

أربعون سنة من العطاء
2012

ASSOCIATION OF EGYPTIAN AMERICAN SCHOLARS

رابطه العلماء المصريين في أمريكا

Egyptian American Scholars

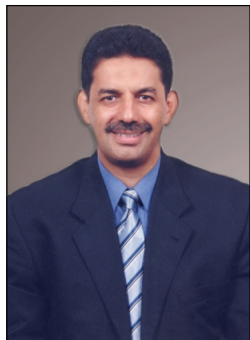


40 Years of Giving أربعون سنة من العطاء

Association of Egyptian American Scholars

رابطة العلماء المصريين بأمريكا وكندا

Message from the President



Dear Colleagues,

It gives me great pleasure as the ninth president of the Association of Egyptian American Scholars (AEAS), to present to you our first Directory. The issuance of this Directory comes as part of our 40th Anniversary celebrations. AEAS was established in the USA and Canada in 1974 by Dr. Mohamed Al Wakeel and his colleagues. It is with Sadness, we learn that Dr. Mohamed Al Wakeel has passed away earlier this year. However, we were all very happy that the Association which he established still live to date.

Since its establishment, AEAS has contributed abundantly to the scientific and cultural advancement in Egypt. In order to achieve its mission, AEAS members have also collaborated throughout the years with many organizations in Egypt. These organizations include: the President's office, the Prime Minister's office, different Ministries such as the Ministry of Higher Education, Ministry of Industry and the Ministry of Electricity, the Supreme Council of Universities, the Academy for Science and Technology and The National Authority for Quality Assurance and Accreditation in Higher Education.

AEAS also collaborated with different Universities such as: Ain Shams University, Zagazig University, Suez Canal University, Cairo University, University of Alexandria, Fayoum University, Nile University and Egypt Japan University. Collaboration also took place with the National Research Center and the Building and Housing Research Center. Major partners and collaborators were always the Cultural offices in Washington, USA and Montréal, Canada.

This edition of the directory includes a good part of AEAS's establishment, history, membership and collaborative initiatives. It is intended to produce and renew this Directory regularly in order to allow an opportunity to include more of the initiatives that were performed throughout AEAS history and to also include the profiles of many of AEAS's members and past officers.

Thank you to everyone who has contributed to AEAS; your hard work and dedication is what has made AEAS as successful as it is today.

Dr. Mohamed Attalla, P.Eng., FCSCE

Assistant Vice President, McMaster University

President, Association of Egyptian American Scholars

Established in Canada and USA in 1974

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أَحْنُ إِلَيْكَ

Dr. Amer El-Ahraf

أَحْنُ إِلَيْكِ يَا مِصْرَ يَا حَبِيبَةَ
أَحْنُ لِمِيَاهِ النِّيلِ
وَبَاسِقِ النِّخِيلِ
وَصَبِيَّةِ بَضْفِيرَتَيْنِ تَتَهَادَى
عَلَى شَاطِئِ تَرَعَةٍ
فِي رِفْكَ الْأَصِيلِ
أَحْنُ إِلَيْكِ
يَا مِصْرَ يَا حَبِيبَةَ

أَحْنُ لِكُلِّ مَا فِيكِ
أَحْنُ لِيَوْمِ الْعِيدِ
وَالدَّارِ مَمْلُوءَةٍ
بِالْأَهْلِ وَالزَّوَارِ
بِبَنَاتِ الْعَمِّ وَأَبْنِ الْخَالِ وَالْجَارِ
بِأَحَادِيثِ الْكِبَارِ
وِثَرْتَةِ الصِّغَارِ
أَحْنُ إِلَيْكِ
يَا مِصْرَ يَا حَبِيبَةَ

أَحْنُ لَأَيَّامِ الطُّفُولَةِ وَالصَّبَا وَرَبِيعِ الشَّبَابِ
وَأَصْدِقَاءِ وَنَعَمِ الْأَصْدِقَاءِ
أَحْيَاءِ فِي مَوْطِنِي

ذكريات في غربتي
أينما كنت
أحباء.... أحباء
أحن لكل مافيك يامصر يا حبيبة

أحنُ إلى معالم حسنك
في ربوع أرضك
من السلوم إلى طابا
ومن العريش إلى النوبة
أحنُ إليك يا مصر يا حبيبة

أحنُ لرموز مجدك
في عمق تاريخك
في الفسطاط أو طيبة
في برديات تسجل طباً وفلسفةً
حساباً وهندسةً
حتى صرت في العلم
فتناً وأسطورة
تحكي جيلاً بعد جيل
ترسم صورةً لحضارة
وما أجمل الصورة

أتوق إلى مستقبل
مثل غابر مجدك
مشرق وسعيد
ومجدك يا مصر عائد يوماً
يوماً عائد
وذلك اليوم ليس ببعيد

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AEAS Mission Statement

To create a forum for North American Egyptian Scholars that facilitates dialogue and promotes partnerships with Egyptian counterparts to implement beneficial scholarly endeavors.

AEAS Bylaws

I. *Name*

The name of the association is "Association of Egyptian-American Scholars, Inc."

II. *Principal Office*

The principal place of business of this association is Madison, Wisconsin.

III. *Nature of the Association*

The Association of Egyptian-American Scholars is a non-sectarian, private, non-profit, educational, cultural, non-political, association of scholars of Egyptian origin who are either citizens or permanent residents of the United States and Canada.

IV. *Purposes*

To promote and improve Egyptian-American cultural and scientific relations through the development and implementation of specific programs of interest and value to the cultural and scientific development of Egypt.

V. *Membership*

1. *Classification:*

REGULAR membership is open to those of Egyptian origin who are citizens or permanent residents of the United States and Canada, and whose background and experiences fall within the cultural and scientific purposes of the Association and whose interests coincide with those purposes.

ASSOCIATE membership is open to those of Egyptian origin who are on a temporary stay in the U.S. or Canada, but otherwise meet regular membership requirements.

SPECIAL membership is open to those not of Egyptian origin who have qualifications and interests to contribute to the purpose of the Association.

2. Procedure:

To become a member, the applicant must be recommended by the local chapter, if one exists. If a local chapter does not exist, then the applications must be recommended by two regular members of the Association, and be approved by a simple majority of the Board of Directors of the Association.

3. Dues

Each member shall pay annual membership dues in such an amount as fixed by the Board of Directors annually.

4. Voting Rights

Voting rights are afforded only to regular members.

VI. Programs and Activities

1. The Board shall develop programs and activities within the scope of the Association's purposes, and in particular the Visiting Scholar Program and the Science Education Fund.
2. The Visiting Scholar Program is a cultural-scientific program in which scholars of Egyptian origin who reside in the United States and Canada and who have achieved recognized academic or professional status through demonstrated expertise in their field, and whose knowledge and experience may be needed in Egypt, would be invited by Egypt to provide such services as they might be able to perform.

The Association will, in conjunction with a counterpart organization in Egypt, assist in matching registered scholars to needed expertise. The final decisions as to the number and type of scholars to be invited at any one time is up to the Egyptian authorities. The registered must also be members of the Association.

3. The Science Education Fund is established to help supply scientific equipment and material to Egyptian educational research institutions. The Fund is collected as part of the annual membership dues as well as from additional voluntary contributions.

VII. Meetings of the Membership

1. There shall be annual meeting of the membership and such other meetings as the Board or membership may schedule.

2. Meetings may be held in Egypt or anywhere in the U.S.A. or Canada, as Membership may decide.
3. Meetings shall be called by an affirmative vote of the Board of Directors at the request of 25% of the regular members.
4. Notice of such meetings shall be in writing at least 30 days prior to any such scheduled meeting.
5. The quorum shall be 20% of the membership of which 10% must be physically present.
6. Voting by proxy is permitted provided that the proxy is in writing and verified by the Secretary.

VIII. *Financial Resources*

The Association shall derive its financial resources from dues and contributions of members and other sources which are acceptable to the Board within the scope and purposes of the Association.

IX. *The Board of Directors*

1. The Board of Directors shall consist of five elected regular members, and all presidents of Local Chapters ex officio. Only five elected regular members shall be voting. The outgoing president of the Association shall also be ex officio member.
2. Officers
The officers shall be a president, two vice presidents, a secretary and a treasurer, who shall be elected from among the Directors by the membership.

The President shall chair all meetings of the Association or, in his absence, one of the Vice Presidents, and shall be responsible for the management of the Association within the scope of its purposes subject to the policies established by the Board.

3. Treasurer

The Treasurer shall be in charge of handling all funds for the Association and shall deposit in a bank, approved by the Board, all the funds received, make all disbursements in accordance with the approved budget; have the right to sign checks. The Treasurer shall be responsible for keeping the financial records of the Association, and shall report annually to the membership.

4. Nomination of Directors and Officers

- A. All nominations shall be made by the regular members and sent to the

Secretary who shall compile a list of nominees and a brief biographical sketch, and send a written ballot to all regular members thirty days prior to each annual meeting.

- B. Members can vote by written ballot to be sent to the Secretary who shall have the members proxy to vote in accordance with the said ballot.
- C. All written ballots shall be verified by the Board.

5. Term of Office

Term of Office of all Directors and Officers shall be two calendar years from the date of election. No director or officer can serve more than two consecutive terms.

6. Local Chapters

- A. At least ten regular members can establish a local chapter subject to the approval of the Board.
- B. Each local Chapter shall elect its own officers.
- C. Local Chapters shall act within the scope and purposes of the Association and shall be guided by the policies of the Board.
- D. Local Chapters may establish membership dues.
- E. Membership in local Chapters is open only to members of the Association.
- F. Members of the Association are invited to become members of local Chapters where available but are not required to do so.
- G. Local Chapters may not solicit nor accept financial contributions other than membership dues except with the approval of the Board.
- H. Local Chapters must submit an annual accounting to the Board.

X. *Amendments*

Amendments to the Bylaws must be by a majority vote of all the regular.

AEAS History



First Biannual Egyptian-American Scholars conference held under the auspices of President Mohamed Anwar Sadat, December 1974

The idea of creating the Egyptian-American scholars association started by a discussion between Dr. Mohamed El-Wakil of Wisconsin and Dr. Ahmed Shouman of New Mexico in 1968. They both pursued the formalization of the group supported in Cairo by the Egyptian government and the Society of Friends of Egyptian Scholars Abroad. In 1971, fifteen Charter members were declared, and by 1972 the registration list reached 62 members. In 1973, the Association of Egyptian-American Scholars in the United States and Canada was formally established, and by 1974 it was officially incorporated in the State of Wisconsin, with Dr Mohamed El-Wakil as its President. Through the years close to 600 scholars have joined the Association, very many are still active and supportive.

Since 1974, the Association of Egyptian-American Scholars has contributed abundantly to the scientific and cultural development of Egypt on one hand, and to the academic collaboration of its members in North America. A few examples of these achievements are highlighted below:

- 🌐 Through the affiliation of several members with research centers in US and Canada, an important link has been established between them and Egypt.
- 🌐 Since its birth, the AEAS has maintained strong ties with Friends of Egyptian Scholars Abroad (FOESA) in Cairo, which helped reunite them occasionally with the local scholars.

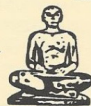
-  So far, AEAS has participated in ten of the biannual Cairo conference on “Egypt - The Year 2000,” held by FOESA delivering most of the papers there from overseas and has regularly published those conference proceedings.
-  Several libraries in Egypt were supplied with books, scientific periodicals and microfilms. Some members donated their own personal libraries.
-  Numerous members have participated in United Nation TOKTEN program, which contributed significantly in transforming technological knowledge through Egyptian expatriates of North America.
-  Through distinguished members, AEAS has placed Egypt under a program that will benefit twelve nations in family planning; has helped Egypt to benefit from several applications of the American satellite research and development; and has placed Egypt among six countries receiving technical information from the American Institute of World Resources.
-  Members gave several gifts (i.e. needed equipment/spare parts) to Egypt’s universities and centers; and others donated money to cultural and charitable organizations, pharmaceutical chemicals were donated to the Cairo National Research Center, a bilingual computer/printer were offered to FOESA to assist in preparing Cairo conference.
-  AEAS contributed to the reconstruction of Alexandria’s ancient library, and established a special fund to its project of “Dar EI-Adeeb EI-Misri” where great Egyptian writers can be displayed. This effort amount to over \$10,000 cash donation to the Bibliotheca Alexandrina.
-  The Association donated several computers to. Egypt’s Ministry of Education to establish three Centers where secondary school teachers can be trained to use them.
-  An anonymous AEAS member has donated \$10,000 to the Egyptian Minister of Scientific Research restricted to cancer treatment research in Egypt.
-  AEAS has conducted several conferences in North America dealing mainly with development in Egypt where the Egyptian Ambassadors in US and Canada served as guest speakers.
-  AEAS has invited the two top students among Egyptian Secondary School graduates to visit US major cities and historic sites, hosted by Egyptian-American families.
-  Several members participated in a study tour visiting main Egyptian cities

and meeting with some dignitaries there. Besides, AEAS has donated a few scholarships to Egyptian-American students to take summer courses in Egypt.

- 🌐 Some grants and research fellowships have been offered to college graduates in Egypt through AEAS members; and a pattern has been initiated to recognize and honor distinguished scholars among our members.
- 🌐 AEAS has maintained a periodic newsletter including member news, opinions, abstracts, budget updates, and other concerns.



Dr. Ibrahim Oais, giving the inaugural speech at the Association of Egyptian-American Scholars at the end of the terms as President at Biannual Conference held in Cairo in Dec. 1988, held under the auspices of President Mohamed Hosni Mubarak. Seated from left to right: Dr. Ahmed Fathi Sourour, Egyptian Minister of Education, Dr. Fouad Iskander, Egyptian Minister of Immigrants, Dr. Atef Sedky, Egyptian Prime Minister and Dr. Mahmoud Mahfouz, former Egyptian Minister and President of Friends of Egyptian Scholars Abroad (F.O.E.S.A.), December 27, 1988



REFLECTIONS ON THE BIRTH OF THE ASSOCIATION

Excerpts from an Article by Mohamed El-Wakil*

It is nearly impossible to pinpoint the time of the conception of an idea. No doubt the thought of an association of Egyptian scholars in America has evolved slowly, in various forms and, perhaps simultaneously, in many minds and places. To recognize all the individuals who thought of, discussed an campaign for the idea is impossible.

1966..Aided by a responsive group at Alexandria University who were initiating a new program and needed my services, the Fulbright people approached me for a stint in Egypt. I took the necessary steps only to see these efforts flounder on the objections of some dyed-in-the-wool Egyptian officials who would not dream of having a local product come back in a foreign guise. Since the first time always shocks some people, everybody concerned tried again the following year. This time it worked, and plans were finalized early in 1966 for service beginning in September.

1967..My family and I were accorded hospitality at its finest, the kind that only Egyptians are capable of. I responded by working hard with them. I stress "with" for one must avoid superior airs. We might know a few more up-to-date things, but we are certainly no better, for we all come from there. I made two trips in 1966-67. I returned to the States in April 1967, just before the '67 hostilities. This was fortunate, for I do not know how I would have reacted had I received instructions a few days before the war along with the rest of the American community to leave.

1968..I discussed the idea of an association during my stay. The beginning of an organizational effort, however, began after the hostilities. Ahmed Shouman of New Mexico and I met at a technical meeting early in 1968 and appointed ourselves a committee of two to spread the word. Among us, we had a list of some 20 scholars. Our first correspondence to them, in April 1968, read in part: "...there have been several exchanges of ideas...concerning some kind of association...that would help us here...and our country of origin...in technical, educational, financial, etc. matters. We all owe Egypt something..." We requested them to inform us of their colleagues, and we ended up with 50 names or so. Many were apprehensive (as some still are) to divulge themselves. We did not fret.

1969..The turning point in our efforts came in July 1969. On a return trip from India, I stopped in Egypt. Aided by a close friend, Osama El-Hkoly, then Cultural Attache in Moscow, I met many people in Government. Many were uncertain of the idea and were about evenly split, pro and con. The real change came when Osama told me that Vice President Sadat would like to see an Egyptian who has made it overseas, and wouldn't I be willing to meet with him? A few days later, the meeting took place at Mr. Sadat's office in the Socialist Union. Attending were Osama and M. Dakrouy, Sadat's consultant and former engineering acquaintance.

1970..A fourth and last informal circular by Shouman and

myself was sent in June 1970. Then came the first attempt at formalizing our grouping here. It took place at Chicago with ten scholars in attendance plus Cultural Attache Aboul-Magd from Washington as a liaison officer from the Egyptian Government. Many ideas were exchanged. The main outcome was a statement of the goals of the Association of Egyptian-American Scholars, which became part of our Chapter.

1971..In August 1971, Yahia Shawky and I visited Egypt for three weeks. Many of you received our report on that visit. It was a whirlwind one. The Egyptian side honored the Association by going out of their way to welcome us and make our stay fruitful. President Sadat charged Minister of Tourism Darwish, with all arrangements. We met Vice President Shafe, Prime Minister Fawzi, members of the Society of Friends of Egyptian Scholars Abroad, (Kharadly, its President, Abdel-Meguid, current Minister of Foreign Affairs, Heikal of Al-Ahram and many others). FOESA became our counterpart organization in Egypt that canvasses needs and administers activities in Egypt. Our activities were discussed everywhere and were enthusiastically received.

1972..A second meeting of the Chicago group, now expanded to 15 Charter members (published in the last newsletter) took place in mid-November 1971 in Detroit. At that meeting, the Association was transformed into a permanent structure, the Charter was drafted in its present form (and subsequently legally incorporated) and a Visiting Scholar Program (VSP) approved. The first list of registrants was approved and trans-mitted to Egypt. A group trip to Egypt was scheduled for August. The registration list numbered 62 in early May, 1972. This seemingly small number was not unexpected because of the caliber of people sought and because no pressure drive for registration was ever resorted to. It was always thought that people should serve because they sincerely want to.

The rest is known to many of us. Names were distributed to Ministries in Egypt. A meeting in New York attended by about 20 members with Abdel-Meguid and Kharadly took place to formalize things. Another one in Chicago approved the Charter. Some of us were invited to consult directly, via the TOKTEN Program, etc. So far, nine Biannual conferences dubbed "Egypt in the Year 2000" were held. A Science Education Fund was established by which we contributed much needed equipment and spare parts over the years. Our operation was so successful that I received calls from some embassies (I recall particularly that of Turkey) who wanted to emulate our efforts.

*From an article written by Dr. Mohamed El-Wakil, first president of AEAS, appearing on the newsletter of May-Aug 1991, pp. 2-3.



THREE AEAS MEMBERS HONORED FOR DISTINGUISHED SCHOLARSHIP

During the Banquet of AEAS Annual Conference and Membership Meeting in Toronto, held Saturday 16 October 1993, three Egyptian-American scholars were honored for their distinguished scholarship and service. Each was presented with an AEAS "Obelisk," by Dr. Badr-El-Din Ali. Their citations were read by Dr. Farouk Hamouda as follows:

MOHAMED T. EL-ASHRY

Dr. Mohamed T. EL-Ashry is the Chief Environmental Advisor to the President, Director of Environment at the World Bank, and Chairman of the Global Environment Facility (GEF). He received his B.S. degree with honors in 1959 from Cairo University and Ph.D. degree in geology in 1966 from the University of Illinois. He then returned to Egypt assuming the position of Assistant Professor at the Geology Department of Cairo University. In Cairo, he also worked half-time as Research Scientist with Pan-American-U.A.R. Oil Company where he conducted research on the source and dispersal of reservoir sands in the Gulf of Suez.

