

**AMERICAN UNIVERSITY OF BEIRUT
FACULTY OF ARTS AND SCIENCES
DEPARTMENT OF EDUCATION**

2005-2006 Annual Report

A. SUMMARY OF ACTIVITIES

1. The number of majors averaged across the fall and spring semesters were as follows: BA (47), Teaching Diploma (41+38¹), Graduates (85) and Prospective Graduates (2).
2. Enrolment in education courses for fall and spring semesters was 1215 for undergraduate courses, and 251 for graduate courses. Enrollment for summer 2005 was 89. Total enrollment in graduate and undergraduate courses was 1553.
3. The Department organized two sets of workshops in August - September 2005 and February- March 2006.
4. SMEC held its 9th Annual Science and Math Teachers Conference during November 2005. More than 700 educators participated in the Conference. In addition, SMEC held a colloquium on the “Status of evolutionary theory in Lebanese undergraduate biology programs” and a “National Forum on relating policy, theory, research, and practice in mathematics and science education” in Lebanon.
5. SMEC, in collaboration with the Education Students Society, held the 13th Annual Science, Math, and Technology Fair during May 2006. Students from 24 schools participated in the Fair.
6. The Education Students Society held its annual Reading Day for disadvantaged children during March 2006.
7. The Education Forum held three events during the academic year 2005-2006: A lecture by Mr. Khalid Kabbani, Minister of Education; a two-day conference on “Developing an agenda for research in higher education to promote sustainable development”, and a lecture on the new evaluation system in Lebanon.
8. The second Graduate Student Research Forum was held in April 2006. The forum is a mini-research conference for graduate students in the Department of Education.
9. The Curriculum and Examination Committee (CEC) finalized a proposal to develop the learning outcomes of the BA program and a proposal for a new comprehensive examination format. These proposals were discussed in a Department Retreat held in May 2006. In addition, CEC is in the process of developing a plan to review the graduate program and the BA program in line with the department learning outcomes.
10. The Department received a \$50,000.00 grant to strengthen the Special Education Diploma program. The money will be used to increase student and community access to important educational resources for helping students with special needs and gifted students.
11. Faculty members contributed heavily to the Faculty and University committees.
12. Department Faculty members were involved in REP projects including the Dhofar University Project, the Al-Nibras Private School Project, and the Al-Mana’a Project.

¹ Many students are presently completing the Teaching Diploma along with the Bachelors degree. During the academic year 2005-2006, around 38 students completing Bachelor’s degrees were enrolled in the science, English, and math methods and practicum courses, courses that are required for completing a Teaching Diploma.

13. Members of the Department are working with the AUB Development Office on finding funds for a proposal on Educational Reform in the Arab States.

B. PERSONNEL

1. Faculty Members

Academic

Regular

Amal Bou-Zeineddine	Ph.D.	Lecturer
Barend Vlaardingerbroek	Ph.D.	Assistant Professor
Fahmi Banafa	Ph.D.	Assistant Professor
Ghazi Ghaith	Ph.D.	Associate Professor
Karma El-Hassan	Ph.D.	Associate Professor
Marj Henningsen	Ph.D.	Assistant Professor
Munir Bashshur	Ph.D.	Professor
Murad Jurdak	Ph.D.	Professor
Patricia Pederson	Ph.D.	Assistant Professor
Samar Mukallid	Ph.D.	Lecturer
Saouma BouJaoude	Ph.D.	Professor
Tamer Amin	Ph.D.	Assistant Professor
Winnifred O'Toole	Ph.D.	Assistant Professor

Part-timers

Enja Osman	M.A.	Instructor (Coordinator of practice teaching)
Hanin Hout	Ph.D.	Lecturer
Magida Mabrouk Sleiman	M.A.	Instructor
Mahmoud Shehab	M.A.	Instructor
Mayada Kanj	M.A.	Instructor
Najla Bachour	Ph.D.	Lecturer
Nicolas Zayyat	M.A.	Instructor
Ra'uf Ghusayni	Ph.D.	Associate Professor
Richard Abou Moussa	Ph.D.	Lecturer
Rola Shukri Balaa	M.A.	Instructor
Samira Istfan	Ph.D.	Lecturer
Waltraud Merhej	M.D.	Lecturer

2. Graduate Assistants

- Amanda Burgoyne
- Lynn Farah
- Nisrine Ibrahim
- Mirna Madi
- Nabila Rahhal
- Mary Saad
- Rayyana Saad
- Inas Srour
- Diana Sarieddine

D. RESEARCH

Tamer Amin

- Amin, T.; Leitão, S. & Da Rocha, J. (forthcoming). Semiotic articulation of process and content in a high-school science activity: An integration of three perspectives. In C. Lightfoot, M. Lyra, & J. Valsiner (Eds.). *Challenges and Strategies for Studying Human Development in Cultural Contexts. (Advances in Cultural Psychology: Constructing Human Development, Vol. 2)*. Information Age Publishers, Inc.
- Amin, T. (research completed and paper being prepared). Scientific discourses: A developmental telos. To be submitted to *Human Development*
- Amin, T. (research completed and paper being prepared). English language learners' appropriation of scientific discourses: A review from a Multiliteracies perspective. To be submitted to *Linguistics and Education*
- Amin, T. (research completed and paper being prepared). A functional linguistic characterization of concepts in thermal physics. To be submitted to *Cognitive Science*

Additional on-going research projects:

- Currently engaged in data analysis of the teaching of science in Arabic in two Lebanese first grade classrooms. The target journal for this research is the journal *Cognition & Instruction*

Saouma BouJaoude

BouJaoude, S. (In press). Enhancing Students' Ability to Learn Meaningfully in Science. Paper prepared for publication in a book on advances in teaching, Secretariat General of Catholic Schools, Lebanon.

A paper that review research on enhancing meaningful learning in science. Provides recommendations of making science teaching more meaningful to students at all levels.

BouJaoude, S. (in Press). *Bridging the Gap between Scientists and Science Educators in the Arab Region*. Research Report presented at the Expert Group Meeting on "Bridging the Gap between Scientists and Science Educators", organized and sponsored by the UNESCO Office, Cairo, Egypt, from January 29 – February 1, 2006.

This paper reviews research on teaching science at the college and pre-college levels, investigates the nature of science teacher preparation in the Arab states, proposes a model for the preparation of science teachers, and strategies to bridge the widening gap between science research and science teaching and between science teacher, science teacher preparation faculty members, and science basic science faculty members.

Integrating science and math through computer based labs (CBL)" (co-principal investigator with Dr. Murad Jurdak). The purpose of the project is to investigate the effect of CBL science and mathematics on instruction. Data collection and analysis have been completed. One paper is about to be completed and another is in preparation. (Funded by URB).

Karma El-Hassan

Papers under Review

- El Hassan, K. (2005). Identifying predictors of student development. Manuscript submitted for publication.
- El Hassan, K., and Mouganie, Z. (2005). The Effect of the Social Decision-Making Skills Curriculum on the Emotional Intelligence and the Pro-social Skills of Primary Students (Grades 1-3) in Lebanon. Manuscript submitted for publication.

- El Hassan, K. (2005). Investigating Substantive and Consequential Validity of Student Ratings of Instruction. Manuscript submitted for publication.
- El Hassan, K., and Nassar, N, (2006). Type and Frequency of Bullying and Self-esteem in the Elementary School. Manuscript submitted for publication.
- Currently working on problems encountered in cross-cultural test adaptation. Paper will be presented in International Test Commission (ITC) Conference in Brussels, July 5-8, 2006.

Ghazi Ghaith

Determinants of Achievement and Psycho-social adjustment Among College-Bound Intensive English Learners.

