineering	
Anvar Kacimov	Prof & HOD
Abdullah Al-Belushi	Superintendent
Asila Al-Rashdi	Coordinator
Hayder Abdel Rahman	Assoc Prof
Mushtaque Ahmed	Assoc Prof
Said Al-Ismaily	Asst Prof
Salem Al-Jabri	Asst Prof
Yaseen Al-Mulla	Asst Prof & ADTCS
Salim Al-Rawahy	Asst Prof
Malik Al-Wardy	Asst Prof & Dir AES
Mohammed Basunia	Asst Prof
Ali Al-Maktoomi	Asst Prof
Abdulrahim Al-Ismaili	Asst Prof
*Hemanatha Jayasuriya	Asst Prof
*Manickavasagan Annamalai	Asst Prof
◇ Talal Yasir Al-Shukeili	Lecturer
Ahmed Al-Busaidi	Assoc Researcher
Seif Al-Adawi	Chief Tech
Muna Al-Amry	Senior Tech
Mohamed Al-Balushi	Senior Tech
Hamad Al-Busaidi	Senior Tech
Mansour Al-Haddabi	Senior Tech
Hamid Al-Handali	Senior Tech
Hamad Al-Hajri	Tech
Adel Al-Mahdouri	Tech
Said Al-Saqri	Tech
Leelwa Al-Hamadani	Tech

* *New Staff*

** *Departing Staff*

◇ *On Study Leave*

Staff Promotions

Dept	Staff	New Position/Grade
AVS	Osman Mahgoub	Professor
FSN	Shafiur Rahman	Professor
	Ismail Al Bulushi	Asst Prof
	Zaher Al-Attabi	Asst Prof
	Mohammed Al-Rizeiqi	T4
	Raya Al-Malky	T3
	Rashid Al-Belushi	T4
	Insaaf Al-Marhubi	T4
MSF	Ahmed Al-Souti	Senior Technician
NRE	Slim Zekri	Assoc Prof

Scholarships & Training

Scholarships

Department	Staff	Nature of Study
AVS	Salma Al Adwani	MSc
FSN	Nasser Al-Habsi	PhD
	Mohammed Al-Khusaibi	PhD
MSF	Harib Al-Habsi	MSc
	Nasr Al-Jardani	MSc

Short term training

Department	Staff	Course
AVS	Musab Al-Busaidi	Dairy Cow Management for Better Milk Production and Quality, Japan
	Rabea Al Maqbali	Proteomic and Enzyme Analysis, UK
FSN	Jamila Al-Zadjali	Diet and Diabetics, USA
	Mohammed Al-Rizeiqi	Application of instantaneous pressure control system on microbial lethality, France
MSF	Mohammed Al-Gheithi	Vessel Safety Training, Malaysia

Visitors



The College received many international visitors:

- Dr. Mushtaq Ahmed Memon, Washington State University
- Dr. Albano Beji Pereira, University of Porto, Portugal
- Prof. Abdalla A Latif , Programme Manager in ARC-Onderstepoort Veterinary Institute, South Africa
- Dr. Simon Gowen, University of Reading, UK
- Prof. Mike Wingfield, FABI, University of Pretoria, South Africa
- Prof. Andreas Beurkert, University of Kassel, Germany
- Dr. Louis Lalay, UAE University, UAE
- Dr. Mostafa Ahmed Arafa, King Saud University, Riyadh
- Dr. Gilles Guillemin, University of New South Wales, Australia
- Dr. Karin Petrini, Glasgow University, UK
- Dr. Mohammed Tariqur Rahman, Interantional Islamic University of Malaysia, Malaysia
- Dr. Lindsay Charles Brown, Queensland University, Australia
- Dr. Abdur Rahman, Kuwait University, Kuwait
- Prof. Patricia Glibert, University of Maryland, USA
- Dr. Shahbudin B. Saad, International Islamic University, Malaysia
- Mr. Mohammed Zahir B. MD. Suhaimi International Islamic University, Malaysia
- Mr. Mike Merkovina, Team Leader of the Marine Resources Expedition, South Africa
- Dr. Hans-Uwe Dahms, College of Natural Science Sangmyung University, South Korea
- Dr. Michael Bode, University of Melbourne, Australia
- Prof. Dan Baird, Stellenbosch University, South Africa
- Prof. Sharon Smith, University of Miami, USA
- Mr. Girish Kumar, Ministry of Earth Sciences, India
- Prof. G.S Bhat, Indian Institute of Science, India
- Dr. Vimlesh Pant, Indian National Centre for Ocean Information Services, Indian, India

- Prof. P Vinayachandran, Indian Institute of Science, India
- Ms. Dorothy Smith, Boston, USA
- Dr. Khaled Mushtaq, Faisalabad University of Agriculture, Pakistan

Student Society



The Agricultural and Marine Sciences Society (AMSS) have habitually demonstrated great commitment and given creative input to improve their activities and programs throughout the current academic year. It has strived to establish itself both inside and outside of the CAMS as follows:

At the college level:

They actively involved in the organization of the:

- Orientation day to welcome the new admitted students to CAMS
- Majors week in association with the Center of Career Guidance
- Farmers' Day which was celebrated by SQU along with a large number of interested people from the community at large
- Educational workshops to develop the instructive skills of students
- Lectures delivered by invited speakers outside the University
- Night event to launch the "Agricultural Echoes" a magazine designed to voice the aims and ambitions of CAMS
- Forth veterinary medicine gathering
- College Sport Day
- Annual Dean's Cup