In 1969, Dr. El-Ashry moved to the United States and joined the faculty of Wilkes University, as Assistant Professor of Environmental Sciences, and rose to the rank of Professor of Environmental Sciences in 1975. During the six-year tenure at Wilkes University, he developed a curriculum leading to B.S. and B.A. degrees in Environmental Sciences and became the first Chairman of the Department of Environmental Sciences which he helped establish in 1972. It was also during that part of his career that his research increasingly focused on problems of environmental degradation and contamination, particularly those associated with coal mining and use.

Prior to joining the World Bank, Dr. El-Ashry served as Senior Vice President with the World Resources Institute (WRI), and as director of Environmental Quality with the Tennessee Valley Authority. He has held teaching and research positions at Cairo University, Pan American-U.A.R. Oil company, Illinois Geological Survey, Wilkes University and the Environmental Defense fund (Denver). He has also served as Senior Environmental Adviser to UNDP and as Special Adviser to the Director General of the 1992 U.N. Conference on Environment and Development (UNCED).

Dr. El-Ashry is a fellow of the Geological Society of America and the American Association for the Advancement of Science. He is listed in American Men and Women of Science and Men of Achievement. He has published or presented more than one hundred papers and several books including: *Air Photography and Coastal Problems; Problems of Environment and Development; Water and*

Arid Land of the United States; and Air Pollution's Toll on Forests and Crops. His recent research interests include: arid lands, water resources, energy policy, and environmental management.

In March 1983, he was honored as Air Conservationist of the Year by the Tennessee Conservation League for his role in TVA's air quality and acid rain efforts. In 1987 he was named one of America's Outstanding Environmental Achievers by Friends of the United Nations Environment Program (FUNEP). In 1990 he was elected to membership in the Third World Academy of Sciences. He has been honored by the Secretary General of UNCED for his contributions to the Earth Summit and received the 1992 Egyptian-American Outstanding Achievement Award.

IBRAHIM M. OWEISS

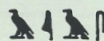
Dr. Oweiss is an educator and international economic advisor. He is one of the early members of the Association of Egyptian American Scholars. He served as the Chairman of its biannual Cairo conference, (*Egypt the Year 2000*), in 1982 and 1984. He was elected President of the Association for two terms, (1984-1988) after serving as its Vice President for four years.

Professor Oweiss joined the faculty of the Department of Economics at Georgetown University in 1967 after having served on the faculty of the University of Minnesota, Western Maryland College and the Johns Hopkins University. While on leave from Georgetown University, he was appointed The First Under-Secretary for Economic Affairs in August 1977 and held the position of the Chief of the Egyptian Economic Mission to the United States headquartered in New York with rank of Ambassador in 1977-79.

Dr. Oweiss earned his Bachelor of Commerce degree from Alexandria University majoring in economics and political science, while his Masters and Ph.D. degrees in economics were earned from University of Minnesota. Among positions held in Egypt prior to his departure to the United States was Director of the Department of Industrial Projects at the Ministry of Industry.

As an international economic advisor, Dr. Oweiss worked for several governments and multinational corporations, including the

(continued on page 2)



AEAS aims at improving Egyptian American Relations through the implementation of specific programs that contribute to the cultural and scientific development of EGYPT



HONORED SCHOLARS ... (continued from page 1)

governments of Egypt, Panama, Qatar and The Sultanate of Oman, as well as Occidental Oil Company, Deak Perera, Mitsui and Mawarid Corporations. He had also served on Dasi Inc. Board.

Dr. Oweiss held several volunteering positions such as President of Arab-American Club in Minnesota (1962-63) and that of The Egyptian-American Cultural Association in Washington, D.C. (1974-75). He was the Chairman of the Board of Faith & Hope USA (1975-77) as well as that of The Howard and Georgeanna Jones Institute for Reproductive Medicine at Eastern Virginia Medical School in Norfolk (1983-90) after which he was voted as an Honorary Chairperson for life. In 1975, he was a founding member of the Center for Contemporary Arab Studies at Georgetown University and serves as a life member of its Executive Committee. Professor Oweiss was also a board member of The Global Economic Action Institute and People-to-People International of which the President of the United States was the Honorary Chairman. For a brief time in 1983, Dr. Oweiss was an advisor to former President Jimmy Carter and one of President Bill Clinton's professors.

Dr. Oweiss authored over fifty scholarly publications among which are: *The Political Economy of Contemporary Egypt*, *Petrodollar Surpluses*, *Arab Civilization*, *The Israeli Economy: a War Economy*; and in a pioneering research on oil revenues he presented at an international conference at Arden House in New York in 1974, he coined the term "Petrodollars".

In addition to other national and international awards, President Mohamed Anwar Sadat awarded Dr. Oweiss in 1979 with Egypt's Order of Merit of the First Class. Dr. Oweiss is married to the former Ms. Celine Lesuisse. They have a daughter Yasmeen, a son Kareem and reside in Maryland.

AHMED H. ZEWAIL

Dr. Zewail has been appointed Linus Pauling Professor of Chemical Physics at California Institute of Technology since 1990, after serving eleven years there through the Professorial ranks. He received his B.S. (with honor), and his M.S. at Alexandria Univ., his Ph.D. at Univ. of Pennsylvania, where he served two years as pre-doctoral research fellow, followed by two years as IBM research fellow at Univ. of California (Berkeley). In recent years he was granted two honorary degrees: an M.A. from Oxford Univ.; and D.Sc. from American Univ. in Cairo.

Scientific interests/contributions of Prof. Zewail include: Ultrafast lasers, and electron diffraction; femtosecond studies of molecular structure and dynamics in the gas phase, in clusters, and at the interface to solutions. Past areas included: Non-linear laser spectroscopy, dephasing phenomena, and multiple-pulse phase-coherent methods; dynamics of high-energy vibrational local modes; the luminescent solar concentrator (LSC); energy transfer and diffusion in liquids; torsional dynamics of DNA and RNA; disorder and coherence in the solid state; and optical and magnetic properties of excitons. He authored 250 articles and edited 6 books; is current North American Editor of Chemical Physics Letters, and an editor of Internat'l Series of Monographs on Chemistry (Oxford). He chaired and served on many advisory boards, internat'l conferences, and is speaker and writer for public science education.

Dr. Zewail has received a variety of awards and honors including: Distinction with first-class honor; IBM fellow; Alfred P. Sloan fellow; outstanding younger chemist; Fellow of American

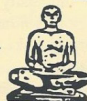
Physical Society; J.S. Guggenheim fellow; National Academy of Sciences; Third World Academy of Sciences; Egyptian-American Person of the Year; Sigma Xi Society; American Academy of Arts and Sciences; Camille and Henry Dreyfus Teacher-Scholar Award; Alex. von Humboldt Award; National Science Foundation Award; B. Whitney Medal of American Chemical Society; King Faisal International Prize; Harrison-Howe Award of American Chemical Society; Hoechst Prize; NASA Award; First AAM Achievement Award; Nobel laureate Signature Award of American Chemical Society; C. Zeiss International Award; Medal and Shield of Honor; E.K. Plyler Prize of the American Physical Society; Wolf Prize; Medal of Royal Netherlands Academy of Arts and Sciences.

Professor Zewail gave numerous honorary lectures including W. Albert Noyes, Jr. Memorial Lecture; Jean Day; Francis Blacet; Eyring; Harry Emmett Gunning; E.C. Watson; Max Rogers; Reilly; Flygare Memorial; Royal Institution Faraday Public Discourse; Oxford Hinshelwood; Jacob Bigeleisen; Richard Bernstein Memorial; Peter Leermakers; University of Birmingham Faculty; Baxter; Arthur Little; Zeiss Public; Mary Kapp; William Pyle Philips; E.U. Condon; Royal Society Science and Medicine; Basel Chemical Society; Berlin Femtochemistry Opening; Earle Plyler; Royal Netherlands Academy of Arts and Sciences; Opera Salon Address at Cairo National Cultural Centre, LASERION '93 Keynote Address; American Society for Photobiology Keynote Address; W. Heinen Hall; Merck, Sharp, and Dohme; and Russell Marker Lecture. Add to this 30 other plenary and keynote lectures, and 250 conference, symposium, and university invited lectures.

Dr. Zewail served as Honorary Visiting Professor at Univ. of Amsterdam, Univ. of Bordeaux, Ecole Normale Supérieure, Technical Univ. of Munich, University of California at Los Angeles, American University in Cairo (1988), Johann Wolfgang Goethe-Universität, Oxford Univ., Texas A&M Univ., and Univ. of Iowa. Professor Zewail is married to Dr. Dena Zewail and has two daughters and one son, Maha (Caltech undergraduate), Amani (Chandler High School), and Nabeel; residing in San Marino, California.

MEMBER NEWS

- **CALIFORNIA** . . Dr. Ahmed Zewail, Professor of Chemical Physics California Institute of Technology, has been granted Honorary Doctorate degree by the American University in Cairo last June.
- **KENTUCKY** . . Dr. Badr-El-Din Ali, Professor of Sociology at University of Louisville is serving as Visiting Scholar at the Human Rights Institute of DePaul University during 1993-94.
- **PENNSYLVANIA** . . Dr. Wagih Taylor, Dean of Graduate Studies at Wilkes University, presented a paper on "Rural to Urban Migration in Egypt: 1957-2000" in Aman, Jordan last June.
- **CALIFORNIA** . . Dr. Mohamed Eid Moustafa, Professor of Management, is taking part in promoting privatization and financial reform in Russia.
- **KENTUCKY** . . Dr. Adel S. Elmaghraby has been promoted to full professor of computer science at the University of Louisville, effective July 1993.



AEAS GOING STRONG IN ITS 20TH YEAR

It was back in 1964 when Dr. Mohamed El-Wakil, urged by a desire to pay back a debt to mother country, had the idea of an association of Egyptian scholars in America. He will always be remembered for his ten-year diligent and persistent endeavors to establish such an association until AEAS was incorporated in 1994 (see page 5). Through the years, the Association has contributed to the development of Egypt in various ways (see page 8). In celebrating its 20th year, AEAS newsletter identifies on this page a few names as a sample of the numerous outstanding Egyptian scholars in the United States and Canada.

EGYPTIAN WOMEN APPOINTED DEANS IN BOTH USA AND CANADA

- Dr. Wagih Taylor, Dean of Graduate Studies and Professor of Economics at Wilkes University has recently returned from Sydney, Australia where she attended the Annual Conference of the Congress of Political Economists (COPE). In her capacity as COPE President, Dr. Taylor presided over the conference proceedings, and she also presented a paper entitled: "The Economics of Egyptian Population Distribution." Dr. Taylor has previously served as both secretary and vice-president of AEAS and is now a member of its Advisory Council.
- Dr. Hoda Elmaraghy, Professor of Mechanical Engineering and Director of the Flexibility Manufacturing Center at McMaster University, has been recently appointed Dean of the Engineering Faculty at University of Windsor in Ontario. This is the first time ever that a woman holds deanship of an engineering college all over Canada. Her husband, Dr. Waguih Elmaraghy has also been appointed as Head of the Industrial Engineering Department at Windsor University.

AEAS PRESIDENTS 1974-1994*

Mohamed M. El-Wakil)	1974-1978
M. Cherif Bassiouni	1979-1980
Mohamed M. El-Wakil	1981-1984
Ibrahim M. Oweiss	1985-1988
Mohamed A. Selim	1989-1990
Badr-El-Din Ali	1990-1994

* Former presidents have been appointed since 1990 as members of AEAS Advisory Council

AEAS SALUTES CHARTER MEMBERS*

Abdel Meguid Ahmed, M.D. (Glendale, California)
M. Cherif Bassiouni, Ph.D. (Chicago, Illinois)
Mohamed Darwish, M.D. (Buffalo, New York)
Ahmed H. El-Abiad, Ph.D. (W. Lafayette, Indiana)
Mohamed El-Behairy, Ph.D. (Fort Erie, Ontario)
Salah Elmaghraby, Ph.D. (Raleigh, N.Carolina)
Mohamed El-Wakil, Ph.D. (Madison, Wisconsin)
Saad Hafez, M.D. (Detroit, Michigan)
Esmat Kamil, Ph.D. (New York, New York)
Tag Mansour, Ph.D. (Stanford, California)
Salah Megahed, M.D. (Buffalo, New York)
M. Hadi Samel, M.D. (Hollywood, California)
Ali Seireg, Ph.D. (Madison, Wisconsin)
Yehia Shawky, M.D. (Warren, Michigan)
Ahmed Shouman, Ph.D. (Las Cruces, New Mexico)

*According to Dr. M. El-Wakil, first president of AEAS, the above listed Egyptian-American Scholars are "Charter members of the Association who had the vision, the time, and the energy to start and see this noble movement to what it came to be."

SIX DISTINGUISHED SCHOLARS*

- M. Cherif Bassiouni
- Mohamed T. El-Ashry
- Farouk El-Baz
- Mohamed M. El-Wakil
- Ibrahim M. Oweiss
- Ahmed H. Zewail

*In recent years these Egyptian-American Scholars were honored for their distinguished scholarship and for their service to the AEAS. Each was presented by the Association President with AEAS Obelisk during its annual conference and membership meetings in Washington DC (1991), and in Toronto,



AN OPEN LETTER FROM H.E. DR. VENICE GOUDA
EGYPT'S STATE MINISTER OF SCIENTIFIC RESEARCH

The Ministry of Scientific Research in Egypt is now establishing Mubarak City for Scientific Research and Applied Technology located at the new town of Borg El-Arah in Alexandria. Originally, it was planned and hoped that the city includes at its first stage eight special research institutes and centers that would help in solving the problems facing the Egyptian developmental plan and attempt to narrow the technological gap between Egypt and advanced nations. However, visibility studies have proved that implementing the original plan would need hundred millions of pounds which could not be provided through available governmental resources.

Due to the difficult economic circumstances that encounter Egypt today, and until we are able to establish and prepare new institutes that match their counterpart at the world level, it was decided that the present stage be limited to two institutes only, namely: 1. Institute of Genetic Engineering and Biotechnology, and 2. Institute of Informatics, to be followed in a future stage by an institute for advanced technology and new materials.

Preliminary studies conducted to set up the research cadres and special equipment in the Institute of Genetic Engineering and Biotechnology have indicated that a

substantial financial support is needed to supplement the governmental budget assigned to establish this Institute. In the respect, it was possible to receive a number of study/training scholarships from Italy and Germany for the research assistants appointed at the Institute.

This open letter is addressed to all Egyptian scholars overseas hoping for positive responses that would contribute to a well staffed and equipped Institute of Genetic Engineering and Biotechnology in Egypt. Support is welcomed in the form of study/training scholarships for the Institute's staff, gifts of equipment and/or chemicals, volunteer participation in research activities and consultation, and/or otherwise. It is worth noting here that similar experiences have gained great success in many countries including, for example, Weisman Institute in Israel.

Your home country will always be delighted to hear from you. Whenever you are in Egypt, your visit to the Ministry of Scientific Research will be most welcomed. In case you wish to contribute to, or inquire about, the above mentioned Institute, you may directly contact: Dr. Venice Kamel Gouda, State Minister of Scientific Research, 101 Kasr El-Eini Street, Cairo, Egypt (Phone: 202-354-6039, Fax: 202-355-8609).

CONCERNED MEMBERS ARE BEING HONORED FOR THEIR CONTINUED SUPPORT TO AEAS

In celebrating its 20th anniversary, the AEAS is acknowledging its members who have continued their support through the years. The honor list includes 22 members who initiated the Association in 1974 along with 4 in 1975, 15 members who were supportive since 1980, and 20 since 1985. AEAS salutes these members along with many other recent regular members, for their concern and continued support.

LAST 20 YEARS

Mohamed Abou-El-Seoud (V74)
Eassa-Helmy Eassa (V74)
Hussein K. Amin-Samel (V75)
Samir E. Bishara (M74)
Mohamed T. El-Ashry (M74)
A. Moneim El-Meligi (V74)
A. Sami El-Naggar (V74)
Mohamed M. El-Wakil (V74)
Youssef Milad El-Zik (M74)
Samir D. Gergis (M74)
Mohamed M. Ghoneim (V74)
Nessim Hanna (M75)
Ahmed Hassan (V74)
Malek T. Kaddah (V74)
Samir Kamal (V74)
Mohamed Khawassah (V74)
Mohamed E. Moustafa (V74)
Ibrahim M. Oweiss (V74)
Hemwat H. Safwat (M74)
Adel F. Sarofim (V74)
Hassan A. Sultan (M74)

Ramess B. Toma (M75)
E. Ahmed Zein-Eldin (M74)
Abdel-Khalik Zikry (M74-58)

LAST 15 YEARS

Ferial Abhassy-Tewfik (M77)
Mamdouh M. Abdallah (M76)
Ragas S. Eldin (M80)
Wahuib Elmaraghy (M79)
Adel A. Elsayed (M80)
Farouk A. Hamouda (M78)
Azmi D. Mikhail (M79)
Ragy G. Mitias (M79)
Adel G. Nafrawi (M79)
Salama Abdel-Aziz (M79)
Nabil A. Shueb (M77)
Younan A. Sidky (M76)
Mahmoud S. Taman (M76)
Wagiha A. Taylor (M77)
Hamed H. Tewfik (M76)
Fathi S. Youssef (M75)

LAST 10 YEARS

Badr-El-Din Ali (M84)
Ahmed A. Amer (M84)
Farouk El-Baz (M82)
Ibrahim Elbarbary (M85)
Abdel-Fattah Elbitash (M82)
Adel S. Elmaghraby (M85)
Nabil Elgehalawi (M82)
Mahmoud B. Elsayess (M82)
Shawky Hammam (M82)
Ibrahim Khalifa (M88)
Ali Marei (M86)
El-Sayed A. Megahed (M86)
Adel Mohamed (M82)
Mohamed A. Osman (M84)
Mohamed E. Sawan (M84)
Daniel N. Schnuda (M84)
Cherif Sedky (M85)
Mohamed Selim (M82)
Gene Taylor (S84)
Mostafa M. Zayed (M82)

Association of Egyptian-American Scholars

NEWSLETTER



Dr. Badr-El-Din Ali, President

VOLUME 12

MAY-AUG 2002

UNIVERSITY OF LOUISVILLE
LOUISVILLE, KY. 40292 U.S.A.