This research aims to determine the factors that impact the achievement of college-bound English as-a-foreign language (EFL) learners in the cognitive and affective domains of their schooling. Specifically, It examines the connection between teachers' and learners' perceptions of instructional climate within intensive English programs and the learning outcomes realized in these programs in the domains of academic achievement, psychosocial adjustment, and motivation to learn EFL. .

Al-Badawi, G., Ghaith, G.M. & Shaaban, K. (in press). An Exploratory Study of the Effects of Cooperative Learning on Vocabulary, Reading Comprehension, and Motivation to Read. *Reading Psychology*.

Ghaith, G. M. & Kawtharani A. (in press). Using Cooperative Learning with Primary School Students. In G. Jacobs & S. McCafferty (Eds.), *Cooperative Learning in Language Teaching*. Cambridge University Press.

Marj Henningsen

Articles in Review in refereed journals

Henningsen, M.A. & Zebian, S. (in review—*revision of a previous reviewed manuscript*). How well do the NCTM Standards travel? The case of Lebanese elementary mathematics classrooms.

Henningsen, M.A. (revision resubmitted). Elementary pre-service teachers' narrative cases of mathematics teaching as a lens for investigating learning from case-based experiences.

Henningsen, M.A. (in review). Reasoning across cases of mathematics instruction: An exploration of what elementary pre-service teachers learn about mathematics teaching and learning and the value of studying cases.

Abi-El-Mona, I., Abd-El-Khalick, F., & **Henningsen, M.** (in review). The influence of mindmapping on the science achievement of grade 8 students.

Articles in Preparation

Zebian, S. & **Henningsen, M.** (in preparation). International comparative research and the concept of cultural scripts: A critique.

Zebian, S., & **Henningsen, M.** (in preparation) Grounding our understanding of mathematics teaching and learning across cultures in multiple levels of analysis: Empirical, conceptual and methodological contributions from a national video study of mathematics teaching in elementary Lebanese classrooms.

Tayara-Saoud, L. & **Henningsen, M.** (in preparation). The relationship between code-switching and the quality of mathematical communication in Lebanese elementary classrooms.

Zebian, S. & Henningsen, M. (in preparation). Sociomathematical norms in Lebanese classrooms and their relationship to higher order critical thinking: Some different conceptual starting points for mathematics teaching and learning.

Conference Proceedings:

Henningsen, M.A. (2005). Elementary mathematics pre-service teachers' learning from narrative cases. In A. Rogerson (Ed.), *Proceedings of the 7th International Conference of the Mathematics into the 21st Century Project*, November 2005, Malaysia.

Henningsen, M. (2005). Elementary math in the MENA: Implications from TIMSS 2003 and a recent national video study in Lebanon. *Middle East Educator*, 0, 28-33.

Ongoing Research Activities:

I am currently serving as the working group leader for Teacher Education and Development for the Math Education into the 21st Century Project. This is a collaborative project that holds annual conferences and involves researchers from all over the world. I am also the project representative for Lebanon. I am currently organizing its 2006 meeting to be held in Beirut;

I continue to work on teacher learning from cases from both an empirical and theoretical point of view; (c) The majority of my research time this year has been dedicated to co-directing a research and development project with a colleague in SBHS, Dr. Samar Zebian. MARAL has two broad purposes: 1) to study student engagement in high level thinking, reasoning, and communication in elementary mathematics classrooms in Lebanon (public and private, Arabic and English) and 2) to provide support to teachers in their efforts to do so. The research involved data collection in schools primarily in the form of videotaped lesson observations and audiotaped interviews with teachers. This type of work is labor-intensive and time-consuming. The bulk of 2005-2006 has been spent completing one major writing project which was reviewed and according to reviewer comments was split into two manuscripts, one of which is currently out for review again. We have also met weekly throughout the year completing further coding and analysis of a stratified random sample of 82 lessons from the MARAL database (total database = 249 tapes) toward another major writing project which should be sent out for review in Summer 2006. At least two other new analysis projects are planned to be initiated in Summer 2006. Also in September 2005 we organized, in conjunction with SMEC, a *National Forum on Relating Policy, Research, and Practice in Mathematics and Science Education* which focused on research results from international and national studies conducted in Lebanon. In addition to the coding projects, we are pursuing grant-writing for substantial long-term funding and partnerships to continue MARAL in the context of creating a multi-national regional database for comparative studies.

Murad Jurdak

Integrating science and math through computer based labs (CBL) (co-principal investigator with Prof. Saouma BouJaoude) is a URB-funded project. The purpose of the project is to investigate the effect of CBL on instruction in science and mathematics. Data collection and analysis have been completed. One paper is about to be completed and another is in preparation.

The impact of tasks incorporating problem solving strategies and mathematization on the beliefs and teaching practices of pre-service secondary teachers” is a project which aims at a better understanding of the role of problem solving tasks may play in pre-

service teacher education. Specifically, the purpose of the study is to investigate the impact of problem solving tasks that incorporate problem solving strategies and mathematization on the beliefs of pre-service secondary student teachers (conception of mathematics, conception of teaching of mathematics, and conception of problem solving, relation of problem solving to the real world) and on their cognition-in-practice. Data collection is under way.

Other research activities

Jurdak, M. (in press). Contrasting perspectives and performance of high school students on problem solving in real world, situated, and school contexts. *Educational Studies in Mathematics*

Articles published online

Two articles which were published in Educational Studies in Mathematics were published by Kluwer On-line:

Jurdak, M. & Shahin, I. (2001). Problem solving activity in the workplace and the school: The case of constructing solids, *Educational Studies in Mathematics*, 47, 297-315.

Jurdak, M. & Shahin, I. (2001). Problem solving activity in the workplace and the school: The case of constructing solids, *Educational Studies in Mathematics*, 47, 297-315.

Reports

Jurdak, M. (2006). Impact of student, teacher, school factors on achievement in mathematics and science based on TIMSS 2003 Arab Countries Data. Beirut: UNESCO Regional Office in Beirut (130 pages, limited distribution)

Samar MuKallid

- Currently preparing with an x-graduate student of mine two research articles on emotional intelligence to be submitted for publication.

Patricia Pederson

Pederson, P.V. (submitted). Transmitting American Values: One role of the social studies textbook in the United States. *McGill Journal of Education*.

Pederson, P.V. (in press). Transmitting American Values: One role of the social studies textbook in the United States. Translated into Arabic. *Proceeding of the Lebanese Association for Education Studies (LAES) Conference on Textbooks*. Beirut, Lebanon.

Paper written and in final editing stage

Malone, V. & Pederson, P.V. Developing literate citizens in the age of standards and accountability.

Research completed. Paper being written

Pederson, P.V. Impact of NCLB on non-tested subjects: A national survey

Initial Exploratory Stage*

Pederson, P.V. Attitudes toward American culture and United States international relations: A Lebanese adolescent perspective.

*I have applied for a CASAR summer grant to continue research on this project.

Barend Vlaardingerbroek

- Rabah, J.Y. & Vlaardingerbroek, B. (In press) Teachers' and administrators' perceptions of the bullying problem in Lebanon. *Mediterranean Journal of Educational Studies*.
- Vlaardingerbroek, B. & El-Masri, Y.H. (In press) The status of evolutionary theory in undergraduate biology programmes at Lebanese universities: A comparative study. *International Journal of Educational Reform*.
- Vlaardingerbroek, B. & Taylor, T.G.N* (In press). Upper secondary school physical science curricula in New Zealand after the National Qualifications Framework reforms. *International Journal of Science and Mathematics Education*.

Under review:

Vlaardingerbroek, B., Dallal, K.*, Rizkallah, G.* & Rabah, J.* A tracer study of Lebanese upper secondary school students.

Study in progress:

Comparative study of Lebanese and Australian prospective teachers' environmental knowledge and attitudes; with T.G.N. Taylor of the University of New England, and with the collaboration of the Lebanese American University. No funding. Awaiting questionnaires from Australia and will then analyse and write up (anticipated date of submission to a journal: June).