At the University level:

- Involved in the public awareness at the Masera Island
- Participated in Water World day and Food World Day
- Participated in the 4th Social gathering organized by the Center of Handicapped Development in Al-Khoud
- Participated in the Social service gathering organized by the Deanship of Student's Affairs
- Participated in various school and Universities' activities

The crowning glory for AMSS was to be awarded first place, during the Student Activities Exhibition for 2009. The society received a medal of honor in recognition of the care taken to provide an extra push ahead for the future. The competition amongst the different SQU student societies was strong. AMSS managed to secure first place due to the group work which characterized its exhibits. Additionally, the AMSS successfully organized its major event of this academic year; "Second Agricultural Festival; the Green Mine" which highlight socio-economical important of date palm tree in Oman as well as their nutritional value and usage in various agriculture sectors. Although it's traditional in nature, the members were able to include their thought to solve some of the problem facing the expansion in the growing of this crop. Scientific lectures as well as interviews of members in TV and Radio to highlight the important of this crop to Omani people.

AMSS is not only a spoken word; it is actually the consolidated and devoted efforts of its members to achieve its goals and to present the best activities throughout the year. Therefore, it has the responsibility to boost the college and its students to excel and to find solutions to any obstacles that could limit the creativity and distinction of CAMS students.

Major New Items of Equipment

The following major items listed below, all priced above RO 1,000-, were ordered or delivered during the academic year 2009-10.

No.	Product Description	Quantity	Total Price R.O.
1	ANALYSER	1	3309
2	PHOTOCOPY MACHINE (HEAVY DUTY)	3	7704
3	PLANT GROWTH CHAMBER	1	5650
4	COMPUTER WORKSTATION	12	5760
5	THERMAL CYCLER	1	3500
6	BODY FAT MONITER	1	1131
7	WATER ACTIVITY METER	1	1500
8	INJECTOR SP/SPL FOR AGILENT 6890N	1	3200
9	SOXHLET APPARATUS (COMPLETE SET)	1	4420
10	FRIDGE-INCUBATOR	1	1650
11	INCUBATOR	1	1022
12	AUTOCLAVE	1	15100
13	CTD MULTIPARAMETER PROBE	1	20425
14	CENTRIFUGE	1	2715
15	DESK TOP COMPUTER(Macintosh)	1	1050
16	AUTOMATED MICROBIAL IDENTIFICATION	1	16150
17	DISPENSER	1	1300
18	LCD PROJECTOR:-	5	2775
19	AUTOCLAVE	1	2970
20	CALORIMETER	1	11000
21	BOOSTER PUMP 40CM @ 40MTRS	1	1365
22	BOOSTER PUMP 100CM @ 65MTRS	1	2950
23	ELECTRIC CONTROL PANEL	1	1000
24	STEAM DISTILLATION UNIT	1	5496
25	CATTLE WEIGHING SCALE	1	2550
26	PELLETING MACHINE	1	6941
27	ROTARY EVAPORATOR	1	3838
28	ELECTROPHORESIS SYSTEM	1	2200
29	DESK TOP COMPUTER	24	10056
30	DATA LOGGER	1	2666
31	WORK TEST BENCH	1	1271
32	SP-1500 LAB SPRAY DRYER	1	4246
33	FIBERTEC	1	9000
34	WATER BATH & SHAKER	1	1285
35	2WD TRACTOR 65-70HP	1	19380
36	GROWTH CHAMBER	1	4439
37	ROLLING DOOR	1	2000
38	PENETROLOGGER	1	2072
39	W.E.T. SENSOR KIT	1	1339
40	PRESSURE PLATE APPARATUS	1	7847
41	TRIME FM-3	1	2050



CAMS Office Bearers

S. A. Prathapar	Dean
Michel Claereboudt	Asst. Dean for Postgraduate Studies & Research
Saud Al-Jufaili	Asst. Dean for Undergraduate Studies
Yaseen Al-Mulla	Asst. Dean for Training and Community Services
Isam Kadim	Head, Dept. of Animal & Veterinary Sciences
Ahmed Al-Maskri	Head, Dept. of Crop Sciences
Nejib Guizani	Head, Dept. of Food Science & Nutrition
Steve Goddard	Head, Dept. of Marine Science & Fisheries
Houcine Boughanmi	Head, Dept. of Natural Resource Economics
Anvar Kacimov	Head, Dept. of Soils, Water & Agricultural Engineering
Malik Al-Wardy	Director, Agricultural Experiment Station
Masoud Al-Hinai	Director of Administration
Majid Al-Mugheiry	College Superintendent



Mailing Address

College of Agricultural and Marine Sciences
Sultan Qaboos University
P. O. Box 34, Al-Khod
Postal Code 123
Muscat, Sultanate of Oman

General Enquiries

College of Agricultural and Marine Sciences
Telephone : 24141201
Fax : 24413418
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Offices

Undergraduate Studies
Tel : 24141252

Postgraduate Studies and Research
Tel : 24141235

Training and Community Services
Tel : 24141248

Administration
Tel : 24141221

Agricultural Experiment Station
Tel : 24141238

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Student Society