Dr. Waguib Elmaraghy
chaired first session



Dr. Mohamed Shokr
co-chaired program committee



Dr. Mona Farid
Ain Shams University



George Saad
"Media Coverage"



Dr. Badr-El-Din Ali
"Societal Behavior"



Dr. Mohamed El-Wakil chairing opening session
with Amb. Said Inam (L) and Dr. Badr-El-Din Ali



Dr. Ahmed B. Khairy
hosted Friday reception



Dr. & Mrs. John Zachariassen
registering for the meeting



Listening to guest speaker (clockwise): Mrs. Shokr, Dr. Eglal Helmy,
Dr/Mrs Mohamed El-Wakil, Dr. Mohammed Shokr, and Dr. Ahmed Elhakeem



Session participants listening to paper presentations



Dr. Mohamed Attalla
busy with registration

AEAS HOLDS SPECIAL CONFERENCE IN OTTAWA, CANADA

EXPANDED THEME: EGYPTIAN SCHOLARS IN NORTH AMERICA: Cultural Adaptation and Contribution to Mother Country

The Association of Egyptian-American Scholars in the U.S. and Canada will hold a special meeting in Ottawa, Canada during 24-26 June 1994. The conference theme is "Egyptian Scholars in North American: Cultural Adaptation and Contribution to Mother Country". The program is coordinated by AEAS President Dr. Badr-El-Din Ali working with four committees: Organizational Committee chaired by Dr. Abdalla Naem; Public Relations Committee chaired by Eng. Mohamed Osman; Program Committee chaired by Dr. Ali Sherief, and Papers Committee chaired by Dr. Rafik Goubbran. AEAS Treasurer Dr. Azmi Mikhail serves ex-officio on each committee.

The program includes an opening session addressed by Dr. Mahmoud Farghal, Egypt's Ambassador in Canada; and four working sessions dealing with: I. Family Adjustment Problems faced by Egyptian-American youth; II. Economic and educational issues: Challenges and achievements; III. Knowledge Exchange with Egyptian Institutions; and IV. Technological Transfers and Development in Egypt. The banquet speaker will be Dr. Maher Mahran, Egyptian Minister of Population and Family.

The symposium will be held at Citadel Inn in downtown Ottawa during an ideal weekend for visiting Ontario's capital, blending its fresh weather with its beautiful flowers. Ottawa is known for its "open-space therapy" containing parks, play grounds, and pools, surrounded by a 24-mile green belt. This cosmopolitan city offers a variety of attractions including the National Arts Center and National Museum of Science and Technology. The 5-star hotel offers a swimming pool, squash courts, gymnasium, sauna, and several other recreational facilities.

AEAS members and affiliates are invited to participate in the symposium and serve as speakers or discussants as related to the above mentioned topics. Costs of the symposium includes US\$20 (\$25 Can.) as registration fees, and a special accommodation rate of about US\$53 (single/double occupancy) per night. A student may register for \$10 Can., and banquet tickets are US\$25 (Can. equivalent) each. For more details, contact Dr. Badr-El-Din Ali (502-241-7831, 502-852-6836; Fax: 502-852-0099), or Dr. Abdalla Naem (613-591-5978, 613-763-5904, Fax: 613-599-8262)

TENTATIVE SCHEDULE

<u>Friday, 24 June</u>		<u>Saturday, 25 June</u>		<u>Sunday, 26 June</u>	
Pre-Registration	7-8 pm	Register-Orientation	8-9 am	Session III	9-10:45 am
Canadian Hospitality	8-10 pm	Opening Session	9-10 am	Session IV	11-12:30 pm
		Break/Refreshments	10:-10:30 pm		
		Session I	10:30-12:30 pm	Free Time/Sightseeing	2-4 pm
		Ambassador's Reception	1-3 pm		
		Session II	4-6 pm		
		AEAS Banquet (US\$25)	7-10 pm		

DETACH

DETACH

REGISTRATION FORM

1994 AEAS CONFERENCE IN OTTAWA, CANADA*

Name(s): _____ (add those in your company)

Address: _____ Phone: _____

Registration Fees:

US \$20 (\$25 Can.) each _____
Student (\$10 Can.) each _____

AEAS Banquet:

US \$25 (Can. equiv.) each _____

TOTAL (Enclosed) _____

Please make checks payable to "AEAS-Ottawa Conference 1994," and mail with the registration form to Dr. Badr-El-Din Ali, Sociology Department, University of Louisville, Louisville, KY 40292 (Tel: 502-241-7831, 852-6836, Fax: 852-0099).

*In planning flights, call Sunship International for a special rate (800-344-9428); for hotel reservations (mention Egyptian-American conference) call Citadel Inn Ottawa, Kanata, Ontario K2L 3K4, (800-567-3600, Fax: 613-237-2351).



For Your Information



Association of Egyptian-American Scholars



President	Dr. Ibrahim M. Oweiss, 4017 Glenridge St.	Kensington, MD 20895	(301) 933-7667
Vice President	Dr. M. Cherif Bassiouni, 25 E. Jackson Blvd.	Chicago, IL 60604	(312) 341-8332
Vice President	Dr. M. Eid Moustafa, 9782 Avenida Monterey	Cypress, CA 90630	(213) 498-5306
Secretary	Dr. Wagha A. Taylor, 560 Westmoreland Ave.	Kingston, PA 18704	(717) 389-4149
Treasurer	Dr. Albert T. Awad, Ohio Northern University	Ada, OH 45810	(419) 772-2294
Ex Officio	Dr. M. M. El-Wakil, 16 Nebatat St. Garden City	Cairo, Egypt	(011-20-2) 23505

FOUNDER

Dr. M. M. El-Wakil

FORMER PRESIDENTS

Dr. M. M. El-Wakil

Jan 1975-Dec 1978

Dr. M. Cherif Bassiouni

Jan 1979-Dec 1980

Dr. M. M. El-Wakil

Jan 1981-Dec 1984

November 19, 1986

Dear Egyptian/American Scholar:

Enclosed is a listing of the individuals who will be presenting papers at the December Conference in Cairo.

Those individuals whose names are checked have also sent me copies of their papers.

If your name is not checked, will you please send me a copy of your complete paper by Monday, December 1?

Since it is my intention to have the papers printed for distribution prior to the opening of the Conference, it is imperative that I receive them as soon as possible.

Thank you very much for your cooperation in this matter and for your interest and willingness to present a paper at the Conference. I look forward to seeing you in Cairo on December 27.

Sincerely yours,

Dr. M. A. Selim
Conference Chairman

Department of Economics
College of St. Thomas
St. Paul, MN. 55105

(612) 647-5304

A private, non-profit, educational, cultural, non-political, non-sectarian, association of scholars of Egyptian origin citizens or permanent residents of the USA and Canada. Its purposes are to improve Egyptian-American cultural and scientific relations through the development and implementation of specific programs of interest and value to the cultural and scientific development of Egypt.



TRANSFER OF KNOWLEDGE THROUGH EXPATRIATE NATIONALS (TOKTEN)

UNITED NATIONS DEVELOPMENT PROGRAMME
ONE UN PLAZA, NEW YORK 10017

Tel: (212) 754-2914/02
Cable: UNDEVPRO, New York

INT/79/017

7 November, 1986

Dear Dr. Awad,

Subject: Transfer of Knowledge Through Expatriate Nationals

I understand that you have already completed a TOKTEN consultancy assignment in Egypt. From all accounts, the programme there is progressing well in terms of the quality of work rendered by the TOKTEN consultants although the number of consultancies considered rather low. At this point, we would like to be able to mobilize additional candidates to enable the Government of Egypt to select such experts as they may need in the future.

For this purpose we need your help. We have therefore enclosed a recent article describing the scheme. I would appreciate your bringing it to the attention of other Egyptian origin experts who may wish to participate. You may also wish to send a copy of the article to a newspaper in your area who may be able to use it.

I would appreciate your reaction and advice on how we can further propagate this concept among Egyptian origin professionals. We would particularly like to send women TOKTEN consultants as very few women have participated in this scheme in the past.

Your comments and advice on the contents of this letter would be greatly appreciated.

Yours sincerely,

Rustam Lalkaka
Co-ordinator, TOKTEN

Dr. Albert Tewfik Awad
2407 County Road 60
Ada, Ohio 45810

Boston University

Center for Remote Sensing
725 Commonwealth Avenue
Boston, Massachusetts 02215-1401



Dr. Farouk El-Baz, Director

Telephone: 617/353-5081

Facsimile: 617/353-2053

Telex: 286995 BOS UNIV BSN

August 22, 1989

Dear Colleague:

Congratulations on the fine start towards the endowment of DAR EL- ADEEB EL-MISRI Library. As an interim report, to date members of the Association of Egyptian-American Scholars have contributed \$3,920. This sum has been placed in a special short-term Certificate of Deposit with the Bank of Boston to accumulate interest. I also have pledges from friends in Egypt of \$1,100, which brings the total to \$5,020, as per the attached list of contributions.

When we started this worthy drive, our goal was to collect \$20,000. In Egyptian pounds, this would be a substantial amount that would assure initiation of a good library of which we can all be very proud. I have no doubt that we will be able to reach this goal. I now appeal to those who have not yet contributed, and those who can make additional tax-deductible contributions, to give generously so that we can reach the goal soon and transfer the funds to Egypt.

In the meantime, there is a chance that the library could be housed in one of the renovated buildings in Old Cairo. I have written a preliminary proposal to the Aga Khan Trust for Culture regarding this, a copy of which is enclosed for your perusal. From this you will realize that the proposed library has the potential of being a tangible and everlasting monument to our concern for cultural development in Egypt. Please make as generous a contribution as you can to this worthwhile cause.

With best wishes for continued success.

Sincerely yours,

Farouk El-Baz
Director
Center for Remote Sensing



**وزير الدولة
لشئون الهجرة والمصريين في الخارج**

السيد الدكتور / ابراهيم عويس
نائب رئيس رابطة العلميين المصريين
بالولايات المتحدة الامريكية

تحية طيبة وبعد :

تلقيت ببالغ الشكر والتقدير كتابكم المتضمن مجموعة الدراسات العلمية التي تجرى مناقشتها حاليا في المؤتمر الخامس للعلميين المنعقد بالقاهرة " حول مصر عام ٢٠٠٠ " في خلال العدة من ٢٦-٣٠ ديسمبر .
اننى ارحب بكم فى بلدكم واشكر لكم مساندتكم وتحمسكم لهذا العمل الوطنى ، واحيى واشكر كل عضو شارك فى هذا العمل الكبير .
اننا فى مصر نشيد بالجهود العلمية التى تبذلها مؤسساتكم لتكريس جهود نخبة من علمائنا الموجودين بالخارج للمساهمة فى التنمية العلمية لمصرنا الحبيبة .
اننى اتمنى لمؤتمركم كل النجاح فى التوصل الى تفهم لبعض مشاكلنا ، هذه المشاكل التى تعوق حركة الانتاج والتنمية .
ان مصر فى حاجة الى الاعتماد على التكنولوجيا الحديثة لمواجهة التحديات الكثيرة كالمشاكل الاقتصادية ومواجهة التزايد الكبير فى عدد سكانها بالحلول العلمية والعملية المثقة مع قيمنا وغيرها من المسائل .
واننى على ثقة كاملة ان مصر بمواهبها الحريق ومواردها البشرية والطبيعية الكبيرة ، وايضا بالجهود المخلصة لايثائها سواء فى الداخل او الخارج لاقادرة على تخطى هذه العقبات رغم عظم حجمها .

وفتنا اليه جميعا لرفعة شأننا .
ومرة اخرى مرحبا بكم فى القاهرة ، مع عيق شكري
وتقديرى واحيب تعنايتى بالعام الجديد ،،،،

وزير الدولة
لشئون الهجرة والمصريين فى الخارج

تحريرا فى ١٩٨٢/١٢/٢٨

(البرت برسوم سلامه)







مقدمه



الدكتور
ابراهيم عويس

□ □ تبدأ اليوم جلسات مؤتمر مصر

عام ٢٠٠٠ السابع الذى يعقد كل عامين مرة بالشتراك علماء مصر فى الداخل والخارج لبحث امكانيات وضع خبرة مصر فى العلم المصرين فى خدمة قضايا مصر، وهذا المؤتمر يبحث هذه المرة التنمية الاقتصادية، وكيف يتعاون ابناء مصر مع حكومة ونظهم، وبجهودهم الذاتية، وبمساعدة الدول الصديقة والمنظمات الدولية التى لهم فيها كلمة وراى. وحضر من الولايات المتحدة وفد علماء رابطة العلميين المصريين فى الولايات المتحدة التى يرأسها الدكتور ابراهيم عويس، ومن بريطانيا وفد يرأسه الدكتوران زكريا الصفورى وصالح الشورباتى، ومن سويسرا وفد يرأسه الدكتور عبدالرحمن منصور، ويذكر علماء مصر فى الداخل والخارج اول رئيس شرف لجمعياتهم ومؤتمراتهم المرحوم الدكتور محمود فوزى نائب رئيس الجمهورية ورئيس الوزراء الأسبق، صاحب الفضل الاول فى بداية هذه المؤتمرات واستمرارها.

على توفير احتياجاتها .. والتوسع في التصدير

مبارك لمؤتمر
مصر ٢٠٠٠

کتاب - حمدی حنضل :

أكد الرئيس حسنى مبارك ان مصر قادرة بالعمل الدائب والانتاج الذى يجمع بين الوفرة والجودة على توفير كل ما تحتاجه لاستهلاكها المحلي من نتائج الزراعة والصناعة والعلم الوقت نفسه تتطلى على طريق التوسع فى التصدير لمختلف اسواق العالم

وأكد الرئيس في كلمته ان مصر
تمتلك كل الاسباب التي تجعلها امة

[illegible]

وقال ان هذه الامور الثلاثة هي التي تشكلت في ذهنه منذ ان كان طالباً في جامعة القاهرة، وكان المؤتمر قد بدأ جلساته أمس بالمركز المصري الدولي للزراعة بكلمة رئيس الجمهورية - عبد الحليم نasser - اعطياها الدكتور محمود محفوظ رئيس جمعية اصداق العلماء المصريين بالباراف كمال بقال في هدف تنمية التعاون الفكري بين علماء مصر في ١٩٧٤ وحتى ان تكون ساحة فريدة اجتماعية يشغلها باحثو العلم في مصر.

مؤتمر مصر عام ٢٠٠٠ السابع
تحت رعاية السيد رئيس الجمهورية

د. عاطف صدقي رئيس الوزراء يلقي كلمة الرئيس حسني مبارك في مؤتمر مصر عام ٢٠٠٠

[illegible]

ويناقد المؤتمر اثنين وأربعين
حدا لمهام مصر تتناول ثمانية
موضوعات رئيسية هي ملامح
الاقتصاد المصري مشكلات الإدارة
البنائية الأساسية دور المرأة
التنمية الاقتصادية مستقبل الطاقة -
تغيير الاجتماعي - التنمية
الزراعية والصناعية - العلاقات
الدولية والسياسية التكنولوجية

AEAS Presidents

Dr. Mohamed El-Wakil	1975-1978
Dr. M. Cherif Bassiouni	1979-1980
Dr. Mohamed El-Wakil	1981-1984
Dr. Ibrahim Oweiss	1985-1988
Dr. Mohamed Selim	1989-1990
Dr. Badr El-Din-Ali	1991-1994
Dr. Wagih Taylor	1995-1998
Dr. Badr El-Din-Ali	1999-2002
Dr. Ayman El Mohandes	2003-2006
Dr. Amer El Ahraf	2007-2008
Dr. Mohamed Attalla	2009-Present

Dr. Mohamed El-Wakil

Founder & President:

1974-78, 1981-84



Mohamed El-Wakil, 91, a resident of Madison for nearly sixty years, died June 10 in Walnut Creek, California, where he had moved in 2005. He was born in Alexandria, Egypt in 1921.

He graduated from the University of Cairo in 1943 and was awarded a scholarship in mechanical engineering to study in the U.S. but was not allowed to travel until after WWII. He was sent to the University of Wisconsin-Madison where he earned a Ph.D. in 1949. In 1952, he joined the faculty of UW-Madison. He continued to teach in the Departments of Mechanical and Nuclear Engineering until he was 80 with the exception of 4 ½ years in the 1980's when he served as Chairman of Engineering and Computer Science at American University in Cairo. El-Wakil was internationally known for his four textbooks, many graduate students, and invited presentations in numerous countries. He taught workshops in India, Libya, Kuwait, Lebanon, the Philippines, Indonesia, Tunisia, and the United Arab Emirates, as well as Egypt. He loved teaching and received several teaching awards.

In 1974, he founded the Association of Egyptian-American Scholars to encourage Egyptians working in all academic fields in the U.S. to share expertise with colleagues in Egypt. He was a member of Rotary West in Madison. He is survived by his wife of 32 years, Betty, two children, Dr. Fred Wakil, Los Angeles, Dr. Leila El-Wakil, Piedmont, and two granddaughters, Sonja (Steven Magnuson), and Sophia.

39 Years of Service to the

Departments of Mechanical & Nuclear Engineering University of Wisconsin-Madison

Born in Alexandria, Egypt, March 9, 1921

1943 B.S. Mechanical Engineering Cairo University
1947 M.S. Mechanical Engineering University of Wisconsin-Madison
1949 Ph.D. Mechanical Engineering University of Wisconsin-Madison

Career Highlights

1943-46 Resident Engineer, Fayoum Waterworks, Egypt
1949-52 Lecturer, Alexandria University
1952-54 Research Associate, University of Wisconsin-Madison
1954-85 Assistant, Associate, Professor, University of Wisconsin-Madison
1985-89 Chairman, Engineering & Computer Science, American University in Cairo
1995- Professor Emeritus (Active), University of Wisconsin-Madison

Honors & Awards

1952 SAE Meritorious Paper Award
1959 ASEE Western Electric Award for Excellence in Instruction
1970 The Benjamin Smith Reynolds Award, UW
1970 Your Madisonian, The Wisconsin State Journal
1971 ASEE Outstanding Teacher Award (First Recipient)
1971 Who's Who in America
1971 American Men and Women of Science
1978 Who's Who in the Arab World
1978 Who's Who in the Midwest
1979 ANS Arthur Holly Compton Award
1981 Fellow, American Nuclear Society
1986-89 Schlumberger Professor of Engineering
Sigma Xi
Pi Tau Sigma
Tau Beta Pi

Textbooks

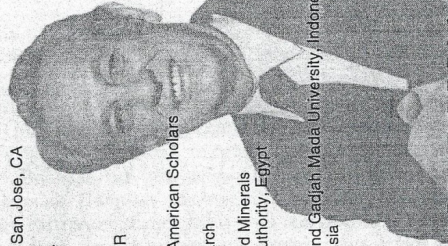
1962 Nuclear Power Engineering, McGraw-Hill
1971 Nuclear Heat Transport, ANS (Japanese Translation, 1972)
1979 Nuclear Energy Conversion, ANS (Japanese Translation, 1979)
1984 Powerplant Technology, McGraw-Hill (Chinese Translation Pending)

National Consulting, Workshops

A.O. Smith, Milwaukee, WI
Falk Corporation, Milwaukee, WI
Preway, Inc., Wisconsin Rapids, WI
International Harvester Co.
Standard Oil Co. of Indiana
Bechtel Corporation, San Francisco, CA
General Electric Atomic Power Equipment, San Jose, CA

International Consulting, Workshops

1967 Fulbright Scholar, Egypt, 1967
1969 AID, India
1969 Institute of Energetics, Minsk, USSR
1971 Tripoli University, Libya
1974 Lubiana University, Yugoslavia
1974 Founder, Association of Egyptian-American Scholars
1975 Hiroshima University, Japan
1976 Kuwait Institute of Scientific Research
1977 Cairo University, Egypt
1978 Dhahran Institute for Petroleum and Minerals
1981 U.N.D.P., Nuclear Power Plants Authority, Egypt
1987 University of the Philippines
1988 ASME Power Consultant, China
1992 Bandung Institute of Technology and Gadjah Mada University, Indonesia
1993 International Energy Institute, Tunisia
1994 U.A.E. University



Dr. M Cherif Bassiouni

President: 1979-80



M. Cherif Bassiouni is a Distinguished Research Professor of Law at DePaul University, where he has taught since 1964, and the President of the International Human Rights Law Institute (since 1990). He is also the President of the International Institute of Higher Studies in Criminal Sciences, Siracusa, Italy (since 1988) and the Honorary President of the International Association of Penal Law, (President 1989-2004) and holds the position of non-resident Professor of Criminal Law at The University of Cairo (since 1996). He was a Guest Scholar at The Woodrow Wilson International Center for Scholars in Washington, D.C.

in 1972, Visiting Professor of Law, New York University Law School in 1971 and Fulbright-Hays Professor of International Criminal Law, The University of Freiburg, Germany in 1970, and is a frequent lecturer at universities in the U.S. and abroad.