Winnfred O'Toole

My research focuses on the intersection of leadership and adult learning and implications for leadership education. I have been adapting Harvard developmental psychologist, Robert Kegan's 'subject-object' interview. I was invited to spend part of the summer at the Harvard Center for Public Leadership and delivered a paper on leadership and leadership education. I submitted a proposal for a chapter for an edited book on education leadership. I have been invited to present a paper on leadership at the International Peace Research Association's Annual Conference at the University of Calgary, Canada, in June, 2006.

E. OTHER STAFF ACTIVITIES

Tamer Amin

- Served on editorial board of *Culture & Psychology*
- Served as reviewer for *Annual Conference of the Cognitive Science Society*.
- Member of Local Organizing Committee, *Ninth & Tenth Annual Science and Mathematics Educators Conference*, SMEC 9 & SMEC 10, AUB.
- One-day workshop for supporting the teaching of science for English language learners was conducted for all elementary school teachers of Rawdah High School.
- A practical-interactive sessions entitled, "Teaching Science for English Language Learners" was presented at the Ninth Annual Science and Math Educators Conference. (in collaboration with Reem Hout, Rawdah High School, Elementary)
- I carried out a year-long collaboration with a teacher at Rawdah High School, Elementary in which an innovative approach to teaching science with support for English language learners in Lebanese third grade classroom was piloted. Evaluation of the piloted teaching strategies will now commence.

Masters thesis supervision

- Completed MA thesis under my advisory supervision: Lamia Haddad

- MA thesis projects underway under my advisory supervision: Mazen Kotob, Hiba Najm, Lamaan Itani, Iman Salloum, Mona Bou-Azza, Inas Srour
- Member of MA thesis committee for the following graduates students: Hagop Yacoubian, Hayat Hokayem, Rima Basha, Rana Tayara

Services:

- Served on the following faculty and university committees:
 - Faculty of Arts and Sciences Admissions Committee
 - University Unified Admissions Committee
- Served on the following Education Department committees:
 - Curriculum and Examination Committee
 - Practice Teaching Committee, Chair

Fahmi Banafa

I was invited to lecture in the Regional Training Course on the Use of New Information Technology and Distance Learning in Teaching of Science, Syria on April 11-13 sponsored by the Islamic Educational, Scientific and Cultural Organization-ISESCO. I was one of two lecturers who introduced technology and distance education sessions for the whole three days of the Regional Training Course.

Services:

- I am a member in several Master thesis committees and adviser for a TD student.
- I conducted two sessions (three hour each) in instructional technology workshop for teachers from different disciplines in March 2006.
- I served a judge in the 2006 Science Fair held at AUB in May 2006.
- I assisted some faculty members to use computers and the Internet in their classrooms.

Saouma BouJaoude

Presentations and panels

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| May 2006 | Chemistry teachers' practices in public and private schools in Beirut. Paper presented at the Conference on Preparing Teachers for the Third Millennium, Al-Isra Private University, Amman, Jordan, May 18 and 19, 2006 (Co-authored with Dr. Zalpha Ayoubi, Lebanese University). |
| May 2006 | A theoretical model for the preparation of science teachers. Paper presented at the Conference on Preparing Teachers for the Third Millennium, Al-Isra Private University, Amman, Jordan, May 18 and 19, 2006 |
| April 2006 | Relationship between students' views about knowing and learning physics and their understanding of physics" (Faten Masri is co-author) Paper presented at the annual conference of the National Association for Research in Science Teaching (NARST) (San Francisco, April 3 – 6, 2006). |
| April 2006 | Contributed to a seminar on "Research Schools for Graduate Students: European and South African Models of Research Enculturation" sponsored by the NARST International Committee at the annual conference of the National Association for Research in Science Teaching (NARST) (San Francisco, April 3 – 6, 2006). |
| April 2006 | Contributed to a seminar on "European' and 'American' Perspectives on Research into Teaching and Learning" Sponsored by the European Science Education Research Association (ESERA) and NARST International Committee at the annual conference of the National Association for Research in Science Teaching (NARST) (San Francisco, April 3 – 6, 2006). |
| August 2005 | A decade of science education research in Lebanon (1992-2002). Trends and issues, paper presented as part of the NARST Sponsored Seminar at the 2005 European Science Educational Research Association (ESERA) conference, Barcelona, Spain (Coauthor: F. Abd-El-Khalick) |

August 2005 Teaching Authentic Science: Effect on Conceptual Change and Understanding the Nature of Science. Paper presented at the 2005 European Science Educational Research Association (ESERA) conference, Barcelona, Spain (Coauthor: F. Abd-El-Khalick)

Lectures, Consultations, and Workshops

- Participated in the summer and midyear workshops organized by the Department of Education.
- Provided consultation to Dhofar University, Salalah, Sultanate of Oman through REP.
- Coordinated the Nibras International School project through REP.
- Co-Chaired the Organizing Committee of the 10th Annual Science and Math Teachers Conference.
- Gave a lecture on active learning in science, Education Forum, Amman, Jordan.

Service to the Department, Faculty, University and the profession

- Chair, Department of Education, AUB
- Member of the University Senate, FAS Advisory COMMITTEE, University Strategic planning Committee
- Member of the international advisory board of the program of the conference "Science is Primary II" organized by Scienceduc, an EU supported project for promoting Inquiry based Science Education in European countries.
- Member of the Advisory Board of the Center for Applied Studies in Education (CASE) at Sharjah Women's College
- Served as an external examiner on the doctoral committee of Fadi El-Hage (Université St. Joseph, Lebanon and Univeristé de Montpellier, France), Khalid Khan, University of Science and Technology, Sana'a, Yemen, and Ahmad Al-Maashani (Cairo University).
- Member of the Executive Board of the National Association for Research in Science Teaching (NARST), USA and International Coordinator and Chair of the International Committee of the same association.
- Consulting Editor for International Review of Education, Edited by the UNESCO Institute for Education, Hamburg, Germany
- Member of the Editorial Board of the Eurasia Journal of Math, Science, and Technology Education, Turkey.
- Member of the Editorial Board of the Journal of Science Teacher Education.
- Member of the Editorial Board of the Electronic Journal of Science Education.
- Reviewer for Electronic Journal of Literacy Through Science and Journal for Research in Science Teaching.
- Contributing International Editor, Science Education, USA.
- Consulting Editor, African Journal of Educational Studies in Mathematics and Science.
- Board of Governors, Brummana High School, Brummana, Lebanon.
- Consultant to Dhofar University (Through an AUB Project)
- Consultant to Annibras International School, Dubai (Through an AUB Project)
- Member in the following associations in the USA: National Association for Research in Science Teaching, National Science Teachers Associations, School Science and Mathematics Association, Association for Science Teacher Education, and American Educational Research Association.
- Member of the European Science Education Research Association.
- Member of the Lebanese Association for Educational Studies, Lebanon

Amal BouZeineddine

- Chairperson of Graduate Comprehensive Examinations Committee/Elementary Education, 2003 to present
- Member of the Curriculum and Examinations Committee:
- Member of BA program reviewing team;
- Member of comprehensive examination purpose, procedure and format reviewing team;
- Member of TEFL Comprehensive Examination Committee
- Member of Practice Teaching Committee
- International Baccalaureate Organization (IBO), Member of the Education Committee. Attended three meetings, in November-Cardiff, UK; in February at AUB -Tele Conference; in April – Geneva
- LAES Executive Committee Treasurer 2006
- Center for Teaching and Learning Activities This year five seminars and one forum were offered: (1) Developing a Teaching Portfolio, offered twice; (2) Seminar on Teaching Strategies in Large Classes. (3)Two manuals were developed one on program learning outcomes and the other on course learning outcomes; (4)Faculty Seminar on Teaching and Learning Excellence; (5) Forum on ICE; (6) Designed and gave the syllabus design component in the Mellon Summer Course, July/August 2005. (7) A two- year plan for Developing Learning Outcomes has been reviewed to be implemented for FAS. (8) A CTL website was updated and published; (9) Academic Advising Guide was updated and posted on the Website.

Consultant

- Lebanon Publishing House, heading a team for developing an Arabic basal reader from grades K to 5, starting May, 2006
- On the founding team of an elementary school in Beirut owned by the Shammas / Sakr family, charged with the Language Arts curriculum English/Arabic, starting May 2006
- AlNibras School, Dubai
- Iqraa Group, April 2005 to June 2006
- American Institute for Research (AIR)/EDC, Aswan- Egypt, January, 2006

Workshops

- Arabic Workshops Coordinator and facilitator, Department of Education, September 2005, March 2006 topics covered methodology of instruction and critical thinking in the Arabic reading and grammar classes
- Iqraa Group, Writing books in Arabic for children, a 4-day
- Academic Adviser for undergraduate students in Elementary Education, and graduate students in Language Arts/ Elementary Education, Department of Education
- Member of University Committee: The Academic Advising Process Improvement Team (AAPIT) since September 2005 to present
- Education Pledge, Ceremony Organizer, 1999 to present
- PROFESSIONAL MEMBERSHIP: Association for Supervision and Curriculum Development; Lebanese Association for Educational Sciences; Teaching of English to Speakers of Other Languages.

Karma El-Hassan

- July 2005, gave a presentation on 'Quality in Education' in a conference on education reform in Lebanon.

- July 2005, submitted a proposal for the Middle East Airlines for an assessment battery to be used in recruiting cadet pilots. Proposal accepted, project successfully executed, and report with recommendations was submitted.
- September 2005 reviewed five manuscripts for AERA Division D for 2005 Annual Meeting
- November 2005, served on organizing committee of LAES Conference on Role, Content, and Quality of School Textbooks held in Beirut.
- November 2005, facilitated a faculty forum on Instructor Course Evaluation.
- November 2005, facilitated an education forum with Minister of Education on ‘Vision of Education Reform: Components of Reform’.
- December 2005, presented a paper titled ‘Peer Review: The American University of Beirut Experience’ in the Conference on Partnership for Knowledge: Policies of Higher Education Reform, December 7-9, Egypt.
- December 2005, attended a workshop on Teaching and Learning with Technology, AUB
- December 2005, reviewed manuscripts for Journal of Educational Studies.
- December 2005, served on committee formed by Prime Minister to oversee administrative reform and recruitment in Lebanese public sector.
- January 2006, submitted a proposal to Al Nibras School, UAE, for assessment of achievement of their students and provided consultation on the matter.
- March 2006, reviewed manuscripts for Higher Education Journal.
- March 2006, facilitated a two-day education forum on ‘Developing an Agenda for Research in Higher Education’ and, gave a presentation on ‘Education and Sustainable Development’.
- April 2006, facilitated a forum on ‘Evaluation system for Lebanon’.
- April 2006, participated in workshop organized by the Ministry of Education to discuss the new education strategy in Lebanon.
- April 2006, reviewed manuscript for Journal of Social Sciences.
- May 2006, participated in the AIR Annual Meeting, May 14-18. Attended three workshops, presented a paper and facilitated other sessions. Paper titled ‘Investigating Substantive and Consequential Validity of Student Ratings of Instruction’
- May 2006, received an invitation from World Bank to participate in a seminar held in France, June 18- 21, on quality assurance in higher education. Will present a short paper on higher education in Lebanon and quality assurance measures taken.

Other activities:

- Supervised five theses, served on committee of one other thesis.
- Graduate Advisor for Educational Psychology Test and Measurement students.
- Continued with annual institutional and teaching effectiveness activities.
- Taught two undergraduate courses.

Ghazi Ghaith

Advisor on Master’s Theses:

- Abisamra, N. (2006). The role of motivation, gender, and language learning strategies in EFL proficiency.
- Samad, H. (2006). The effect of combined strategy instruction on the comprehension and reader self-perceptions of a selected group of 8th grade EFL learners
- Shouman, H. (2006). The effect of reading strategy instruction on reading comprehension and students’ awareness of reading strategies.

- Houssami, M. (2005). A comparative study of the effect of student-generated and teacher-provided rubrics on writing achievement.
- Hawwa, R. (2005). Effect of teachers' feedback types on second language writing proficiency.
- Al Badawi, G. (2005). The effect of jigsaw II versus whole class instruction on EFL students' reading motivation and achievement

Presentations in International Conferences

- **Ghaith, G. M.** & Shaaban, K. (2005). Cooperative Learning and Pedagogical Content Knowledge in Teaching English. 4th. International Congress for English Coordinators and Directors of Studies. Buenos Aires, Argentina
- Shaaban K. & **Ghaith, G.M.** (2005). English in the Arab World. TESOL 39th convention and exhibition. San Antonio, Texas, USA.

Professional memberships

- Member of the editorial review panel of *SYSTEM*, An International Journal of Educational Technology and Applied Linguistics.
- Member of the editorial review panel of *TESL-EJ*.
- Reviewed manuscripts for *Language, Culture, and Curriculum*.
- Reviewed manuscripts for the *Journal of Social Affairs*.

Workshops

- Coordinated and implemented several in-service teacher training workshops under the auspices of the Department of Education. Recent topics include:
 - Teaching and Assessing Writing in the English Classroom (2006)
 - Teaching and Assessing Reading and Literature in the English Classroom (2006)
 - Teaching Reading and Literature in the Elementary School (2005)
 - Implementing the Learning Together Model of Cooperative in Teaching English and Other Languages (2005).
 - Assessment and Evaluation in Language Teaching (2005)

Consultations

- Provided consultation to the National College of Science and Technology, Sultanate of Oman (2003-Present).
- Provided consultation to Almana Group Hospitals in Saudi Arabia under the auspices of the Research and External Planning office of AUB (2003-Present).

Service to the University

- Member of the Graduate Committee of the Faculty of Arts and Sciences (June 2003-Present).
- Promotion Due Process Monitor (2004-2005)
- Representative of the Faculty of Arts and Sciences Graduate Admission Committee (2005-present)

Service to the Department of Education

- Coordinated the Graduate Student Research Forum (2005-2006).
- Coordinator of the Education Forum (2004-2005).
- Member of the Curriculum and Examination Committee of the Education Department of AUB

- Chairman of the TEFL sub-committee for the administration of the MA Qualifying Examinations
- Member of the Practice Teaching Committee of the Education Department of AUB

Marj Henningsen

Article Reviews

- One manuscript for Journal for Research in Mathematics Education

Center for Teaching and Learning

- Seminar for Teaching and Learning Excellence- I served as a session facilitator with Thurayya Arayssi (Medicine) in spring 2006 (Course Syllabi and Student Learning Outcomes)
- Learning Outcomes Task Team – summer and fall 2005

FAS Committee Service

- Student Affairs Committee 2004-2006
- Teaching Effectiveness Task Team for FAS, member
- Center for American Studies and Research (CASAR), member, CASAR Executive Committee (advisory to the director)

Thesis Advising

- Layal Tayara, Elem Ed (Defended August 2005, Effect of code switching on the quality of mathematical communication at the elementary level)
- Zeinab Zein, Math Ed (Final defense scheduled for June 5, 2006, Ninth grade student perceptions of mathematics curriculum)
- Shereen Sakr, Elem Ed (Proposal defended Nov. 2005, Enhancing number sense through use of children's literature)
- Rima Basha, Elem Ed (Proposal defended Feb. 2006, Lebanese teachers' beliefs about mathematics, teaching mathematics, and the learning environment)
- Sevine Nsouli, Elem Ed
- Hala Khoury, Elem Ed
- Ghinwa Itani, Educational Administration and Policy Studies
- Lama Rawdah