His legal education was in Egypt, France, Switzerland and the United States where he received the following degrees: LL.B. University of Cairo; J.D. Indiana University; LL.M. John Marshall Law School; S.J.D. George Washington University. In addition, he received several honorary degrees from: National University of Ireland, Galway, Ireland (LL.D.) (2001); Niagara University, USA (LL.D.) (1997); Docteur d'Etat en Droit honoris causa, University of Pau, France (1986); Dottore in Giurisprudenza honoris causa, University of Torino, Italy (1981).







He is the author of 27 and editor of 48 books on International Criminal Law, Comparative Criminal Law, Human Rights, and U.S. Criminal Law; and the author of 240 articles published in law journals and books in the U.S. and other countries. These publications have been written in Arabic, English, French, Italian and Spanish. Some of them have been cited by the International Court of Justice; the International Criminal Tribunal for the Former Yugoslavia (ICTY); the International Criminal Tribunal for Rwanda (ICTR); the United States Supreme Court; the United States

Circuit and Federal District Courts and various State Supreme Courts. Several of his works have been translated into: Arabic, Chinese, Farsi, French, German, Hungarian, Italian, Portuguese and Spanish.

Between 1975-2005, he served in the following United Nations positions: Independent Expert on Human Rights in Afghanistan, Commission (2004-05); Independent Expert on The Rights to Restitution, Compensation and Rehabilitation for Victims of Grave Violations of Human Rights and Fundamental Freedoms (1998-2000); Chairman, Drafting Committee, United Nations Diplomatic Conference on the Establishment of an International Criminal Court (1998); Vice-Chairman, General Assembly's Preparatory Committee on the Establishment of an International Criminal Court (1996-98); Vice- Chairman, General Assembly's Ad Hoc Committee on the Establishment of an International Criminal Court (1995); Chairman of the United Nations Commission of Experts Established Pursuant to Security Council 780 (1992) to Investigate Violations of International Humanitarian Law in the Former Yugoslavia (1993-94), and the Commission's Special Rapporteur on Gathering and Analysis of the Facts (1992-1993); Consultant to the Sixth and Seventh United Nations Congress on Crime Prevention (1980 and 1985); Consultant to the Committee on Southern African, Commission on Human Rights (1980-81); Co-chairman of the Independent Committee of Experts on drafting the Convention on the Prevention and Suppression of Torture (1978); Honorary Vice- President, Fifth United Nations Congress on Crime Prevention (1975).

He also served, between 1973-1980, as a consultant to the U.S. Departments of State and Justice on projects relating to international traffic in drugs (1973) and international control of terrorism (1975 and 1978-79) and as a consultant to the Department of State on the defense of the U.S. hostages in Iran (1979-80).

Among the distinctions and awards he received are:

-  Nomination to the Nobel Peace Prize (1999)
-  Special Award of the Council of Europe (1990)
-  Defender of Democracy Award, Parliamentarians for Global Action (1998)
-  The Adlai Stevenson Award of the United Nations Association (1993)
-  The Saint Vincent DePaul Humanitarian Award (DePaul University 2000)
-  The Hague Prize for International Law (2007).

Dr. Ibrahim M. Oweiss

President: 1985-86, 1987-88



Dr. Ibrahim M. Oweiss is a Professor Emeritus, Georgetown University. He is an educator and an international economic advisor. He joined the faculty of the Department of Economics at Georgetown University in 1967 after having served on the faculty of the University of Minnesota and Western Maryland College. In 1997-98, Dr. Oweiss was a visiting professor of economics at

Harvard University. He also taught at Johns Hopkins University. While on leave from Georgetown University, he was appointed in the Egyptian Cabinet as First Under-Secretary for Economic Affairs in August 1977 and with rank of Ambassador, he held the position of the Chief of the Egyptian Economic mission to the United States headquartered in New York.

Dr. Oweiss earned his Bachelor of Commerce degree from Alexandria University in Egypt majoring in economics and political science, while his Masters and Ph.D. degrees in economics were earned from the University of Minnesota in the USA. Among the positions he held prior to his departure to the US was the Director of the Department of Industrial Projects in Cairo.

As an international economic advisor, he worked for several governments including Egypt, Kuwait, Oman, Qatar, Panama, Saudi Arabia and Taiwan and multinational corporations in the USA and abroad including Occidental Oil Company, Mobil Oil Company, United Technologies and Mawarid Holding Company.

In addition, Dr. Oweiss is the Honorary Chairman of the Council on Egyptian-American Relations which he founded in 1999. He held several volunteering positions among which the Chairman of the Board of Faith & Hope USA (1975-77) as well as that of the Foundation of the Jones Institute at Eastern Virginia Medical School in Norfolk (1983-90) after which he was voted as an Honorary Chairman for

life. He was elected for two terms as the President of the Association of Egyptian-American Scholars (1984-88). Dr. Oweiss was one of the founding members of Georgetown University Center for Contemporary Arab Studies as well as the College of Commerce and Economics at Sultan Qaboos University in Oman. For a brief time, Dr. Oweiss was an advisor to former President Jimmy Carter after having left office in 1983 and was one of the Professors of President Bill Clinton.

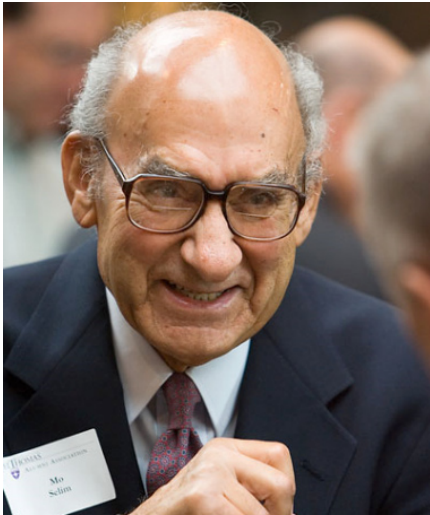
Dr. Oweiss authored over sixty scholarly publications among which were: Petrodollar Surpluses, Arab Civilization, The Political Economy of Contemporary Egypt, and in a pioneering work on oil revenues, he coined the terms «Petrodollars» and «Hostage Capital». The «Oweiss Demand Curve» was first presented at Oxford University. He expanded the well-known Newton Law to social sciences. The Newton-Oweiss states that “In social sciences every action has a reaction not necessarily opposite in direction and not necessarily equal in force”

In addition to other national and international honors, President Sadat awarded Dr. Oweiss with Egypt's Order of Merit, First Class. Her Majesty Queen Elizabeth sanctioned his admission to the order of St. John. In addition, he holds the Grand Cordon of the Order of Mohammed Ali Pasha and the Knight of the Order of the Queen of Sheba.

Dr. Oweiss is married to the former Miss Céline Lesuisse. They have one daughter Yasmeen and one son Kareem.

Dr. Mohamed Selim

President: 1989-90



Dr. Mohamed Selim is a Professor of Economics in International Trade Finance and Economic Development. He graduated from the Faculty of Commerce in Cairo University in 1949. He worked in his Family Marine Business in Alexandria for four years. In 1953 he traveled to the USA and worked on his Masters and Ph.D. degrees in Minneapolis in the University of Minnesota. Dr. Selim obtained his Master's degree in 1955 and Ph.D. in 1959.

In 1959, Dr. Selim accepted a position as an Assistant Professor in the University of St. Thomas in Minnesota. In 1965, he became the Chair of the Department of Economics. The department at this time included three Ph.Ds. At the end of his term as a Department Chair in 1965, the department had grown to 19 Ph.Ds. During this period Dr. Selim established two centers: The Center for Economic Education, which worked with teachers in elementary and high schools to provide training on methods of teaching economics at the elementary and high school levels.

Also Dr. Selim has established the Center for Senior Citizens Education. This center has focused on areas such as Culture, Education, Social Security, Retirement and Legal Advice. The center name was changed after Dr. Selim's retirement to be Selim Center for Learning in Later Years. These centers were fully funded from the Business community.

Dr. Selim retired in 2004. He spends about two months annually in Egypt while is living in Minnesota.

Dr. Badr-El-Din-Ali

President: 1991-94, 1999-2001



Dr. Badr-El-Din Ali was a professor of Sociology at the University of Louisville and Executive Director of the International Prisoners Aid Association.

Badr-El-Din has been published in many scholarly journals discussing topics like: Islamic Law, Methodological Problems in International Criminal Justice Research and Female Criminality in Modern Egypt. He passed away in 2008.

Dr. Wagiha Taylor

President: 1995-96, 1997-98



Dr. Wagiha Taylor is Professor of International Business and Economics and Former Dean of Graduate Studies at Wilkes University. She has M.A./Ph.D. in Economics from Brown University/Clark University and teaches both graduate and undergraduate business and economics courses. Taylor has lectured to various professional and civic groups in the US, Egypt, and abroad. Taylor is an

active consultant for United Nations. She has discussed educational programs with officials of the Sadat Academy of Management Sciences and presented a written report entitled, “A Final Report Resulting from a UNDP – Sponsored Consultancy Assignment with the Sadat Academy of Management Sciences.”

Dr. Taylor is an active observant at the United Nations Conference on Population and Development as well as The United Nations Congress on the Prevention of Crime and the Treatment of Offenders. Taylor has been an active contributor to almost all AEAS conferences held in Cairo, Egypt and various cities and states in The United States.

Taylor has held the title of: President of the Congress of Political Economists (COPE) International; President of the Pennsylvania Economic Association; President of the Wilkes University Faculty Association; President of the Association of Egyptian American Scholars (AEAS) in the U.S. and Canada; Chair of the Board of Directors of the Middle East Development and Science Institute (MEDSI), Washington, D.C.; and President of the Northeast Pennsylvania Association of Arab-Americans.

Dr. Wagiha Taylor, President of the AEAS for the four years was assisted by hard working board members during her two terms. Dr. WaguihElMaraghy from McCaster University, Dr. FaroukHamouda from Glen Ellyn Clinic, Chicago, Dr. HodaElmaraghy Dean of Engineering at the University of Windsor, and Dr.Morcos Massoud Robert A. Day Distinguished Professor Claremont College , Clermont, California served with her as Vice Presidents. Dr. Ibrahim M. Badawi from St. Johns University, NY served as very able and capable secretary. Dr. Hassan Ali Associate Professor of Economics at Ohio State University and Dr. Azmi Mikhail from Ohio University were very helpful treasurers.

During her tenure as President Dr. Wagiha Taylor also created several committees to help with the functioning of the AEAS. Previously, she served as Vice President, Secretary, and a member of the Advisory Board for AEAS; and Vice President of the Wilkes Faculty Women’s Caucus. She is a Founding and Life Member of the Eastern Economic Association and the Congress of Political Economists, International. She has traveled on business to Europe, the Middle East, the Far East, South America, South Africa, and Australia. She is married and has three children.

Dr. Ayman El-Mohandes

President: 2003-2006



Born in Cairo, Egypt, Dr. El-Mohandes, 57, is an educator, practitioner and researcher. He has served on the faculty of George Washington University (GWU) in Washington since 1985 after completing his training in pediatrics and neonatal medicine at DC Children's Hospital.

After serving in the School of Medicine for 12 years, he joined the School of Public Health and Health Services at GWU to become its associate dean for research and one of its founding faculties. He is currently a tenured professor and chairman of the department of prevention and community health in the School of Public Health and Health Services as well as a practicing neonatologist and a professor of pediatrics and obstetrics and gynecology in the School of Medicine and Health Sciences.

Fluent in English, Arabic and French, Dr. El-Mohandes has participated in global health projects in Egypt, Indonesia, South Africa, India and Kyrgyzstan. He will become the second dean of the UNMC College of Public Health, which became operational in January 2007. The founding dean of the college, Jay Noren, M.D., stepped down last summer to become president of Wayne State University in Detroit. Dr. El-Mohandes has received uninterrupted research funding from the National Institutes of Health (NIH) since 1994. During his career, he has received more than \$15 million from federal agencies, including the NIH and the Centers for Disease Control and Prevention. In 2001, he received the highest award given by GWU Medical Center when he was named the Distinguished Researcher of the Year.

In 2001, Dr. El-Mohandes was selected as the executive principal investigator for the DC Initiative to Reduce Infant Mortality in Minority Populations through the National Institute of Child Health and Human Development (NICHD). This project recruited more than 1,000 pregnant mothers in the Washington area and retained more than 90 percent over three years in a randomized trial testing the efficacy of cognitive behavioral interventions delivered during prenatal care to high-risk minority women.

Dr. Amer El Ahraf

President: 2007-2008



Named by the Journal of Environmental Health as “one of the 15 Leaders of Environmental Health” ; and described by the Orange Coast Voice , a newspaper in California, as the “ Renaissance Man of Huntington Beach” for his dual interest in science and humanities as well as his contributions to environmental and public health and the Arabic language

and literature , Dr. Amer El-Ahraf is a Professor of Health Sciences and Vice President Emeritus at California State University, Dominguez Hills and an Adjunct Professor of Arabic where he also directs the Arabic Studies Program at Chapman University. He is active on national and international levels as a Permanent Guest Professor of International. Intercultural Environmental Management at Fulda University, Germany, an Honorary Professor of Environmental Sciences at Lagos State University, Nigeria and a Visiting Professor at Zagazig and Benha Universities in Egypt. He is a graduate of the Faculty of Veterinary Medicine, Cairo University where he served as a “ Moeid” of Toxicology, Pharmacology and Forensic Medicine and the UCLA School of Public Health where he majored in both Environmental and Nutritional Sciences and earned his degree “ With Distinction”. This kind of an education characterized by breadth and depth fit in Dr. El-Ahraf’s comprehensive view on Environmental and Public Health and his vision of their role in service to humanity. His research on liver cancer and Aflatoxin, an environmental carcinogen found in peanuts and other foods, was motivated by his concern for children in the United States and Africa where peanut butter or peanuts form a significant part of their diet. He is among the pioneers of exploring the role of dietary modifications, and particularly Linoleic Acid, in reducing the incidence and severity of liver cancer. After graduation from UCLA and before returning to teaching, his commitment to service led him to partnership with Compton-Willowbrook community, to improve environmental and public health conditions in one of the most disadvantaged districts in the inner city of the Los Angeles area. This work led to his invitation to speak

before the U.S. President's Committee on Health Education». Besides serving the citizens of his new land , Dr. El-Ahraf wanted to draw lessons that can be helpful in serving the citizens of his homeland.

In building his distinguished career, Dr. El-Ahraf never forgot his roots. He has partnered with Egyptian universities to consult on the mission of some of the new universities at the time of their initiation .He recommended the consideration of establishing the study of wild life and its significance to the Sinai Peninsula at Suez Canal University. He established with his Egyptian colleagues new programs such the Environmental Health Research Group at the Faculty of Veterinary Medicine and the Environmental Sciences Program at the Faculty of Engineering at Zagazig University. He supervised the research of scores of Ph.D. and Post-Doctoral Egyptian colleagues with an eye on linking their field of academic interest with that of Egypt's urgent concern with protecting the nation's environment, its historical heritage and health of its people.

As President of the Association of Egyptian American Scholars, Dr. El-Ahraf, with the support of an excellent Board of Directors, initiated a partnership with the Egyptian Ministry of Higher Education where three major sectors were selected for modernization .Included were the Commerce, Engineering and Medical Sectors where Dr. El-Ahraf also co- chaired the Medical section with Dr. Tawfik Ayoub in partnership with Dr. Rashed Barssom on the Egyptian side. Also, during his presidency, the Board of Directors engaged in developing the AEAS Strategic Plan that addressed among other things the issue of enhancing intrinsic Egyptian Research and Technology capacities, a topic that represents the theme of this year's conference. Under his stewardship, the AEAS was held in California where the Association facilitated the work on Accreditation led by Dr. Salwa El-Gharib to learn from the American experience and to benefit Egyptian universities. The 2007 California Conference saw active participation by accomplished Egyptian professors, department chairs, deans and university presidents at the time including Dr. Hind Hanafy, Dr. Galal El-Said and Dr. Maher Domiaty of Alexandria, Fayoum and Zagazig respectively. During his presidency, Dr. El-Ahraf initiated new traditions for the AEAS among which is establishing Scholarship Awards named after distinguished departed presidents to be given to bright Egyptian graduate students. So far, scholarship awards have been issued in the names of Past President Dr. Badr Ewies and Founding President Dr. Mohamed El-Wakil. When the current President Dr Mohamed Attalla delivers his Address in the 2012 Conference, it will be a continuation of a tradition that Dr . El-Ahraf established in 2008 when he initiated the process of giving the AEAS President's Address in Arabic.

The son of a teacher of Arabic and a School Principal, Amer's love of Arabic poetry and commitment to academia are understandable. His Diwan “ Mean Al

Watan Ela Mhger “ is being published in Egypt. His academic titles included those of Professor, Department Chair, Vice President and President. His academic programs are characterized by innovation and cooperation. Examples include Environmental Quality and Health at the University of California, Irvine (UCI), Health Science and Human Ecology at CSU, San Bernardino, a National Model in Health Administration and Planning, a Comprehensive Environmental Sciences Program at Zagazig University where every Faculty is encouraged to develop an environmental orientation to its major in service of Egypt.