I am also serving on several other thesis committees:

- Lamia Haddad, Elem Ed (Defended March 2006)
- Lamaan Itani, Elem Ed (Proposal defended May 2006)
- Hiba Najm, Elem Ed (Proposal defended, May 2006)
- Mona Bou Azza
- Souad Achkar

Education Department Committees

- Curriculum and Examination Committee, Chairperson 2005- 6
- Graduate Admissions Committee
- Practice Teaching Committee
- Recruitment

Academic Advising

- Undergraduate- ~25 advisees
- Teaching Diploma in Elementary Education- 8 advisees

SMEC

- Director
- Co-chair/organizer of the SMEC teacher conference for November 2005. Currently organizing the 10th annual conference for November 2006. I served as an advisor and judge for the annual Science, Math, and Technology Fair in Spring 2006. I also gave remarks at the closing ceremonies on behalf of SMEC.
- Continuing to work with FPDU and Dr. BouJaoude to plan for renovation of the teaching lab (Fisk 208). Construction is set to begin Summer 2006.
- Facilitated completion of SMEC 9 published proceedings. In the process of preparing SMEC 10 published proceedings.

Workshops Presented

- Henningsen, M. (2005). Using Everyday Mathematics. (Workshop designed for An Nibras School), Dubai, August 24-25, 2005.
- Workshop on American Studies in the Middle East, 1st CASAR Conference on The Middle East in America and America in the Middle East, American University of Beirut, December 2005, with Patrick McGreevy.
- A National Video Study of Elementary Mathematics Lessons in Lebanon: Selected Results from the MARAL Project, Research Pre-Session of the 9th Annual SMEC Conference, November 2005, with Samar Zebian.
- Promoting Mathematical Communication: Examples from the MARAL Project, Practical-Interactive Session at the 9th Annual SMEC Conference, November, 2005.

Education Project Consultations

- Al Nibras International School, Dubai (REP, Education Dept.) – created intermediate and secondary curriculum frameworks, reviewed and made recommendations for text and supplementary materials to be used at the school, consulted with the owner about various issues, reviewed teacher candidate files and made recommendations for hiring.
- International School of Beirut, Beirut (Independent) - Informal consultation with owners on the creation of a new international school to be located near the National Museum. I have advised on various issues, including physical plant, recruitment, curriculum, and school organization. The school is scheduled to open from Nursery through Grade 2 in Fall 2007.

Awards

- Nominated for an award in Teaching Excellence for 2005-2006.

Murad Jurdak

- President of the Lebanese Association for Educational Studies (LAES) until December 2005.
- Reviewer for the Journal of Research in Mathematics Education (Official Journal of the National Council of Teachers of Mathematics)
- Reviewer for School Science and Mathematics Journal (Official Journal of the School Science and Math Association).
- Member of the School Science and Math Association (SSMA)
- Member of the International Group for the Psychology of Mathematics Education.
- Consultant to Al-Nibras School in Dubai, REP-sponsored project

- Prepared a math test for OIRA

Services

- Advisor to Teaching Diploma students in mathematics education
- Advisor to the graduate students in mathematics education
- Member of the Practice Teaching Committee
- Served on the task team appointed by the Provost. The team prepare a comprehensive plan to institutionalize the development of learning outcomes university-wide
- Contributed to the Faculty Seminar organized by the Center for Learning and Teaching
- Thesis Advisor for Three MA students
- Served on six thesis committees

Samar Mukallid

- Offering guidance to 5 graduate students in structuring an acceptable research proposal as a requirement of Educ. 321.
- Presented workshops that the Department provides.
- Currently preparing, with Dr. K. El-Hassan, a proposal to establish a resource center for psycho-Educational services. The proposal is based on Dr. BouJaoude's request to suggest ideas for utilizing a \$50,000 donation from AUB New York office to the Diploma program in Special Education.
- Attended the Annual Conference of the Association for Supervision and Curriculum Development (ASCD) in Chicago, USA.
- Participated and led a discussion group in the First Conference on Developing Literacy Skills in Arabic Language. The conference was held in Amman, Jordan and it was sponsored by Sesame' Street children's program main office in New York City.
- Will present a paper on the "inclusion of children with special needs in Lebanon. The paper will be presented in the First annual Forum on students with Special Needs, hosted by the Shafallah Center, Doha, Qatar. The Forum is organized by the Center for Outcomes and Opportunities at Teachers College, Columbia University.

Patricia Pederson

Presentations

- Pederson, P.V. (2005, Fall). The Impact of NCLB on the Social Studies. A highlighted panel presentation at the National Council for the Social Annual conference. Co-presented with Patricia Avery, Marcy Taylor-Thoma, and Donna Olszewski.
- Pederson, P. (2005, Fall). *Transmitting American Values: One Role of the Social Studies Textbook in the United States*. A keynote speech at the Lebanese Association for Educational Studies Conference.

Barend Vlaardingerbroek

- Review of a paper submitted to International Journal of Educational Development.

Service

- Departmental workshops: Experiments that Work, August/September 2005 and Diagnostic Testing in Science, March 2006.
- SMEC Research Colloquium: Delivered seminar on a comparative study of the status of evolutionary theory in undergraduate biology programmes in Lebanon and Australasia, 19 January 2006; assisted by Yasmine El-Masri.
- Student elections ballot box supervisor November 2005.

- Advisor for students entering and transferring to the B.A. Education major, from September 2005.

Winnfred O'Toole

Services:

- Designed and facilitated two workshops on leadership in urban schools at the University of Massachusetts, Graduate College of Education, Summer, 2005
- Masters Thesis Committees: Chair (6); Member (3)
- Workshops: Leadership for Learning and Change in Education, Sept. 2005
- Leadership for Learning and Change in Education, March, 2006
- University Committee: Member, AUB, Curriculum Committee, Fall, 2005 – present
- Outside University: Member, Dissertation Committee, Harvard University Graduate School of Education, January, 2006.

F. PUBLICATIONS:

Saouma BouJaoude

BouJaoude, S., Sowwan, S., & Abd-El-Khalick, F. (2005). *The effect of using drama in science teaching on students' conceptions of nature of science*. In Research and the Quality of Science Education, Boersma, K.; Goedhart, M.; de Jong, O.; Eijkelhof, H. (Eds.) (pp. 259-2670). Netherlands: Springer.

BouJaoude, S. (2005). Improving Science Teaching Methodology at the University Level: Synchronizing the Teaching Approaches at the Secondary and University Levels. In UNESCO National Committee (Ed.), *Proceedings of the International Conference on Teaching Science at the University level* (112-130). Beirut, Lebanon: UNESCO National Committee.

BouJaoude, S., & Ghaith, G. (2006). *Educational Reform at a Time of Change: The Case of Lebanon in Education Reconstruction in Transitional Societies*, in Ernest, J. & Treagust, D., (Eds.) (pp. 193-210). Netherlands: Sense Publishers.

Karma El-Hassan

El-Hassan, K. (2006). Validation of an Instructor Course Evaluation System. *Journal of Educational Sciences*.

El-Hassan, K. (2006). Evaluation of the Newly Implemented Assessment System in Lebanon. *Evaluation*.

El Hassan, K., & Shukri, R. (2005). The Effect of Brain-Based Techniques on Problem-Solving Performance of Grade 4 and 5 Low and High Achieving Students. *Journal of Learning Disabilities*.

Ghazi Ghaith

Ghaith, G.M. & Shaaban, K. (2005). Cooperative Learning for the Disaffected ESL/EFL Learner. *International Journal on School Disaffection*. 3(2), 44-47.

BouJaoude, S., & Ghaith, G. (2006). *Educational Reform at a Time of Change: The Case of Lebanon in Education Reconstruction in Transitional Societies*, in Ernest, J. & Treagust, D., (Eds.) (pp. 193-210). Netherlands: Sense Publishers.

Shaaban, K. & Ghaith, G. M. (2005). The Theoretical Relevance and Efficacy of Using Cooperative Learning in the ESL/EFL Classroom. *TESL Reporter* 38 (2), 14-28.

Barend Vlaardingerbroek

- Vlaardingerbroek, B. (2005). Smoothing the secondary–further education interface: Developments in New Zealand following the National Qualifications Framework reforms. *Journal of Vocational Education and Training*, 57, 411-418.
- Vlaardingerbroek, B. (2005). Standards-based assessment with a difference: The impact of the New Zealand National Qualifications Framework reforms on secondary school science. *International Journal of Educational Reform*, 14, 321-336.
- Vlaardingerbroek, B. (2006). Transition to tertiary study in New Zealand under the National Qualifications Framework and ‘the ghost of 1888’. *Journal of Further and Higher Education*, 30, 75-85.

G. FUTURE DEVELOPMENTS

1. Efforts to recruit faculty for the vacant positions in education will continue. The Department was not successful in recruiting faculty members in educational psychology and elementary education this year. Efforts to recruit faculty members in these and other areas such as educational administration (One faculty member in this area will not continue with the Department beyond September 2007) will be intensified during 2006-2007 because of the pressing need for faculty members in these areas.
2. The Department plans to continue organizing the Education Students Research Forum to encourage students to share their research with interested individuals. The Forum is its second year. We plan to widen the scope of the Forum to include Education Graduate Students from other institutions and BA Education students from AUB.
3. Room 208 (The SMEC Multipurpose Room) will be renovated and refurbished this summer. We plan to transform into a state of the art multipurpose room.
4. Work will continue on the design the BA program. In addition, we plan to star a review of the graduate program.
5. The Department plans to establish a Psycho-Educational Resources and Training Center (PERT) through a generous grant for an anonymous donor. This center will focus on training special education and educational psychology students.
6. A number of faculty members in the Department have developed a research proposal to conduct research on Reform in the Arab Sates. The Department will attempt to secure support for this proposal in collaboration with the AUB Development Office.

Saouma BouJaoude
Chairperson

**AMERICAN UNIVERSITY OF BEIRUT
FACULTY OF ARTS AND SCIENCES
DEPARTMENT OF EDUCATION
SCIENCE AND MATHEMATICS EDUCATION CENTER**

**SMEC Annual Report
(July 1, 2005 - June 30, 2006)**

**Submitted by
Dr. Marj Henningsen, Director**

PERSONNEL:

Full-Time Faculty

Dr. Tamer Amin	Science Education
Dr. Saouma BouJaoude, Chair, Department of Education	Science Education
Dr. Marjorie Henningsen, Director, SMEC	Math Education
Dr. Murad Jurdak	Math Education
Dr. Barend Vlaardingerbroek	Science Education

SMEC Staff:

Ms. May Abu Shakra	Clerk Stenographer
Mr. Hanna Helou	Lab Attendant
Ms. Mary Assaad	Student Librarian
Mr. Hadi Mansour	Student Librarian (Work study scholarship)
Mr. Kevork Sarafian	Student Librarian (Work study scholarship)
Mr. Bilal Olabi	Student Assistant (Work study scholarship)

PROGRAMS AND ACTIVITIES

The following activities took place in SMEC between July 1, 2005 and June 30, 2006:

SMEC faculty teaching and service activities:

Please refer to the annual reports of the faculty members presented to the Department of Education.

SMEC Faculty Research:

Please refer to the annual reports of SMEC faculty members presented to the Department of Education.

Workshops:

Please refer to the annual reports of the SMEC faculty members presented to the Department of Education.

Sponsored Research Colloquium:

Dr. Barend Vlaardingbroek and Yasmine El-Masri, A comparative study of the status of evolutionary theory in undergraduate biology programs in Lebanon and Australasia, presented in West Hall Auditorium B, January 2006.

Math and Science Education in Lebanon Research and Policy Forum

SMEC faculty in collaboration with the MARAL project held a National Forum on Relating Research, Theory, Policy, and Practice at AUB, September 24, 2005. The primary aim of the event was to engage a variety of stakeholders (including teachers, coordinators, principals, MPs, Ministry of Education and CERD officials, NGO representatives, etc) in a conversation and debate on important policy considerations for basic mathematics and science education in Lebanon. The debate was grounded in the presentation of actual data from a variety of sources, including TIMSS, CERD-sponsored research, the MARAL project, and other local studies of classroom processes. There were panel speakers from AUB, Balamand University, the Ministry of Education, CERD, private and public school teacher syndicates, Al-Hoda School, Antonine Sisters, and Omar Mukhtar Educational Center. All SMEC faculty participated in the planning and as presenters along with Dr. Samar Zebian from the Psychology Department in SBS and Ms. Hana Addam, an MA student in the Education Department.

Annual SMEC Conference (SMEC 9):

SMEC 9 was held November 18-19, 2005 on the AUB Upper Campus (including West Hall, Assembly Hall, Nicely, Fisk, and Bliss). The conference was co-sponsored by AUB and UNESCO-Cairo. SMEC 9 was the most well-attended SMEC conference to date with around 750 participants representing many countries. For the full slate of speakers and presentations, please see the attached "At a Glance" schedule. An article about the conference also appeared in AUB Bulletin Today (January 2006, Vol. 7, No. 3). This year we deposited approximately \$18,595.81 (in checks, US\$ and L.L.).

Proceedings for SMEC 8 and 9

Editing for the conference proceedings for SMEC VIII was completed. The proceedings were distributed primarily on CD-ROM at SMEC 9 and by mail. The proceedings for SMEC 9 are currently undergoing the preparation and editing process and will be completed in summer 2006. The Proceedings are sponsored by UNESCO-Cairo in conjunction with SMEC.

Preparation for Annual SMEC Conference (SMEC 10) and the International Symposium:

Planning is well underway for the Tenth Annual SMEC conference. The conference format for SMEC 10 has changed slightly and the conference has been renamed "Science and Math Educators Conference." Dr. Henningsen and Dr. BouJaoude will again serve as overall co-chairs of the SMEC 10 conference. A committee consisting of local teachers, professors and coordinators have been designated to participate in proposal review for the main conference. This year we will also collaborate with the Math Education into the 21st Century Project to present an International Symposium of Math and Science Education in the Elementary Grades. Many presenters will participate in both meetings. For full details and the complete call for proposals please see: <http://staff.aub.edu.lb/~websmec> (Call for proposals in English and Arabic). We are in the process of finalizing keynote speakers for both parts of the conference. Thus far two publishing companies have agreed to sponsor keynote speakers for the teacher conference and the Dean of Arts & Sciences has also agreed to support speakers. UNESCO-Cairo has also agreed to give us funding again.

Finally, the Fifth Annual Publishers Exhibit in conjunction with SMEC 10 is being organized by Dr. Marj Henningsen. Thus far all the major publishers have agreed to participate and contribute material support for the conference in the form of sponsorship of guest speakers, program advertisements, and prizes for participants.

SMEC Library:

The SMEC library continues to serve as a valuable resource and study center for both pre-service and in-service teachers and for BA and Teaching Diploma students in the department of education. The library is open daily M-F from 8 am - 4 pm and is always attended by SMEC staff members or a student librarian. The library catalog system has been revamped and a complete inventory of the library holdings is near completion.