Community service is not new to Amer. In the US, he established the “Egyptian Scientific Society” in the Los Angeles area which included recent doctoral degrees and graduate students to help Egypt, an organization that served as a precursor of the AEAS in Southern California and later on became an active part of the new Association founded by Dr. Mohamed El-Wakil. He served his local Egyptian American community as Chairman of the EAO. He plays an active role in promoting interfaith harmony through the Orange County Interfaith Collation on the Environment (OCICE) where he served as Board Member and now as an Adviser. He serves in a similar capacity to the Board of the Sister City Program (Sonoma, California and Aswan, Egypt). And not only Egypt, He served Saudi Arabia as Consultant for the World Health Organization (WHO), Syria as a reviewer of translated environmental health material and Jordan by establishing relations with his American university. Dr. El-Ahraf has been recognized by the Los Angeles County Board of Supervisors for “Promoting a Better Understanding between the Egyptian and American Cultures”. He is listed WHO>s WHO AMONG ARAB AMERICANS. His own Egyptian American community honored him with the « Life Time Achievement Award».

His leadership is exemplified by holding the title of President in other professional and academic societies such as the National Environmental Health Association (NEHA), The California Environmental Health Association (CEHA), the International Environmental Health Faculty forum (IEFF) and the American-European University Consortium (AEUC).

Among the honors, awards and recognition received in his field of study are: the “Mangold Award” for Excellence in Environment Health, the «Snyder Award» for Achievements in Environmental Health, the Stuart Richardson Educational Award and a Fullbright Scholarship. He is listed in WHO>S WHO in AMERICA

His is the author of over 200 scientific papers, books, book chapters, technical reports, and keynote speeches covering the areas of public health, Arabic and university management.

Dr. Mohamed Attalla

President: 2009-2010, 2011-Present



Associate Vice President, McMaster University

Dr. Mohamed Attalla obtained both a Master's degree and a Ph.D. in Construction Engineering and Management from the University of Waterloo in Canada. He obtained his Bachelor of Engineering from Ain Shams University.

Dr. Attalla became AEAS's Ninth president in 2009 after a very long exemplary service to AEAS. He has been an active member since 1998 and served as Secretary General 2003-2006 and Vice President 2007-2008. He also organized many AEAS conferences, served as Conference's Registrar 2001 and 2002, served as Chair, Conference Organization 2004 and 2006 and as Conference Chair from 2008 to 2012.

He also coordinated collaboration with the Higher Education Enhancement Program Fund (HEEPF) as well as collaboration with the Faculty Leadership Development Program in Egypt. These are two programs aimed at enhancing the academic programs at Egyptian universities as well as enhancing the leadership capacity of faculty members. Dr. Attalla lead the AEAS quarterly review for HEEPF program

Among other AEAS services was the organization as well as the delivery of workshops to administrators, faculty members and researchers at the National Research Center, Ain Shams University, Suez Canal University, Fayoum University and Cairo University among others. He coordinated research activities with Egyptian institutions; worked tirelessly to increase AEAS membership and visibility; built strong ties with the Ministry of Higher Education and its programs; instituted strong channels of collaboration with the National Research Centre; contributed research papers in all conferences in the past 14 years and coordinated the massive undertaking of the Engineering Sector Modernization project between AEAS members and the Ministry of Higher Education and its Supreme Council of Universities in Egypt

through the Engineering Sector committee. Collaborating with young researchers, he also served as an external examiner on many Ph.D. thesis in Egyptian Universities.

Dr. Attalla also coordinated two successful workshops in Washington and Montreal, working with the Cultural Offices in both consulates, for the National Authority for Quality Assurance and Accreditation in Higher Education. He also served as member on the development of the Fiber Reinforced Polymers code with the Housing and Building Research Center.

Dr. Attalla, holds a Senior Executive position at McMaster University and also teaches Construction Project Management and Quality and Risk Management. He also serves as an Adjunct Professor at both University of Waterloo and Ryerson University, he delivers different construction and project management courses, serves on Masters and Ph. D. committees and supervises and co supervises advanced graduate research.

Dr. Attalla also served in different academic and professional capacities such as the Chair of the Program Advisory Council - Department of Architectural Sciences in Ryerson University, Chair of the Construction Division, Canadian Society for Civil Engineering, and Chair of its International Construction Conference, 2005, 2011 and 2013. He is a member of the Productivity Advisory Committee for the Canadian Construction Sector Council. Dr. Attalla published over 30 papers in international journals and international refereed conferences in a wide array of topics including Construction Management, Facilities Condition Assessment, Infrastructure Management and Sustainable Construction and Green Buildings.

Dr Attalla He received different awards including Fellow of the Canadian Society for Civil Engineering, Award of Excellence from the Ministry of Infrastructure Renewal in Canada and the prestigious annual Engineering Medal in Management from the Association of Professional Engineers in Canada, 2011.

As part of his different public service experiences, Dr. Attalla was the first Canadian from Egyptian and Arabic origin to be elected to the position of Vice President of the governing Liberal Party in Canada where he lead many multicultural communities towards a common goal which was a very rewarding experience in public offices.

AEAS Boards

1974-1976

President	Dr. M. M. El-Wakil (Founder)
Vice-President	Dr. M. Cherif Bassiouni
Vice President	Dr. Abdel Maguid Ahmed
Secretary	Dr. Mahmoud El-Shazly
Treasurer	Dr. Samir Kamal

1977-1978

President	Dr. M. M. El-Wakil
Vice-President	Dr. M. Cherif Bassiouni
Vice-President	Dr. Abdel Maguid Ahmed
Secretary	Dr. Mohamed Abou-El-Seoud
Treasurer	Dr. Samir Kamal

1979-1980

President	Dr. M. Cherif Bassiouni
Vice-President	Dr. Salah E. Elmaghraby
Vice-President	Dr. Mostafa El-Sayed
Secretary	Dr. Alfred G. Bishara
Treasurer	Dr. M. M. El-Wakil

1981-1984

President	Dr. M. M. El-Wakil
Vice-President	Dr. Ibrahim M. Oweiss
Vice-President	Dr. Samir Kamal
Secretary	Dr. Mohamed Abou-El-Seoud
Treasurer	Dr. Younan Sidky

1985-1986

President	Dr. Ibrahim M. Oweiss
Vice President	Dr. M. Cherif Bassiouni
Vice President	Dr. M. Eid Moustafa

Secretary	Dr. Wagiha Taylor
Treasurer	Dr. Albert T. Awad
Ex-Officier	Dr. M. M. El-Wakil

1987-1988

President	Dr. Ibrahim M. Oweiss
Vice President	Dr. Mohamed Abou-El-Seoud
Vice President	Dr. M. Cherif Bassiouni
Secretary	Dr. Wagiha Taylor
Treasurer	Dr. Albert T. Awad
Ex-Officer	Dr. M. M. El-Wakil
Legal Counsel	Dr. Cherif Sedky

1989-1990

President	Dr. Mohamed Selim
Vice President	Dr. Mohamed Abou-El-Seoud
Vice President	Dr. Badr El Din Ali
Secretary	Dr. Samir Kamal
Treasurer	Dr. Nessim Hanna
Ex-Officer	Dr. Ibrahim M. Oweiss
Legal Counsel	Cherif Sedky

1991-1992

President	Dr. Badr El Din Ali
Vice President	Dr. Wagiha Taylor
Vice President	Dr. Mohamed Osman
Secretary	Dr. Samir Kamal
Treasurer	Dr. Nessim Hanna
Legal Counsel	Dr. Cherif Sedky

1993-1994

President	Dr. Badr El Din Ali
Vice President	Dr. Khalil H. Mancy
Vice President	Dr. Mohamed Mostafa
Secretary	Dr. Mohsen Bagnied
Treasurer	Dr. Azmi D. Mikhail

1995-1996

President	Dr. Wagiha Taylor
Vice President	Dr. WaguihElmaraghy
Vice President	Dr. Farouk Hammouda
Secretary	Dr. Ibrahim Badawi
Treasurer	Dr. Azmi Mikhail
Legal Counsel	Dr. CherifSedky

1997-1998

President	Dr. Wagiha Taylor
Vice President	Dr. Farouk Hammouda
Vice President	Dr. HodaElmaraghy
Secretary	Dr. Ibrahim Badawi
Treasurer	Dr. Hassan Aly
Legal Counsel	Dr. CherifSedky

1999-2000

President	Dr. Badr El Din Ali	Vice President	Dr. Mohamed Shokr
Vice President	Dr. Salah Hassan		
Secretary General	Dr. Amer El Ahraf		
Treasurer	Dr. RagiMitias		

2001-2002

President	Dr. Badr El Din Ali
Vice President	Dr. Mohamed Shokr
Vice President	Dr. Salah Hassan
Secretary General	Dr. Amer El Ahraf
Treasurer	Dr. RagiMitias

2003-2004

President	Dr. Ayman El Mohandes
Vice President	Dr. Mohsen Bagneed
Vice President	Dr. Ramses Toma
Secretary General	Dr. Mohamed Attalla
Treasurer	Mr. Abd El Wahab El Abd

2005-2006

President	Dr. Ayman El Mohandes
Vice President	Dr. Mohsen Bagneed
Vice President	Dr. RamsesToma
Secretary General	Dr. Mohamed Attalla
Treasurer	Mr.Abd ElWahab El Abd

2007-2008

President	Dr. Amer El Ahraf
Vice President	Dr. Mohamed Attalla
Vice President	Dr. Anwar Abd El Fatah
Secretary General	Dr. MohabAnis
Treasurer	Dr. LotfyGreish

2009-2010

President	Dr. Mohamed Attalla
Vice President	Dr. TawfikAyoub
Vice President	Dr. Aly Mansour
Secretary General	Dr. Adel Talaat
Treasurer	Dr. Mohamed Hegab

2011-2012

President	Dr. Mohamed Attalla
Vice President	Dr. TawfikAyoub
Vice President	Dr. Aly Mansour
Secretary General	Dr. Adel Talaat
Treasurer	Dr. Mohamed Hegab

Meet Past AEAS Board Members

Dr. Mostafa El-Sayed

Vice President: 1979-80, 1993-94



Mostafa El- Sayed is an Egyptian-American chemical physicist and a leading nanoscience researcher. He is best known for the spectroscopy rule named after him, the El-Sayed Rule.

El-Sayed earned his B.Sc from Ain Shams University of Science in 1953. Mostafa earned his doctoral degree from Florida State University working with Michael Kasha, the last student of G.N. Lewis. El-Sayed spent time as a researcher at Harvard University, Yale University, and the California Institute of Technology. Currently, Mostafa is the Julius Brown Chair and Regents Professor of Chemistry and Biochemistry at the Georgia Institute of Technology. He runs the Laser Dynamics lab and is a former editor-in-chief of the Journal of Physical Chemistry.

Research








Dr. El-Sayed and his research group have been innovators in many important areas of physical and materials chemistry research. Research interests include: the use of steady-state and ultra-fast laser spectroscopy to understand relaxation, transport and conversion of energy in molecules, in solids, in photosynthetic systems, semiconductor quantum dots and metal nanostructures.

Currently, his lab focuses on the optical and chemical properties of noble metal nanoparticles and their applications in nanocatalysis, nanophotonics and nanomedicine. Dr. El-Sayed's lab is best known for the development of the gold nanorod technology.

Dr. El-Sayed has over 500 publications under the topics of spectroscopy, molecular dynamics and Nano science. Additionally, El-Sayed has supervised the work of over 70 Ph.D. students; 35 postdoctoral students and 20 visiting professors.

Honours:

- 🌐 In 2002, El-Sayed won the Irving Langmuir Award in Chemical Physics.
- 🌐 He has also been the recipient of the 1990 King Faisal Internional Price (The Arabian Nobel Prize) in Sciences.
- 🌐 Georgia Tech's highest award, "The Class of 1943 Distinguished Professor", an honorary doctorate of philosophy from the Hebrew University
- 🌐 He was a Sherman Fairchild distinguished scholar at the California Institute of Technology and an Alexander Von Humboldt Senior U.S. Scientist Awardee
- 🌐 Served as the U.S. editor of the International Reviews in Physical Chemistry
- 🌐 Fellow of the American Academy of Arts and Sciences, a member of the American Physical Society, The American Association for the Advancement of Science and the Third World Academy of Science
- 🌐 2007 recipient of the U.S. National Medal of Science
- 🌐 2009 recipient of Ahmed Zewail Prize in Molecular Sciences
- 🌐 The Distinguished Teaching Award, UCLA, 1964
- 🌐 The Alfred P. Sloan Fellowship, September 1965-September 1971
- 🌐 John Simon Guggenheim Memorial Foundation Fellowship, 1967-1968
- 🌐 Fersenius National Award in Pure and Applied Chemistry, April 1967
- 🌐 The McCoy Research Award, UCLA, October 1969
- 🌐 Alexander von Humboldt Senior U.S. Scientist Award 1982
- 🌐 Recipient of the Egyptian American Outstanding Achievement Award, 1988
- 🌐 Recipient of the 1990 King Faisal International Prize in the Sciences (Chemistry)
- 🌐 Recipient of a number of American Chemical Society sectional Awards such as the Gold Medal of the Southern California Section ; the Tollman Award; the Florida Section; the Richards Medal of the North Eastern section and the Linde Medal of the Tennessee section.
- 🌐 The 1991 UCLA Faculty Research Lecturer for 1990-1991
- 🌐 Recipient of the Harris Award, University of Nebraska, Lincoln, NE 1995

-  King Faisal International Prize in Science
-  Selected to be the 2007 Distinguished Professor of Georgia Institute of Technology , 2007
-  Selected to be the Distinguished Professor of the year of Georgia Institute of Technology, 2007
-  Invited Special Named Lectures
-  Invited Talks and Plenary Talks: Over 300 were given at National Meetings; over
-  200 were delivered at International Meetings and over 420 seminars were given at
-  Research Institutes.

The El-Sayed Rule

Intersystem Crossing (ISC) is a photophysical process involving an isoenergetic radiationless transition between two electronic states having different multiplicities. It often results in a vibrationally excited molecular entity in the lower electronic state, which then usually decays to its lowest molecular vibrational level. ISC is forbidden by rules of conservation of angular momentum. As a consequence, ISC generally occurs on very long time scales. However the El-Sayed's rule states that the rate of intersystem crossing, e.g. from the lowest singlet state to the triplet manifold, is relatively large if the radiationless transition involves a change of molecular orbital type. For example a (π, π^*) singlet could transition to a (n, π^*) triplet state, but not to a (π, π^*) triplet state and vice versa. This rule found in most photochemistry textbooks is useful in understanding phosphorescence, vibrational relaxation, intersystem crossing, internal conversion and lifetimes of excited states in molecules.

Dr. Adel S. Elmaghraby

Secretary



Dr. Adel S. Elmaghraby is Professor and Chair of the Computer Engineering and Computer Science Department at the University of Louisville. He has also held appointments at the Software Engineering Institute - Carnegie-Mellon University, and the University of Wisconsin-Madison. He advised over 60 master's graduates and 20 doctoral graduates.

His research contributions and consulting spans the areas of Intelligent Multimedia Systems, Neural Networks, PDCS, Visualization, and Simulation. His Research applications include medical Imaging, Bioinformatics, and Computer-Aided Diagnostics.

He is a well-published author (over 200 publications), a public speaker, member of editorial boards, and technical reviewer. He has been recognized for his achievements by several professional organizations including a Golden Core Membership Award by the IEEE member of the Engineering in Medicine and Biology Society, the Computer Society, and Computational Intelligence Society.

Dr. Elmaghraby continued collaborations, mentoring, and scientific contributions have resulted in published articles in many prestigious journals such as IEEE-TMI, Medical Physics, Journal of Neuroscience Methods, and Protein Engineering. He is also an active member of the IEEE-CS Technical Activities Board and chair of the emerging technologies initiatives and is a proud Honorary Kentucky Colonel.

Dr. Salah Eldin Elmaghraby

Vice President: 1979-1980



Salah E. Elmaghraby earned a Bachelor's degree in Mechanical Engineering from Cairo University in 1948, a Master of Science degree in Industrial Engineering from Ohio State University in 1955 and a Ph.D. from Cornell University in 1958. He is University Professor Emeritus at the Edward P. Fitts Department of Industrial and Systems Engineering at North Carolina State University, where he has been a professor of Operations

Research and Industrial Engineering since 1967. He established the interdisciplinary Graduate Program in Operations Research and was its Director of from 1970 to 1989. Previously, he was Associate Professor at Yale University; Research Leader at the Western Electric Engineering Research Center in Princeton, NJ; and Visiting Professor at Cornell University, the Katholieke Universiteit Leuven (Belgium) and the FUCAM (Belgium), the Claude Bernard Université Lyon I (France), the Nagoya Institute of Technology (Japan) and the University of Valenciennes, France. He has twelve years of industrial experience, including seven abroad in Kuwait (where he was Principal Scientist and Project Leader for two years) and Europe (the U.K., Belgium and Hungary where he was Inspecting Engineer for the Egyptian Railways for five years). He has served as reviewer for many US and European journals; was Associate Editor for the IIE Transactions, Regional Editor (the Americas) for the Int'l J. of Production Economics and was the founder and editor-in-chief of the Journal of Operations and Logistics, 2004-2011.

Professor Elmaghraby is a recipient of numerous awards and honors, including the David F. Baker Distinguished Research Award (IIE, 1970), the Operations Research Division Award (IIE, 1980), the R.J. Reynolds Distinguished Award in Research and Education (College of Engineering, NCSU, 1987), the Kuwait Foundation for the Advancement of Science Distinguished Award (1990), the Alexander Quarles Holladay Medal for Excellence (NCSU, 2000), and the Frank and Lillian Gilbreth

Industrial Engineering Award (IIE, 2003). He obtained an Honorary Doctorate from the Université Claude Bernard Lyon I (France, 1998). He was elected Fellow of the Institute of Industrial Engineers in 1986, and Fellow of the Institute for Operations Research and Management Sciences (INFORMS) in 2004.

Professor Elmaghraby has written four books, among them the seminal production management text *The Design of Production Systems* (Reinhold, 1966) and the pioneering activity networks textbook *Activity Networks* (Wiley, 1977). He edited/co-edited three books, contributed chapters in nine books, and authored/co-authored over 118 published papers.

He initiated the research in generalized activity networks by developing an algebra for the analysis of networks in which activities may be undertaken probabilistically. By providing the theoretical foundations, he paved the way for what later became the GERT model (Graphical Evaluation and Review Technique) and the special purpose GERTS simulation models.

Professor Elmaghraby developed numerous deterministic and stochastic algorithms for scheduling and sequencing problems involving single and parallel machines, flowshops and jobshops. Most noteworthy and of fundamental impact, however, is his work in the domain of activity networks. He pioneered in the analysis of probabilistic and generalized activity networks, the analysis of activity networks under generalized precedence relations, network representation problems and methodologies for criticality and sensitivity analysis. He made fundamental contributions in the use of stochastic and chance-constrained programming and Petri nets, and published seminal papers on project compression and time/cost trade-off analysis, project bidding, project risk management, complexity issues and test set generation.

Over the years, Professor Elmaghraby has supervised over 60 doctoral and master's students in the US and abroad, and inspired an extensive population of researchers over the world. At the age of 84, he still continues his research in the field of project planning and control.

Dr. Waguih E. ElMaraghy

Vice President: 1995-1996



Dr. Waguih H. ElMaraghy is Professor and Head of the Department of Industrial and Manufacturing Systems Engineering (IMSE), Faculty of Engineering, University of Windsor. He is also Co-Director of the Intelligent Manufacturing Systems (IMS) Centre, a centre of research excellence for product design, and manufacturing systems design, planning, and operation.