Science, Math, and Technology Fair:

SMEC and the Education Students Society (ESS) organized the 13th Annual Science, Mathematics, and Technology Fair, which was held May 6-7, 2006. Twenty-five schools from all regions of Lebanon participated in the Fair. The Fair took place in and around West Hall. More than 50 awards trophies and medals were awarded in Assembly Hall on May 7th. Judges in the Fair included AUB faculty members from FAS, Engineering, and Health Sciences, and senior Education students specializing in Math and Science, Teaching Diploma Students, and MA students. Each participating child received a certificate of participation. (See <http://staff.aub.edu.lb/~websmec> for a copy of the full Fair announcement). Also, for the first time, special awards were also given by the Faculty of Health Sciences for projects related to the Environment.

SMEC Website:

The SMEC Website (<http://staff.aub.edu.lb/~websmec>) was updated regularly. The Website includes information about SMEC activities, conference proceedings, SMEC Faculty, SMEC Staff, and the SMEC Library.

Renovation of Room 208:

Planning has continued for the renovation of Room 208, the SMEC classroom and teaching laboratory. Computers for the wireless lab have been acquired and we are currently ordering new software and other minor equipment. Construction should begin summer 2006.

SMEC 9 CONFERENCE SCHEDULE AT- A-GLANCE

FRIDAY NOVEMBER 18, 2005

The Publishers Exhibit will open at 10:00am in West Hall Common Room

Note: (E) = English, (A) = Arabic, (F) = French

9:00 am -9:15am	Welcome by Dean Bitar, Faculty of Arts and Sciences Welcome by Dr. Marj Henningsen, SMEC
9:15 am – 10:30am	Plenary Session - Education Research (E) Tentative Title: Ethics in Educational Research: An Agenda for Discussion <i>Dr. Hugh Busher, University of Leicester, UK</i> Bathish Auditorium, West Hall Sponsored by SMEC
10:30am – 10:50am	Break – West Hall 2 nd Floor Terrace

10:50am – 12:05pm RESEARCH CONCURRENT SESSION A

Science West Hall 204		
جامعة آل البيت ت- كلية العلوم التربوية ، الأردن	د. علي مقبل العليمات	تأثير طريقتي العصف الذهني والاكتشاف في تدريس العلوم في تنمية التفكير الإبداعي لدى طلبة الصف الثامن الأساسي في الأردن.
جامعة آل البيت – الأردن	الدكتور سالم عبد العزيز الخوالده	فاعلية استراتيجية دورة التعلم واستراتيجية خريطة المفاهيم في التحصيل في الأحياء واكتساب مهارات عمليات العلم لدى طلبة الصف الأول الثانوي العلمي
كلية التربية – جامعة البصرة	م.م.د. فاضل عبد الزهرة مزعل سيتا آرام كيورك	بناء أداة لقياس الوعي البيئي لدى تلاميذ الصف السادس الابتدائي
Math West Hall Aud. B		
American University of Beirut	Marjorie Henningsen and Samar Zebian	A National Video Study of Elementary Mathematics Lessons in Lebanon: Findings from the MARAL Project
College of Education, Zayed University, Dubai, United Arab Emirates	Robin Dada, Kathleen Jongsma, Eugene Jongsma, and Kenneth Carr	The SAMIE Project: Teaching Science and Mathematics in English in Grades 1 and 2 in Four Model Schools in the Abu Dhabi Educational Zone, United Arab Emirates
جامعة الأنبار، كلية التربية، الأنبار ، العراق	م.م.د. عبدالواحد حميد ثامر الكبيسي، و م.م. مصطفى إسماعيل نايف	تشخيص الأخطاء الشائعة والأساسيات في الرياضيات والتي تؤثر على تحصيل طلبة المرحلة الإعدادية وما بعدها

12:00 Noon	Official Registration Begins for the Main SMEC V9 Conference In Front of West Hall
12:15pm – 1:30pm	RESEARCH CONCURRENT SESSION B

Science West Hall 204		
American University of Beirut	Hayat Al-Hokayem	College Students' Perceptions of the Theory of Evolution
جمهورية مصر العربية - المنصورة - كلية التربية جامعة	أ.د. عبد السلام مصطفى عبد السلام	فعالية أنموذج بنائي مقترح في تصويب تصورات تلاميذ الصف الخامس الابتدائي عن مفهوم الطاقة.
كلية التربية الأساسية - جامعة ديالى - بعقوبة - العراق.	الأستاذ المساعد الدكتور علي مطني علي	أسلوب مقترح لقياس تعلم المفاهيم الفيزيائية باعتماد سماتها.
Math West Hall Aud. B		
كلية العلوم التربوية - الجامعة الأردنية - عمان - الأردن	د. خالد محمد أبو لوم	أثر فهم المسألة الرياضية اللفظية بالطريقة التعاونية في قدرة طلبة الصف التاسع الأساسي على حلها في الأردن.
الجامعة الأردنية وجامعة الأسراء الخاصة	د. سميلة أحمد الصباغ	The effect of the training program for developing numeracy on the achievement and numeracy for third grade students in Jordan.
وزارة التربية - معهد اعداد المعلمين ، الرصافة - بغداد جامعة ديالى / كلية التربية/قسم علوم الحاسبات	د. رياض فاخر حميد د. فائزة عبد القادر عبد الرزاق	أثر تدريب طالبات الصف الثالث المتوسط على استراتيجيات مقترحة لحل المسائل الرياضية في تحصيلهن وقدرتهن الاستدلالية

1:30 – 2:30	LUNCH BREAK – Visit any of the many delicious eateries on or near Bliss Street or the fabulous AUB cafeteria on campus
2:30 – 4:00pm	RESEARCH CONCURRENT SESSION C

Science West Hall 204		
جامعة آل البيت - الأردن	د. سليمان أحمد القادري	أثر تدريس العلوم باستخدام المنحى المنظومي المعرفي الشامل " في اكتساب المفاهيم العلمية لدى طلبة الصف الرابع الأساسي.

جامعة الإسراء الخاصة	د. سميرة عزمي المحتسب	إدراك طلبة المرحلة الثانوية في الأردن لبيئة التعلم الصفية في حصص الفيزياء وعلاقته بدرجة معرفة معلمهم بالنظرية البنائية
Lebanese University	Dr. Andre Thoumy	Comprehension d'une narration d'expérience par des enseignants Libanais de biology.
Math West Hall Aud. B		
كلية التربية – جامعة الموصل – بغداد	ايناس يونس مصطفى العزو رائدة نزار المختار	تقويم أنماط التفاعل الصفّي لمدرسي الرياضيات في المرحلة الإعدادية في مدينة الموصل
جامعة ديالى /كلية التربية/قسم علوم الحاسبات	د. فائزة عبد القادر عبد الرزاق د. رياض فاخر حميد	قياس مستويات فهم تلامذة المرحلة الابتدائية في مادة الرياضيات.
وزارة التربية – معهد اعداد المعلمين ، الرصافة – بغداد University of Balamand, Lebanon	Rouadi (EL), Naim	Students' Alternative Conceptions and Models in Mathematics and Science
Ecole Supérieure des Sciences et Techniques de Tunis 5, Avenue Taha Hussein B.P 56 Bab Ménara 1008 Tunis Tunisie	TANGOUR Mondher	Analyse des Acquisitions des Élèves En Mathématiques Et En Sciences en Première Année du Collège

MAIN CONFERENCE BEGINS	
4:00 – 4:30	<u>Opening Ceremonies for the Main SMEC 9 Conference</u> Bathish Auditorium, West Hall National Anthem, AUB Alma Mater Remarks: Waddah Nasr, Associate Provost, AUB; Khalil Bitar, Dean of FAS; Saouma BouJaoude, Co-Chair SMEC 9
4:30– 5:45 Plenary Session	<u>Plenary Session –Math and Science – (E)</u> Modeling Nature <i>Leona Schauble and Rich Lehrer, Vanderbilt University, USA</i> Bathish Auditorium, West Hall <i>Sponsored by Faculty of Arts and Sciences</i>

SMEC 9 CONFERENCE SCHEDULE AT-A-GLANCE

SATURDAY NOVEMBER 19, 2005

The Publishers exhibit will open at 10:00am in West Hall Common Room

8:00 am – 9:00 am Registration – In front of WEST HALL				
9:00 am–10:30 am	Title	Presenter	Level	Room
Plenary Session Science	Current Understanding of the Fundamental Forces of Nature <i>Sponsored by the AUB Faculty of Arts and Sciences</i>	Dean Khalil Bitar	All Levels (E)	Assembly Hall
Plenary Session Math	Making Mathematics Accessible: Best Practices for Diverse Classrooms <i>Sponsored by Harcourt International</i>	David Chard	All Levels (E)	Bathish, West Hall
10:30 am – 11:00 am Break and Publisher’s Exhibit – Open all day				
11:00 am–1:00 pm	Title	Presenter	Level	Room
	50 Good Ideas for Your Math Lessons <i>Sponsored by Heineman-Ginn</i>	David Kirkby	Elementary Math (E)	West Hall Auditorium B
	Preventing Mathematics Difficulties in Young Children <i>Sponsored by Harcourt International</i>	David Chard	Elementary Math (E)	Bathish Auditorium, West Hall
	New Technologies in the Mathematics Classroom: Tools and Ideas	Fida Atallah and Robin Dada	Elementary/ Intermediate Math (E)	
	المتعددة الذكاءات عملية على وانعكاساتها والتعليم التعلم	Sumaileh Sabbah	(A)	Bliss 203
	التدريس من المنظور البنائي	Abdulsalam Mustafa Abdulsalam	(A)	Nicely 414
Extended Workshops: LIMITED ENROLLMENT	How Technology Use in the Mathematics Classroom Enhances Student Understanding <i>Sponsored by Pearson Education</i>	Cynthia Crippin	Elementary Math (E)	Nicely 415
Limit 20	Bacterial Growth in the Laboratory	Medhat Khattar	Secondary Science, Advanced Biology	Room 312, Biology Dept.
Limit 16	Modeling Data <i>Sponsored by Faculty of Arts and Sciences</i>	Rich Lehrer and Leona Schauble	Elementary Math and Science (E)	Fisk Hall 104
	Efficient Tools (Performance Tasks) for Teaching Chemistry	Nizar El Mehtar	Secondary Science (E)	Nicely 206
	Reasoning in Elementary Classes	Ferial Moghrabi	Elementary Math (A)	Nicely 325
	Le pavage et le calcul d'aire	Naim Rouadi	Intermediate Math (F)	
	La place de l' élève dans l' apprentissage scientifique scolaire	Andrée Chaoui	Elementary and	

		Intermediate Science (F)		
Limit 20	Simplicity is the Ultimate Sophistication	Hussam Kast i	Secondary Math (E)	Fisk Hall 102
11:00am-12:00noon	Title	Presenter	Level	Room
CONCURRENT SESSION I Practical/Interactive & Research Into Practice Sessions	The Alliance of Assessment and Technology in K-12 Education	Bassem Kandil	All levels Math and Science (E)	
	Teaching Arithmetic for Elementary School Students Using Innovative Software Based on Students' Alternative Conceptions and Models	Hiba Othman	Elementary Math (E)	
	Steps to Implement Character Education	Reem Al Hout	All Levels Math & Science (E)	
	New Instructional Technology: Simulation of Scientific Practical Work in Physics	Liliane Bsaibes	Secondary Science/Tech (E/A)	Fisk 102 Computer Lab
	Extending Hands-on Inquiry Activities to the Chemistry Classroom	Mona El Chami	Intermediate Science (E)	
12:00noon- 1:00pm	Title	Presenter	Level	Room
Practical/ Interactive Sessions	Science education classroom research: Findings and implications to practice	Saouma BouJaoude & Zalpha Ayoubi	Secondary Science (E)	
	Graphic representations as elements of Scientific Communication	Andrée Thoumy	All levels Science (F/E)	
	Nanotechnology at Hand	Zarifeh Jarjour	Intermediate & Secondary Science (E)	Fisk 208
	Investigating the Pythagorean Theorem and Some of its Many Proofs in the Middle School Math Classroom	Tarik Al-Khal & Diseree A. Zayek	Intermediate Math (E)	
	Bringing Educational Research Tools into the Science (Chemistry) Classroom: Outcomes from the Training Program for In-service Teachers in Lebanese Public Schools	Suzanne El Takach	Science Intermediate and Secondary (E)	
Visit the Publishers Exhibit		West Hall Common Room		
1:00pm-2:15pm	LUNCH BREAK Visit the fabulous AUB Cafeteria or the many eateries on Bliss Street			
2:15pm – 3:15pm	Title	Presenter	Level	Room
CONCURRENT SESSION II Practical/Interactive & Research into	Micro-organisms in Our Daily Lives ENROLLMENT LIMIT 20	Suheir Sleiman and Mary Therese Tutunji	Intermediate and Secondary Science (E)	Fisk Hall 208
	Writing in Science and Math: Lessons Learned from Primary Grade Students and Their Teachers in the United Arab Emirates	Kathleen Jongsma and Eugene Jongsma	Elementary Math and Science (E)	

Practice Sessions	Creative Visual Explanations of Mathematical Concepts <i>Sponsored by Heinemann-Ginn</i>	David Kirkby	Elementary Math (E)	West Hall Room 204
	Mathematical Modeling: A Step Forward to Live, Use, and Practice the Math We Learn	Maha El Hariri	Intermediate & Secondary Math (E)	
	Effective Use of Environment in Science Education <i>Sponsored by Pearson Education</i>	Armagan Ateskan	Intermediate Science (E)	
	Promoting Mathematical Communication: Examples from the MARAL project	Marjorie Henningsen	Elementary Math (E)	West Hall Auditorium B
	How a Science Lesson Plan can be Implemented/planned for Early Elementary Classes in Order to Make the Subject More Enjoyable <i>Sponsored by Houghton Mifflin</i>	Ramzi Ataya	Elementary Science	
	Using Technology in the Teaching of Physics and Math	George Rizkallah & Cezar Wazen	Secondary Science and Math (E)	Fisk Hall 102 Computer Lab
	Share the Experience! Problem Solving is No More a Problem (Developing student-authored problem solving books)	Fadia Abu Najem & Amal Malaeb	Elementary Math (E)	
	An Interactive Session on Integrating Science, Maths, Computing, and English Language Using A Cooperative, Collaborative and Team Teaching Method of Delivery	TomLe Seelieur	All Levels Math & Science (E)	
	New Instructional Technology: Simulation of Chemistry Lab and Practical Work	Liliane Bsaibes	Secondary Science (E)	
BREAK				
VISIT PUBLISHERS!				
3:30 pm – 4:30 pm	Title	Presenter	Level	Room
SPECIAL PLENARY	Teaching Gifted Students: A Challenge or a Gift	Kathie Sarouphim	All Levels Math and Science (E)	Bathish Auditorium, West Hall
	Thinking About Uncertainty	Manal Nadim Malaeb	Secondary Math (E)	
	Problem Solving Strategies for Routine and Non-Routine Problems	Bety Koleilat	Elementary Math (E)	
	<u>Using Portfolios in Science Classrooms</u>	Noha Aoun Mazraani	All levels Science (E)	
	Teaching Science to English Language Learners	Tamer Amin & Reem Hout	Elementary Science (E)	
Practical-Interactive Sessions	Learning with Inquiring Minds	Samar Khateeb Kandeel & Sawsan Mikati Kibbi	Upper Elementary and Intermediate Science (E)	

(Concurrent)	A Reflective Activity: Using Historical Events in Genetics to Teach about the Nature of the Scientific Enterprise	Hagop A. Yacoubian	Intermediate and Secondary Science (E)
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