Professor Waguih ElMaraghy has extensive experience as a scholar, academician, and practicing engineering as former Chief Design Engineer in Industry. He has published over 240 papers in the most prestigious journals and major conferences with many as keynote papers and/or plenary presentations. He has over 100 Industry reports, in addition to several Patents and five co-edited Books. He works closely with key researchers and industry both in Canada and abroad, and has participated as a Principal Investigator in national and international research projects. Dr. ElMaraghy's latest CIRP keynote paper contributions are in the areas of management of complexity in products, systems and networks, entitled "Complexity in Design and Manufacturing", and a new design engineering paradigm "Engineering Design as Collaborative Negotiation (ECN)" which is also elaborated on in a Portal by that name.

Dr. Waguih ElMaraghy has contributed to the education of numerous undergraduate and graduate students and supervised many Theses and Dissertations to successful completion. This training of the HQP (Highly Qualified Personnel) from Canada and elsewhere has significantly contributed to success of the graduates and their careers in Academia, Industry and Consulting.

At the University of Windsor, Dr. ElMaraghy has lead and/or significantly contributed to several important initiatives as Professor, Department Head, as well as Special Advisor to the Vice-President Academic on University/Industry Partnerships. This included the establishment of the Intelligent Manufacturing Systems Centre (IMS), the University of Windsor/Chrysler Canada Automotive Research Centre,

the CEAB accredited and award winning Industrial and Automotive Manufacturing Engineering undergraduate program and the OGS approved, multidisciplinary Ph.D. program in Industrial and Manufacturing Systems Engineering, which has attracted many new Ph.D. students from Canada and beyond. These transformational initiatives are resulting in exciting multi-disciplinary Programs, such as this IMSE Ph.D. Program with several participating departments and faculties.

Dr. ElMaraghy has taught as well as offered graduate and research Seminars at several international universities and conferences in Canada, the US, Egypt, Germany, France, United Kingdom, China, Singapore, etc. He has also led the newest initiative, of setting up a first in Canada Undergraduate Program: A Bachelor of Engineering Arts in Management Engineering (BEA-ME). Graduates with the ability to understand both complex technological processes and the creative arts and social skills are increasingly sought after in today's industrial and business world, as well as in the service industries and public service. The vision is that this program will emphasize multi-disciplinary team projects and real experiences: "learning by doing" to engineering the management of any enterprise or system.

Dr. Waguih ElMaraghy is a registered Professional Engineer in the Province of Ontario Canada, as well as his native Egypt. He is an elected Fellow of the International Academy for Production Engineering (CIRP), the American Society of Mechanical Engineers (ASME) and the Canadian Society for Mechanical Engineering (CSME); as well as a Senior Member of the Society for Manufacturing Engineers (SME), and Honorary Fellow of Engineers Canada, and a Fellow of the Canadian Academy for Engineering.

Dr. Waguih ElMaraghy has also been active in national and international research collaboration and professional service. He has contributed his time and expertise to advance the engineering education, curriculum development and accreditation as one of the longest serving members of the Academic Requirements Committee (ARC) of Professional Engineers Ontario. The mandate of the ARC is to assess the academic qualifications of applicants referred to it for applicants who have requested the review of their qualifications, and advise Professional Engineers Ontario (PEO), the largest Professional Engineering Society in Canada with over 70,000 members, on academic matters relating to PEO admission procedures and policies, and oversee the Professional Practice Examination. The ARC also works to accommodate emerging engineering disciplines of diverse foreign-trained applicants.

The ARC also works in collaboration with some Universities on its initiative to integrate international engineering graduates (IEGs) into Ontario's engineering workforce. The Internationally Educated Engineers Qualification Bridging (IEEQB) program is a bridging program that provides IEGs an alternative path to licensure by

taking a combination of engineering courses to fulfill their academic requirements for licensure and by participating in a four-month work term (engineering internship). This has been, together with his other professional volunteer service with CEAB (Canadian Engineering Accreditation Board, established by the Canadian Council of Professional Engineers (CCPE), the CEQB (Canadian Engineering Qualifications Board, established by Engineers Canada in 1986). For his long-time volunteer service, Engineers Canada, bestowed upon Dr. Waguhi ElMaraghy in 2011 the title of Fellow Engineers Canada (FEC) “in honour of exceptional contributions to the Engineering Profession in Canada”. Engineers Canada is the national organization of the 12 provinces and territorial associations that regulate the practice of engineering in Canada.

Dr. Waguhi ElMaraghy has also been a participant in UNDP TOKTEN Projects which he has contributed significantly to the academic scholarly work as well has been an invited keynote speaker at conferences and engineering association meetings, including the Egyptian Society for Mechanical Engineering. In their next meeting in March 2013 in Alexandria “Knowledge & Innovation; Our way To Sustainable

Development”, he will address the important subject of “Basic Requirements for the Settlement of the Knowledge Economy”. Dr. ElMaraghy has actually contributed significantly to the industrial and knowledge economies in both Canada and Egypt. In Canada through his work in industry in the position of Chief design engineer and his well-established record of achievements, notable amongst them was the design, development and building of Canada’s high speed LRC train (LRC- Light/ Rapid/Comfortable) and the innovative, award winning, Ontario double deck GO (government of Ontario) commuter train that has changed the transportation landscape in that Province and beyond. In Egypt, through the UNDP TOKTEN (Transfer of Knowledge and Technology by Expatriate Nationals) he helped train a generation of engineers in the Egyptian railway industry, who have in turn contributed to the development of that important industrial sector.

Dr. Hoda El Maraghy

Vice President: 1997-1998



Dr. Hoda A. ElMaraghy is a Professor of Industrial & Manufacturing Systems Engineering and the founding Director of the Intelligent Manufacturing Systems (IMS) Centre at the University of Windsor. She holds a Tier I Canada Research Chair in Manufacturing Systems since 2002. She obtained a Master and PhD degrees from Mechanical Engineering at McMaster University where she became a Professor and founding Director of its Flexible Manufacturing Research and Development Centre until she

moved to the University of Windsor in 1994 to become the First Woman Dean of Engineering in Canada. She is featured as a role model in the book: “Northern Lights: Outstanding Canadian Women”, by Green et al., Ed. K. Koh, Ru'bicon Publ., 2004.

Professor ElMaraghy is a Fellow of the International Academy of Production Research (CIRP), Society of Manufacturing Engineers (SME), Canadian Society of Mechanical Engineers (CSME) and a senior Member of the American Society of Mechanical Engineers. She received numerous honors and awards for her leading edge excellent research contributions. She received the APEO Medal for Research and Development awarded by the Association of Professional Engineers Ontario “In recognition of the pioneering research in flexible manufacturing and contributions to the stature of engineering”. Dr. ElMaraghy is a registered Professional Engineer in Ontario Canada, as well as in Egypt.

Dr. H. ElMaraghy serves on several international advisory boards and important academic committees in North America and Europe. She is a member of the International Advisory Board (ISAB) of the VINN Centre of Excellence for Efficient Product Realization, Chalmers University, Sweden and served as a member of the international scientific board for award and assessment of clusters and centers of

excellence on behalf of the Canadian Natural Science and Engineering Research Council, Swedish Strategic Research Foundation Council, and the German Research Council and European Union initiative on Manufacturing of the future. She was a member of the Canadian Defense Science Advisory Board and the Education Quality and Accountability of Ontario and an International Director of the Society of Manufacturing Engineers (SME) in USA. She is currently a consultant to Industry Canada on Strategic Future Manufacturing Road Map for Canada. She consulted for industry in Canada and internationally.

Dr. HodaElMaraghy played a major role in establishing a unique University/industry collaborative model: the University of Windsor / Chrysler Canada Automotive R&D Centre which continues to foster innovative joint industry / University research and training projects.

Professor ElMaraghy is in high demand internationally as a Keynote Speaker on innovation in products and manufacturing and economic sustainability including recently in France, Germany, Canada, Finland, Portugal and Norway.

Professor ElMaraghy's areas of research interests include: Manufacturing Systems Paradigms (Flexibility, Reconfiguration and Changeability), Products and Production Systems Co-Evolution, Systems Complexity, Managing variety in products and manufacturing systems, agility, productivity and global competitiveness, Process and Production Planning, Rapid Products Development and prototyping, Assembly, and Robotics. The Intelligent Manufacturing Systems (IMS) Center, of which she is a Director, includes the first of its kind in North America, and second in the world after one installed in the University of Stuttgart in Germany - a truly Reconfigurable and Changeable Assembly System (iFactory) and a Design Innovation Studio (iDesign). It is a "Factory-in-a-Lab." which provides a unique experiential learning opportunity as well as a test bed for advanced research results in modern manufacturing systems paradigms.

Professor H. ElMaraghy participated in several multi-disciplinary and collaborative research projects in Centers of research excellence in Ontario (MRCO), Institute Robotics and Intelligent Systems (IRIS), Automotive Research (Auto-21) network of centers of excellence and several international collaborations. She attracted more than \$20M in research grants and contracts.

Dr. HodaElMaraghy has over 430 referred journal and conference publications to her credit. She is the Editor of 4 books and contributed to 25 others. She is a member of the Editorial boards of 10 high impact international journals, a reviewer for over 25 International Journals and member of the international scientific committees of numerous international conferences.

Professor HodaElMaraghy taught many graduate and undergraduate courses in Canada and abroad including in Germany, China and Singapore. She led the development of the innovative multidisciplinary Ph.D. program in Industrial and Manufacturing Systems Engineering which attracted many Ph.D. students from Canada and beyond.

Professor H. ElMaraghy trained more than 100 highly qualified personnel including PhDs, Masters and research engineers and assistants, several of whom received special awards, recognitions and scholarships, and many are now university professors and experts in industry.

Dr. Hoda ElMaraghy has maintained active association with her native Egypt over the years through funding and training of 15 PhDs who are helping the education and research efforts to advance innovation, knowledge and manufacturing competitiveness in Egypt and several are now holding academic positions in leading Egyptian Universities. Additional 6 PhD students are currently working in her research group. She has also participated in several UNDP TOKTEN (Transfer of Knowledge and Technology by Expatriate Nationals) Projects in Egypt. She has been invited as keynote speaker at international conferences at the Universities of Cairo and Alexandria. She has also contributed to the education development effort in Egypt directly and through the work and efforts of NAQAAE (National Authority for Quality Assurance and Accreditation of Education) as a member of its Quality Assurance Advisory Board in 2010.

Dr. Hoda ElMaraghy has participated in the activities of the Association of Egyptian American Scholars (AEAS) the mission of which is “To create a forum for North American Egyptian scholars that facilitates dialogue and promotes partnerships with Egyptian counterparts to implement beneficial scholarly endeavours”. She acted as AEAS Vice-president in the nineties and co-chaired a successful and well-attended AEAS Conference in Toronto in June 2-3, 2000.

Dr. Salah S. Hassan

Vice President: 2001-2002



Dr. Salah S. Hassan is Professor of Strategic Brand Management and served as Chairman for six years since 2005 and has been a professor at GWU School of Business since 1988. Dr. Hassan was recognized in 2005 with the “Outstanding Marketing Teacher” award by the Academy of Marketing Science. In recognition of his research on Strategic Brand Management, he was hosted by the US Embassy in Germany to speak on Nation Branding at an international symposium organized by the Institute for Cultural Diplomacy & was hosted by the US Embassy in Copenhagen to give a keynote address at a conference on nation branding and tourism development. Also, he was invited by the University of Birmingham Thought Leaders Conference to speak on Strategic Brand Management; by Kellogg School of Management to speak on Unlocking Brand Potential; and by Harvard Business School’s Open Innovations Workshop to speak on Harnessing User Innovations.

Dr. Hassan published well over 70 articles and papers in academic journals and trade periodicals. Dr. Hassan’s opinion has been cited by leading media organizations and trade publications, such as Reuters, Chicago Tribune, Advertising Age, AdWEEK, Campaign, Business Monthly, Gulf Marketing Review, and Marketing News. He published two books; Globalization of Consumer Markets and Global Marketing Perspectives and Cases. Dr. Hassan co-authored a new book entitled Marketing Management: Arab World Edition with Philip Kotler & Kevin Keller, Pearson Publishing.

Also, Dr. Hassan served on the consulting teams of several major international assignments that focused on such projects as strategic brand management, entrepreneurial marketing, economic development, destination branding, corporate branding, and CSR best-practice analysis. Dr. Hassan completed numerous national and international consulting assignments and executive development programs for organizations such as: Kellogg School of Management, The World Bank, Smithsonian

Institution, The US State Department, Ansell Healthcare Products, Raytheon International, International Institute for Tourism Studies, BlogCatalog, Winrock International, Porter/Novelli, USAID, the Fulbright Commission, International Food Institute in Australia, Saudi Arabian Airlines, the American University in Cairo, the Dubai School of Government, the American Chamber of Commerce in Egypt, and UAE National Council of Tourism & Antiquities.

In recognition of his achievements, Dr. Hassan received several awards from the Academy of Marketing Science, The American Marketing Association, and Ohio State University. Previously, Dr. Hassan served as Chairman of the Sustainable Development Forum, a think-tank organization of experts from a variety of disciplines representing 12 countries/ 5 continents to promote a deeper understanding of global development issues. Having lectured, consulted, and conducted research around the world, Dr. Hassan achieved the status of an “International Thought Leader”.

Dr. Ramses Toma

Vice President: 2003-2006



For more than 20 years, Ramses Toma has shown time after time that he is a “student’s professor” at CSULB, and perhaps it is that reputation which stood out most when the professor of food science and nutrition was selected as a recipient of one of the campus’ 2005 Outstanding Professor Awards.

Toma, who joined the CSULB faculty in 1984, was pleased to receive the award because it is good recognition for the campus’ Department of Family and Consumer Sciences and College of

Health and Human Services.

Toma’s current research has focused on anti-oxidants in foods. In particular, there are natural anti-cancer agents in some foods such as lycopene in tomatoes and resveratrol in blueberries.

Dr. Mohamed Hegab


Treasurer: 2009-2012



Education:

 PhD, Civil Engineering/ Construction Management, NDSU, Fargo, ND, 2003

 MSc, Civil Engineering / Structural Engineering, Cairo University, 1998.

 BSc, Civil Engineering, Cairo University, 1992.

Dr. Hegab has over 20 years of diverse range of experience managing the project controls and claims on public, commercial, and construction projects. He has particular extensive expertise in project scheduling, claim analysis, negotiations, and resolution, cost estimating and controls. He has expertise in productivity analysis and improvement, and reengineering business processes.

He led the development of the “Schedule Cracker” software. Schedule Cracker® is an enterprise class Scheduling Analysis and Business Intelligence tool for Project Management and right at your desktop. Leveraging the latest technology and standards for software development to fully comply with the DCMA, GAO, and EVM ’ s ANSI 748 standards. Schedule Cracker’s procedures analyze and compare project schedules for alerts, trends the project ’ s performance over multiple schedule revisions, forecasts future performance, and performs full earned value analysis.

In academia, Dr. Hegab taught several construction management and civil engineering courses such as project management, scheduling, cost estimating, labor productivity, and contract and specifications several times at California State University Northridge, and North Dakota State University. He led the Construction Management program from its initiation through being accredited by ACCE. He is an ABET evaluator for the civil and construction engineering programs. He has authored several innovative technical papers that have been published in prestigious journals.

Dr. Adel Talaat

Secretary General: 2009-2012



Title: Professor of Microbiology

Academic Affiliation: -Dept. Pathobiological Sciences, School of Veterinary Medicine, University of Wisconsin-Madison, USA.

-Dept. of Food Hygiene, Faculty of Veterinary Medicine, Cairo University, Egypt.

Industrial Affiliation: CEO of Pan Genome Systems, INC

Research Interest at the University of Wisconsin-Madison.

The research in my laboratory involves the use of innovative approaches to understand the basics of bacterial pathogenesis on a genome-wide scale. Definitely, we advocate the idea of “useful genomics” where genome-wide protocols are used to better understand the disease process or to discover novel vaccine and drug targets. Currently, we are exploiting the genomes of *Mycobacterium tuberculosis* and *M. avium* subsp. *paratuberculosis*, the causative agents of human tuberculosis and animal Johne’s disease, respectively. We also utilize an array of cellular, biochemical and molecular techniques to determine the role of specific genes in bacterial survival once inside the host. In general, we are interested in developing novel approaches to investigate molecular mechanisms active during mycobacterial infections.

Research Interest at the University of Wisconsin-Madison.

Pan Genome Systems (PGS), utilizes proprietary genomic information to develop better diagnostics and vaccines that can serve both human and animal health. Our innovations target bacterial infectious diseases causing tuberculosis, Crohn’s disease in humans as well as Johne’s disease in animals (cattle, sheep, goats, camels). One third of the world population is already carrier of the tuberculosis pathogen (*M. tuberculosis*) with nearly 1.8 million deaths annually. In the USA alone, there are 1 million patients of Crohn’s disease that could be infected with *M. paratuberculosis*. In animals, infection with *M. paratuberculosis* (Johne’s disease) causes severe economic losses to the dairy and meat industries. Currently, these infections are difficult to diagnose in the host or to detect in infected tissues.

Dr. Tawfik Ayoub, M.D.

Vice President: 2009-2012

Secretary General: 2009-2012



Professor of Clinical Anesthesiology
Diplomat of the American Board of Anesthesiology
Keck School of Medicine
University of Southern California

Education:

School College Saint Marc, Alexandria – Egypt
School of Medicine, University of Alexandria – Egypt
Internship Alexandria University & Ministry of Health Hospitals
The Union Memorial Hospital, Baltimore, Maryland - USA (Surgical Internship)

Residencies, AI – Moassat Hospital (Anesthesia & Intensive Care)
Los Angeles County – University of Southern California Medical Center, Los Angeles, California – USA (Anesthesiology)
Fellowship, Los Angeles County – University of Southern California Medical Center, Los Angeles, California – USA (Cardiothoracic Anesthesia)
Board Certification, American Board of Anesthesiology

Professional Activities:

Lectures in Cardiac & Liver transplant anesthesiology
Clinical anesthesiology to anesthesia residents
Liver transplant anesthesiology
Cardiac Anesthesiology to senior residents & Cardiac Fellows
Clinical Cardiothoracic Anesthesia
Clinical Liver Transplant Anesthesia
Lectures and workshop in difficult airway management
Workshops in invasive lines placement

Society Memberships:

California Society of Anesthesiologists (Delegate to district three)
American Society of Anesthesiologists
Society of Cardiovascular Anesthesiologists
Association of Egyptian American Scholars (Vice-President)
Egyptian American Organization (Former Chair)
Egyptian Medical Syndicate

Research in progress and activities:

Cardiac anesthesiology & Liver transplant anesthesiology
Hemodynamically unstable patients

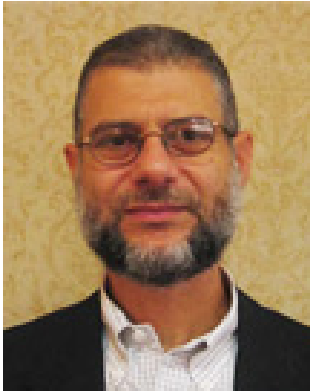
Editorial:

International advisory board: Journal of Advanced research. Elsevier
Reviewer: The Journal of Critical Care. Elsevier

Dr. Aly Mansour

Vice President: 2009-2012

Secretary General: 2009-2012



Dr. Aly Mansour is The Management Program Coordinator in the College of Business and Economics at the American University of Kuwait.

In 1975, graduated from the Department of Physics, specializing in Electronics Engineering from the American University in Cairo. Obtained a Masters Degree in 1983 from George Washington University specializing in Operation Research in Engineering. He also obtained a Ph.D. in Higher Education Administration from George Washington University in 1994.

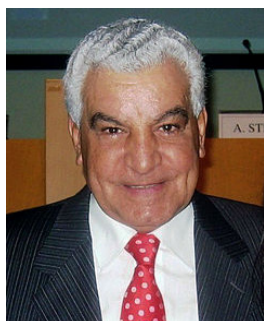
Dr. Mansour worked as a Diplomat in the Egyptian Ministry of Foreign Affairs until 1996. He taught at many universities including George Washington University, Dominion University, University of the District of Colombia and Bowie State University Campus in Maryland. His teaching interests included Computer Sciences, Electrical Engineering and Management Studies.

Dr. Mansour has participated actively in the AEAS affairs since 2004 and made presentations in all of its conferences. He represented AEAS in different activities including the Higher Education Enhancement Funds assessment team for the Clinical Skill Lab at the Medical School in the Suez Canal University. Also in Suez Canal University collaborated with the Faculty of Agriculture on a research on the Environmental Protection in the Arab World in cooperation with the Arab League. He also participated in the coordinated project with the National Authority for Accreditation in Higher Education. He was also leading the AEAS team in the review and the redevelopment of the Commerce Sector in Egyptian Universities collaborating with the Supreme Council of Universities..

His current research interests are in the areas of Bank owned projects in the Arab world referencing the Bank Misr and the Talaat Harb experience.

Scholar of the Year Awards Recipients

2000	Dr. ZahiHawass
2001	Dr. Ahmed Zewail
2002	Dr. Mostafa El Helaly
2004	Dr. Isis Ghaly
2006	Dr. Gala Abd El Hameed
2008	Dr. Hany El Nazer
2010	Dr. HindHanafy
2011	Dr. Tarek Khalil
2012	Dr. EssamSharaf



2000 Recipient: ZahiHawass is an Egyptian Archaeologist, Egyptologist and former Minister of State for Antiquities Affairs. Hawass has received widespread publicity and was subject of an American reality television series, Chasing Mummies. In 200, Dr. Hawass was named distinguished scholar of the year by the AEAS. After 1988 Hawass taught Egyptian archaeology, history and culture, mostly at the American University in Cairo and the University of California, Los Angeles. In 1993 he left his position as Chief Inspector of the Giza Pyramid Plateau.



2001 Recipient: Dr. AhmedZewail is an Egyptian-American scientist, known as the “father of femtochemistry”. He won the 1999 Nobel Prize in Chemistry for his work on femtochemistry. He is the Linus Pauling Chair Professor Chemistry and Professor of Physics at the California Institute of Technology. After some post doctorate work at UC-Berkeley, he was awarded a faculty appointment



at Caltech in 1976, where he has remained since, and in 1990, he was made the first Linus Pauling Chair in Chemical Physics.

He became a naturalized citizen of the United States in 1982.

Dr. Zewail has been nominated and will participate in President Barack Obama's Presidential Council of Advisors on Science and Technology (PCAST), an advisory group of the nation's leading scientists and engineers to advise the President and Vice President and formulate policy in the areas of science, technology, and innovation.

Zewail was awarded an honorary doctorate by Lund University in Sweden in May 2003 and is a member of the Royal Swedish Academy of



Sciences. Cambridge University awarded him an honorary Doctor of Science in 2006. In May 2008, Zewail received an honorary doctorate from Complutense University of Madrid. In February, 2009, Zewail was awarded an honorary doctorate in arts and sciences by the University of Jordan. In May 2010, he received a Doctor of Humane Letters from Southwestern University.

2010 Recipient: Dr. Hind Hanafy graduated from the Faculty of Medicine in 1975. She started her career as a resident of Pediatrics in 1977 and assistant lecturer in 1980. She reached the position of Professor of Pediatrics in 1995 and established the first Pediatric Gastrointestinal Endoscopy Unit in Alexandria Faculty of Medicine in 1992. Dr. Hind was appointed as Director of Medical Education Development Center in 2003 and as Vice Dean for Graduate Studies and Research in 2004 until 2006 when she was assigned to be Vice President of Alexandria University for Graduate Studies and Research for three years until she attained her present position as President of Alexandria University.

Prof. Hind Hanafy is the first woman in Egypt to be a president of University. She is a member of several Euro-Mediterranean networks, UNIMED, EPUF and a member of the Senate Committee of Euro-Mediterranean University (EMUNI). Dr. Hind was elected as President of Francophone Middle Eastern Universities related to Agence Universitaire de la Francophonie (AUF) in 2009.



2011 Recipient: Dr. Tarek Khalil is a Professor of Management of Technology. He has held the rank of tenured professor of Industrial Engineering at the University of Miami since 1977. He also held a secondary appointment at the rank of professor in the Department of Biomedical Engineering, Professor of Epidemiology and Public Health and Professor in the Department of Neurological Surgery at the University of Miami. Dr. Khalil received his Ph.D. in Industrial Engineering from Texas Tech University in 1969.

He holds a Bachelor degree in Mechanical Engineering from the University of Cairo and a Master of Science in Industrial Engineering from Texas Tech University. Dr. Khalil is a registered Professional Engineer in the State of Florida as well as in the Syndicate of Engineers in Egypt. He has been involved with the higher education system in the USA for 40 years.



2012 Recipient: Dr. Essam Sharaf is an Egyptian academic who was the Prime Minister of Egypt from 3 March 2011 to 21 November 2011. He served as Minister of Transportation from 2004 to 2005.

Sharaf was born in the Egyptian city of Giza in 1952.[1] After receiving his B.Sc. in civil engineering from Cairo University in 1975, he went to Purdue University where he continued his studies, receiving his M.Sc. Engg in 1980 and his Ph.D. in 1984. Sharaf took a post as a visiting assistant professor at Purdue in 1984 before becoming assistant professor of Highway and Traffic Engineering at the University of Cairo the following year. In 1990, he was an assistant professor in Civil Engineering at King Saud University in Saudi Arabia. He returned to the University of Cairo in 1991, becoming a professor of Highway Engineering in 1996 while working as senior advisor for the Transportation & Aviation department in Zuhair Fayed Partnership

(ZFP) in Jeddah, Saudi Arabia. Dr. Sharaf was the senior adviser to the Egyptian Minister of Transport in 1999 and the Senior Technical Adviser to the municipality of Al Ain in the UAE in 2003.

He served as Egyptian Minister of Transportation from July 13, 2004 to December 31, 2005, when he resigned. Dr. Sharaf returned to academia, accepting a post at Cairo University, where he remained a vocal critic of the Mubarak regime, particularly with respect to its handling of Egypt's public transportation infrastructure. During this time he also served as an advisor to Dubai's Roads and Transport Authority, and established the Egypt Scientific Age Society.

Major Initiatives and Collaborations by AEAS

ممر التنمية

فارق الباز

لقد أثبت التاريخ أن ازدهار الحضارة يتطلب ثلاثة مقومات: (١) إنتاج فائض من الغذاء يجعل الناس تنمو أجسادهم قوية ومخيلاتهم حسيحة. (٢) تقسيم العمل بين أفراد المجتمع وترقية أهل الخبرة والمعرفة وحسن الإدارة (وليس أهل الثقة) على جميع المستويات. (٣) تأهيل الحياه الكريمة في المدن لكي لا ينشغل الناس بالبحث عن قوتهم ويعيشون في بيئة صالحة تمكن البعض منهم الابداع والابتكار في عملهم. والإبداع في العمل هو أهم مقومات الحضارة والرقى.

يؤهل ممر التنمية، إضافة إلى تسهيل النقل بين أطراف الدولة، الحد من التوسع العمراني في وادي النيل والدلتا و يفتح آفاقاً جديدة للنمو بالقرب من التجمعات السكانية الكبرى استصلاح أراض صحراوية وإنشاء مشاريع جديدة في مجالات الصناعة والتجارة والسياحة. كما يُعطي المقترح أملاً جديداً لأجيال المستقبل باستخدام أحد عناصر الثروة الطبيعية وأقربها إلى التجمعات السكانية الحالية وهو الشريط المتاخم لوادي النيل في الصحراء الغربية.

لقد أُختير موقع الممر في الشريط المتاخم لوادي النيل من هضبة مستوية بميل بسيط من الجنوب إلى الشمال بموازية النيل والدلتا. ولا تقطع المنطقة أودية تهددها السيول كما هو الحال في شرق النيل. كذلك تتواجد مساحات شاسعة من الأراضي التي تصلح للزراعة شرق الممر تحت الهضبة (كما توضح الخريطة المرفقة) وبها احتمالات تواجد المياه الجوفية. هذا الشريط بالذات تقل فيه الرمال ولا تتقاطع معه خطوط الكثبان الرملية. وكما هو الحال في باقي الصحراء الغربية تشتد أشعة الشمس والرياح مما يسمح باستخدام هذه المصادر للطاقة المتجددة في المستقبل.

يتضمن مقترح ممر التعمير إنشاء ما يلي: (١) طريق رئيسي للسير السريع بالمواصفات العالمية يبدأ من غرب الإسكندرية حتى حدود مصر الجنوبية بطول ١٢٠٠ كيلومتر تقريباً. (٢) اثني عشر فرعاً من الطرق العرضية التي تربط الطريق الرئيسي بمراكز التجمع السكاني على طول

مساره بطول كلي حوالي ٨٠٠ كيلومتر. (٣) شريط سكة حديد للنقل السريع بموازية الطريق الرئيسي. (٤) أنبوب ماء من بحيرة ناصر جنوباً وحتى نهاية الطريق لاستخدام الإنسان.

توضح الخريطة الجيولوجية الرسمية لمصر كما تبين الصورة المرفقة أن الأراضي النيلية القديمة على طول الممر تعتلي ٦٤٠ ألف فدان. كذلك توضح صور الفضاء أن المساحات من الأراضي المغطاة بالتربة وبعضها مستوى تماماً تزيد عن ١٠ ملايين ونصف المليون فدان. هذه المساحة مقترحة للتوسع في الاعمار والتنمية بكل أنواعها وإذا ما أمكن استصلاح ٥٪ فقط منها فهي تصل إلي ٥٢٠ ألف فدان (وغالبا ما يمكن زراعة ٢٠٪ من مساحتها الكلية أي أكثر من ٢ مليون فدان). معني هذا أن الأرض النيلية القديمة مع ٥٪ من الأراضي المستوية المتاخمة لها تصل إلي مليون ومائة وستون ألف فدان وهذا هو الغرض الأساسي من مقترح ممر التنمية اضافة الى رقاء النقل في مصر الى مستوى يسمح بالتنمية الشاملة.

هذا الممر مهم جدا لسببين الأول تبعاً لوزارة الزراعة هو أن التعدي علي الأراضي الخصبة في وادي النيل والدلتا يساوي ٣٠,٠٠٠ فدان سنوياً وهذا يعني أنه إذا استمر الوضع الحالي علي ما هو عليه فسوف تختفي الأراضي الخصبة بعد ١٨٣ سنة. والسبب الثاني هو أن الإحصائيات تؤكد أن تعداد السكان الحالي وهو ٨٠ مليون نسمة سوف يزداد إلي عام ٢٠٥٠ ليصل ١٤٠ مليون نسمة أي إضافة ٦٠ مليون فرد علي التعداد الحالي. لذلك يلزم من الآن أن نفسح الطريق للحد من التعدي علي الأراضي الخصبة وفتح مساحات جديدة لمعيشة الأجيال القادمة وهذا هو ما يؤهله ممر التنمية.

لذلك فإنني أقترح إقامة مؤسسة وطنية من المجتمع المدني لدعم العمل وتحقيق أهداف مشروع «ممر التنمية». تمثل هذه الخطوة تعزيز المقترح لكي ينمو كمشروع يشارك القوم في كل مراحل ضمان نجاحه في تحقيق القسط الأكبر من الصالح العام للغالبية العظمى من شعب مصر. تجمع المؤسسة تحت إطار قانوني محكم المشاركات من الناس كل بمقدرته من جنيته واحد إلى مئات الآلاف. بعد أن تتحدد معالم المشاركة الفعالة للقطاع الخاص المحلي تبعاً لمبادراته وآماله وإمكانياته، يلزم فتح باب المقترحات للإستثمار العربي. إضافة إلى الإستثمار المصري أولاً والعربي ثانياً يمكن دعوة الإستثمار العالمي للمشاركة. يسهل ذلك الإتفاق مع المؤسسات العالمية التي تدعم البنية التحتية للمشروعات التنموية مثل البنك الدولي والبنوك العالمية. عند إكمال البنية التحتية للمشروع وبدء العمل التنموي يتم حتما القيام بإنجازات أخرى من فكر الجيل الصاعد المؤهل للأبداع. إكمال هذا المشروع يؤهل لكل مصري أن يشارك في العمل لكي يزدهر الوطن ويرتفع شأنه كمنارة مضيئة للإنسانية جمعاء.

RESEARCH COLLABORATION WITH COLLEAGUES IN EGYPT

Farouk El-Baz

“I have come here to seek a new beginning between the United States and Muslims around the world... we have a responsibility to join together on behalf of the world we seek.”

With this speech in June 2009 at Cairo University, President Barack Obama outlined a new program to promote U.S. cooperation in science and technology initiatives with counterparts in our part of the world. He was well aware that most of the Arab countries are in need of the economic development that would result from improvements in their S&T sectors.

President Obama followed his speech by appointing three “Science Envoys”, including: Bruce Alberts, former president of the U.S. National Academy of Sciences (and current Editor-in-Chief of Science); our own Ahmed Zewail, Nobel Laureate and professor at the California Institute of Technology; and Elias Zerhouni of Algeria, former director of the U.S. National Institutes of Health. Three other Science Envoys followed and more appointments are expected. However, this promising initiative will require long-term institutional support and, most importantly, committed individual initiatives.

The potential sources of funding are numerous, both in Egypt and the U.S. The Academy of Scientific Research and Technology has several avenues of supporting collaborative research. Similarly, NSF, U.S. AID and the State Department may also have programs for this purpose.

President Obama knows that research collaboration wins friends. However, real cooperation needs to be strategic and long-term. Furthermore, such efforts need to involve many different stakeholders, especially researchers on both sides of the ocean. No country needs a dedicated effort in this regard more than Egypt, particularly because the history of our S&T cooperation with colleagues in Egypt has proven to be both viable and rewarding.

I was involved in the geological aspects of the Apollo missions to the Moon from 1967 to 1972. Shortly thereafter I became responsible for photography on the Apollo Soyuz Test Project, the first joint American-Soviet space mission of July 1975. Like other Egyptian scientists I was then invited by President Anwar Sadat to participate in research in Egypt. My first was a joint project with counterparts at both Ain Shams

University and the Egyptian Geological Survey. The research resulted in mapping all of the oases depressions and sand dune fields in the Western Desert and defining regions amenable for land reclamation using local groundwater resources.

The second project was initiated in 1992 and was entitled “Groundwater Potential of the Sinai Peninsula, Egypt”. It was jointly conducted by the Desert Research Center (DRI) and my team at the Boston University Center for Remote Sensing. A book was published by the DRI and is finally being utilized in the location of sites for agricultural development in the region.

As I look back today, I believe that these two projects were the most significant of my career. It sure is satisfying to realize that research with colleagues in Egypt has resulted in tangible benefits to the country as a whole. Just as important is the knowledge that scores of graduate students have received either MS or PhD degrees based on work during those projects. The tangible benefit to the new generation of Egyptian researchers is particularly important. Based on firsthand knowledge of the benefits to both the U.S. and Egypt, to the participating researchers, and the potential beneficiaries in Egypt, I strongly recommend that each one of us would initiate appropriate research projects. This would materialize the vision of U.S. President and satisfy the expectations of the people of Egypt, especially after the January 25th revolution. Egypt calls upon us to help; we must answer the call.

ANSARA HOLDING CORPORATION, INC.

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Ansara Holding Corporation, Inc. dbaRegencyHolding was founded and incorporated in the State of Florida in 2001 by Dr. Ashraf A. Ansara. The headquarters are located in Altamonte Springs, Florida. Regency Holding strength in strategic business planning and implementation of business vision for healthcare related real estate and biotechnology start-up companies

Regency Holding through subsidiaries has been involved in the following areas:

1. Commercial real-estate development as Ansara Heathrow Development
2. Healthcare facilities development as Rinehard Lake Mary Surgical center
3. Pharmaceutical clinical trials contracted with Takeda, BioStratum, Bristol-Myers Squib, etc.
4. Medical office and healthcare facilities as Altamonte & Ansara Medical Centers
5. Joint ventures partner in the area of advanced biotechnology as Paradigm Spine, Inc.

INTERNATIONAL QUALIFICATIONS: Regency has had tremendous business experiences in Egypt, Iraq, Saudi Arabia, Bahrain, Kuwait, Dubai and Morocco. The first debt-equity swap in Egypt between the Egyptian Government, Rothschild Bank of France, Bank Misr of Egypt and Bank of America of the United States was organized and implemented under the guidance of Dr. Ansara in 1990. The proceeds was used to finance the equity for Bio-Vet Veterinary Vaccine and Biological Company in Egypt. Additionally, Regency was a key member of the business team was organized by the Arab American Chamber of Commerce and the City of Miami to prepare for the historical signing of the Free Trade Agreement between the United States and Morocco under the guidance of HE Donald Evans Secretary of Commerce in 2002.

Real-estate Development Qualifications: In the real-estate, Regency Holding is Registered Real Estate Broker with the Department of Business and Professional Regulations, State of Florida Broker License # BK684774. The Company has participated as a major shareholder in over \$50 million worth of projects in the last ten years. The company has completed over 250,000 square feet of development in the State of Florida. The Company has completed Rinehart Lake Mary Professional Center, LLC (43,000 SF) that contains, Lake Mary Ambulatory Surgical Center and Endoscopy Center (12,000 SF), full service Imaging Center and multi healthcare physician offices facilities that includes Gastroenterology , Primary Care and Internal Medicine, Dental office and Hematology & Oncology Center. Please review our website.

Regency Holding has worked with the most outstanding General Construction Companies such as Brasfield&Gorrie, Mapp Construction, The Douglas Construction; Architecture and engineering firms such: as Burke Hogue & Mills, Cohasi and Peterson, Zoser Design Build, Klima Weeks, Brady Architecture Firm, Nodarse Geotechnical Engineering firm and other. Furthermore, Regency Holding is involved with other joint venture partners in the health care development and investment in the United States and overseas.

Biotechnology Joint Ventures: Regency Holding is co-founder and shareholder of Paradigm Spine Corporation specializing in the development of certain devices to improve spine motion for human patients. www.paradigm-spine.com

Assisted Living Facilities for Alzheimer and Parkinson Patients: Two Locations

1. Lena Center for Living: 95 Beds facility under construction at 106 Boston, Altamonte Springs, Florida
2. San Marcos Terrace Rehabilitation & Care: 86 Beds facility located in San Augustine, Florida

*Conferences with National
Authority for Quality Assurance
and Accreditation in Education
(NAQAAE)*

Members and colleagues of the Association of Egyptian American Scholars have attended two conferences in January 2010 in Washington DC, USA and Montreal Canada with the National Authority for Quality Assurance and Accreditation in Education (NAQAAE). NAQAAE has been created by a presidential decree to oversee the Accreditation of Educational institutions in Egypt. NAQAA is aiming at engaging Egyptian professors in USA and Canada in the Accreditation process. 70 members and colleagues of AEAS have attended both meetings in Montréal and Washington.

Represented NAQAAE in this trip Dr. MagdyKassem, President of NAQAAE, Dr. Ashraf Barkawy, Vice President of NAQAAE, Dr. HamdyNassar, Vice President of NAQAAE and Dr. Mohamed Naguib Abou-Zeid, member in the NAQAAE Board.

In Washington the conference was coordinated with Dr. MahaKamel, the Director of the Egyptian Cultural and Educational Bureau. In addition to many members and colleagues who attended the event, also was in attendance Dr. Mohamed Attalla, President of AEAS, Dr. TawfikAyoub, Vice President of AEAS, Dr. Aly Mansour, Vice President of AEAS, Dr. Ibrahim Owees, Former AEAS President and one of the founders of AEAS and Dr. Salah Hasan , Former AEAS Vice President.

In Montréal, the conference was coordinated with Dr. NebalEltanbouly- the Cultural and Educational Consul. In addition to many AEAS members and colleagues the conference was attended by Dr. Mohamed Attalla, AEAS President and Dr. Wagueh El Maraghy, former AEAS, Vice President.

Also, in June 2010, NAQAA has organized a conference in Cairo and invited many of AEAS members and colleagues. Discussions have taken place about the potential cooperation with NAQAAE.



WASHINGTON- Dr. Mohamed Attalla, President of AEAS, Dr. TawfikAyoub, Vice President of AEAS, Dr. Aly Mansour, Vice President of AEAS, and Dr. Salah Hasan , Former AEAS Vice President, Dr. MahaKamel, the Director of the Egyptian Cultural and Educational Bureau, Dr. MagdyKassem, President of NAQAEE.



MONTREAL- Dr. Mohamed Attalla, President of AEAS, Dr. NebalEltanbouly- the Cultural and Educational Consul.Dr.HeshamMarzouk, Dr. AzzaHamed, Dr. Naser El Sheemy, and Dr. Ahmed Rabbany.

Engineering Sector Council Conference, Oct. 2009

Engineering Sector Council - Supreme Council of Universities, Ministry of Higher Education and Scientific Research

Report on the Workshop on the Future of Engineering Education in Egypt Oct. 26th, 2009 Represented by Dr. Mohamed Attalla, President of AEAS

The Engineering Sector Council has been working with all Engineering Schools in Egyptian Universities on the development and the enhancement of Engineering Education in Egypt. Many subcommittees have been established to investigate and examine certain aspects of Engineering Education. Some examples of these aspects include the development of the Fourth year in Engineering Education, the Evaluation of the different initiatives of new programs in engineering schools, the implementation of the credit hours system, Comparable studies between Engineering Education Systems in Egypt, Europe and North America, Engineering Education Accreditation, the roadmap for Engineering, Technological and technical Education, in addition to many other issues.



With the support of Dr. HanyHelal, Minister of Higher Education and Scientific Research, and Dr. Salwa El Ghareeb, Secretary General of the Supreme Council of Universities, members of the Association of Egyptian American Scholars (AEAS) worked with Dr. Mohamed Sheira, Chair of the Engineering Sector Committee and Dr. Mohamed Megahed

, Coordinator of the Engineering Sector Committee to establish sustainable mechanisms for collaboration between the Engineering Sector Council and the engineering members of the AEAS and to allow AEAS members to contribute the




development efforts that are being coordinated by Dr. Sheira and Dr. Megahed.

On Oct., 26th, 2009, the Engineering Sector Council has organized a conference to present the results of the current stage of the discussions. Dr. Mohamed Attalla, AEAS president was invited to present the developed mechanisms for collaboration with the engineering sector council as suggested by the AEAS members.

The conference was attended with a large number of authorities who are concerned with the future of engineering education including;

-  H.E. Dr. **HanyHelal**, Minister of Higher Education and Scientific Research
-  H.E. Dr. **Yossry El Gamal**, Minister of Education
-  H.E. Dr. **Ahmed Darweesh**, Minister of Administrative Development
-  Dr. **AmrEzzat Salam**, Former Minister of Higher Education and Scientific Research
-  Dr. **Mostafa El Demeery**, Former Minister of Transportation
-  Dr. **HosamKamel**, President of Cairo University
-  Dr. **Mahmoud El Tayeb**, President, Helwan University
-  Dr. **FawzyTurky**, Presedent, KafrElSheikh University
-  Dr. **Mohamed Sherief Omar**. Head of the Education and Scientific Research Committee, People's Assembly
-  Dr. **Mostafa El Demerdash**, Chairman of the Building and Housing Research Center
-  Dr. **MagdyQasem**, Head, of the National Committee for Quality and Accreditation
-  Dr. Galal Add El Hameed, Adviser, Minister of Higher Education, Strategic Planning
-  Dr. **Maged El Sherbeeney**, Deputy Minister, Scientific Research

Participated in the AEAS presentation:

-  Dr. Tarek M. Sobh,
Vice President for Graduate Studies and Research and Dean of the School of Engineering, University of Bridgeport, USA
-  Dr. Ahmed ElSawy,
Chair, Department of Manufacturing & Industrial Tech., Tennessee Technological University, USA
-  Dr. Adel M. Sharaf,
University of New Brunswick-Canada

- 🌐 Dr. Ahmed El-Rabbany,
Professor, Satellite Navigation and Hydrography, Ryerson University, Canada
- 🌐 Dr. **Ezz I. El-Masry**; Head Electrical & Computer Engineering Department,
Dalhousie University, Canada
- 🌐 Dr. **Naser El-Sheimy**, Professor and Canada Research Chair, Department of
Geomatics Engineering, The University of Calgary, Canada
- 🌐 Dr. **ElsayedOrady**, Professor and Coordinator of the Manufacturing
Engineering Program, The University of Michigan-Dearborn, USA
- 🌐 Dr. **Mohamed Hegab**, Professor of Civil Engineering, California State
University, USA
- 🌐 Dr. **Hassan Mohamed Nour**, Professor of Electrical Engineering, California
State University, USA
- 🌐 Dr. **Adel Elmaghraby**, Chair, Computer Engineering and Computer Science
University of Louisville
- 🌐 Dr. WaguihElMaraghy, Head, Department of Industrial and Manufacturing
Systems Engineering, University of Windsor, Canada
- 🌐 Dr. Mohamed El Bestawee, Vice President, Research and Innovation,
McMaster University, Canada
- 🌐 Dr. **Mohamed El Bestawee**, Vice President, Research and Innovation,
McMaster University, Canada
- 🌐 Dr. **AtefElSherbeni**, Electrical Engineering, University of Mississippi



Dr. Mohamed Sheira, Chair of the Engineering Sector Council

AEAS Annual Conferences

2004 Conference:



AEAS's 2004 conference took place on December 29th-20th, 2004 in Cairo, Egypt under the patronage of H.E. Prof. Dr. Amr Salama, Minister of Higher Education & Scientific Research, and H.E. Prof. Dr. Hany El-Nazer, President of the National Research Centre. The theme of the conference was the Role of Science and Technology in the Future of Egypt.

2006 Conference



The AEAS 2006 Conference was held in the National Research Centre in Cairo under the patronage of His Excellency Dr. HanyHelal, Minister of Higher Education, and His Excellency Dr. Hany El Nazer, President of the National Research Centre. The conference was concluded with a round table discussion with researchers in the center and AEAS members. A liaison

committee was formed in order to coordinate research activities and collaborative efforts with the center.

2007 Conference:



The 2007 AEAS North American Conference took place on December 14th-16th in Long Beach, California. The theme of the conference was Science and Technology and the Future of Egypt Building the Infrastructure and Creating Investment Opportunities. The conference touched on topics ranging from the basic natural and social science to applied fields in information technology, medicine, public health, and the environment. Scholars as well

as representatives of the public and private sectors in Canada and the United States were invited to participate.

2008 Conference:





The 2008 AEAS conference took place on December 28th-29th, 2008, in Cairo, Egypt. The theme of the conference was Co-operation between Egyptian Scholars and Scholars Abroad. The conference was held under the patronage of his Excellency Dr. HanyHelal, Minister of



Higher Education and Scientific Research and with the support and leadership of Dr. Salawa El Ghareeb, Secretary General of the Supreme Council of Universities. The conference sessions were hosted at the new facility of the Supreme Council of Universities on the Cairo University Campus. The opening ceremony was conducted in the Cairo University

large meeting Hall with the attendance of over 500 conference delegates and guests including leaders of Higher Education in Egypt, University Presidents and the heads research institutions. The opening ceremony has also featured three presentations for the development of The Engineering Sector, The Medical Sector and the Commerce Sector in Egyptian Universities together with the expected collaboration with the AEAS in this regard.

Supreme Council of Universities



Dr. Ashraf Hatem: Current Secretary General



Dr. Salwa El-Gharib: Former Secretary General



The Supreme Council of Universities established in 1950 to plan the university education policies, previously named the Advisory council for the universities. In 1954 the presidential decree no. (508) was issued to reorganize the universities and to establish a Supreme Council of Universities. Then a series of laws were issued to reorganize universities in several successive laws, most recently no. (49) for the year 1972.

Moreover, the Supreme Council of Universities is an authorized autonomous public body with the authority, responsible for planning, coordination and supervision of higher education in accordance with the Law No. (49) for the year 1972, and its amendments. It is presided by the Minister of Higher Education, directed by the Secretary General, and the membership of the Universities' Presidents and 5 experienced members in the higher education and public affairs.

Within the framework of the general trend of the state to enhance Higher Education & Research in Egypt to cope with the international educational systems, the Supreme Council of Universities is highly committed to developing the educational programs and systems using advanced technologies, applying the quality assurance and accreditation standards to introduce quality education and support the distance and e-learning programs. In addition to encouraging Egyptian Scientists abroad to

hold workshops, seminars, and conferences on the most advanced areas of researches to strengthen the academic collaborative channels and linkage with their peers in Egypt.

Thus in collaboration with the Association of Egyptian-American Scholars, the Supreme Council of Universities has contributed to offer a professional venue for scholars to share their research, as well as exchange experience and share knowledge in the diverse areas and an opportunity for all academics to hear about the latest activities and researches via conferences and the scientific papers' sessions.

It is a pleasure to have such collaboration that entirely aims to bridge borders and to encourage scientific research on both the national and international levels which is part of our commitment and to be an additional step to the ones that will contribute in the development of Higher Education & Research system in Egypt.

National Research Center



Dr. Ashraf Hamed Shaalan

President of National Research Centre



Education:

Graduated from faculty of Medicine, Ain Shams university (1983) and received his M.Sc. pediatrics (1987) and Ph.D. childhood studies (1993) from the same university .

Positions:

- 1- President, National Research Centre, Egypt (Nov. 2009).
- 2- Vice-president, Academy of Scientific Research and Technology, Egypt (Aug. 2008 – Nov. 2009).
- 3- Head of Medical Research Division, National Research Center, Egypt (Sept. 2004 – Jan 2009).
- 4- Head of Medical Services Unite, National Research Center, Egypt (April 2004 – Jan 2009).
- 5- Professor of Biological Anthropology, Biological Anthropology Dept., National Research Center, Egypt (Feb. 2004).

He has adopted management policy to encourage scientists which resulted to :

-  A significant increase in numbers and amounts of funding of research projects supported either by the government, local or international organizations . The average increase over the last three years amounts at 40% . These projects are mainly serving either the production and service sectors (Avian Enfluanza Vaccine, renewable energies) or the frontier sciences (Nano and Biotechnology).
-  Improvement quality and number of publications in international journals by 20 % annually, the majority are Scopus.

- 🌐 During years 2010,2011 about 23 patents have been registered at ASRT making the NRC on the top of the list of the Egyptian universities and research institutes .
- 🌐 NRC research staff was awarded a greater number of state prizes in different fields of science and technology and at different levels. NRC came at number one ranking relating to universities and other institutes .
- 🌐 NRC was awarded an appreciation prize from the ASRT as the best research centre in terms of registered patents on the national level
- 🌐 Encourage and facilitate NRC scholars and researchers to get funded from foreign affiliations
- 🌐 Scholarships and assistanceships in universities and different institutions in different foreign countries mainly in Europe and United States in general amount for 250 for the last three years. Encourage our research staff to collaborate with Egyptian expatriates to participate in joint research projects and to supervise M.Sc. or Ph.D. scholars.
- 🌐 Number of bilateral agreement was signed between NRC at Egypt and a number of foreign counterparts.
- 🌐 Within the framework of cooperation with international and national counterpart a number of seminars, workshops, conferences, training courses were organized.
- 🌐 Upgrading laboratory equipment is a major achievement within the capacity building policy of NRC over the last 3 years accounting about the double annually.
- 🌐 Funds allocated for infrastructure has increased significantly (300%)
- 🌐 Improvement of the managerial policy of NRC through :
 - Expansion of the central service labs.
 - Modernization of internal regulations
 - Internationalization of some local periodicals
 - Development of the units of special status
 - Incentives for the distinguished researchers

AEAS has also collaborated with Dr. Haney El Nazer, former President of NRC.

Suez Canal University, Faculty of Medicine



*Dr. Samaya Hosny, Dean,
Faculty of Medicine, Suez
Canal University*

- 🌐 Dean, Faculty of Medicine, Suez Canal University (FOM/SCU) from August 2010
- 🌐 Vice Dean of education and student affairs at FOM/SCU from Dec. 2003 to Dec 2009,
- 🌐 Director of the Center for Research and Development in Medical Education and Health Services, FOM/SCU, from 2001 to 2010
- 🌐 Chairman of Histology & Genetics Department, FOM/SCU from 2001 to 2010
- 🌐 Founder and coordinator of the “Clinical skills laboratory from 1981 to 2004
- 🌐 Has a Master Degree in Health Professions Education (MHPE) in 1987 from the University of Illinois, Chicago, USA.
- 🌐 Shared in the establishment of the Medical Education Department at Suez Canal University, Faculty of Medicine in 2001.
- 🌐 Shared in the establishment of the QAU at FOMSCU in 2004
- 🌐 Chairperson of the school self-studies in 2005 & 2009
- 🌐 Leader of FOM/SCU accreditation process and coordinator of the accreditation visit which resulted in obtaining the school the national accreditation by NAQAAE as the 1st accredited school in Egypt, in May 2010
- 🌐 Member of the national staff promotion committee of Histology from 2008 to 2010
- 🌐 Member of the steering group of Health Profession Global Network, WHO, Geneva (HPGN), 2009

- 🌐 Member of the executive committee of the Arab Deans of Medical Schools, 2010
- 🌐 WHO consultant in the field of Medical Education.
- 🌐 Member of the executive committee of the Association of Medical Education in the Eastern Mediterranean Region (AMEEMR), 2011
- 🌐 Principal investigator for several projects and referee and peer reviewer for many national & international activities
- 🌐 Coordinator of more than 50 national , regional & international workshops in the different fields of medical education, quality assurance and leadership
- 🌐 Planner of student assessment modules (distance learning) in the Master and diploma of HPE
- 🌐 Referee for the international journal «Education for Health « (change in health and practice, Taylor & Francis, health sciences) from 2000 till now.
- 🌐 Expert at the National Authority of Quality Assurance and Accreditation in Medical Education (NAQAAE)
- 🌐 National peer reviewer of higher education enhancement projects
- 🌐 Has national & international publications in the field of Histology and medical education

Historical Background

Faculty of Medicine, Suez Canal University (FOM/SCU) was established in 1978 as the first innovative medical school in Egypt. The establishment of the faculty was guided by the reform recommendations of the Fayoum symposium in 1978. The founders of the school conducted many meetings with all involved stakeholders till the institutional objectives were formulated later in 1978.

In 1979, FOM/SCU was one of the 10 founding schools of the Network of Community-Oriented Educational Institutions for Health Sciences, currently named Toward Unity for Health (TUFH).

The family medicine department was established in 1980, as the first department in Egypt of that kind, aiming at preparation of qualified physicians in primary health care. This department is offering academic degrees in Family Medicine (Diploma, Master and Doctorate degrees). To foster the work in this department, the faculty has established ten family medicine centers in Suez Canal area and Sinai to serve as training sites for undergraduate students and physicians pursuing post-graduate training in the department and also to offer health services to the local community.

In 1981, the faculty was inaugurated. It has started with an innovative curriculum, as well as with innovative educational and health care initiatives, which were unique in Egypt at that time. The school curriculum took into consideration the standards of the physicians' optimum performance, professional ethics and commitment to community needs, bio-psychosocial paradigm, as well as the explosion of information and principles of learning. The curriculum also emphasized the development of self learning skills,.

FOM/SCU has adopted several innovative strategies to achieve its goals, namely: community-Based Education (CBE), Problem-Based Learning (PBL), integration between basic & clinical sciences, student centered education and comprehensive evaluation.

At the end of the year of inauguration, the faculty has established the first clinical skills laboratory in Egypt, which aims at standardized training and evaluation of basic clinical skills, and promotion of humanistic attitudes in students' approach to patients.

In 1984, FOM/SCU began to address the problem of long-term sustainability of leadership needed for innovation. A conjoint committee was instituted between FOM/SCU and the center of education and development, now the medical education department at the University of Illinois at Chicago. The aim of the committee was to develop a master degree in health profession education leadership suitable for this innovation. Thirteen faculty members from FOM/SCU were enrolled in this master program, and obtained the degree in 1987.

FOM/SCU has graduated its first batch of students in 1987. The majority of these students were appointed as staff members in FOM/SCU. Currently, many of them are in Professors, assistant professors and lecturer's positions. Moreover, they constitute the main core of mid-level decision-makers and executives in the educational process.

In 1986, the center for research and development in medical education and health services was established and in 1988, it was declared as a WHO collaborating center in medical education and health research. Also in 1988, the school has established the Clinical Epidemiology Unit (CEU) to foster scientific research and its application to medical practice. The unit includes a number of faculty members who have got advanced training, both international and local, in research methods and medical statistics. The CEU is a member of the International Clinical Epidemiology Network (INCLIN). Its main mandate is to serve as a resource center in the areas of design, evaluation and critical appraisal of scientific research in health care.

In 1993, the school has inaugurated its University Hospital. The university hospitals provide many advanced services and facilities such as non-invasive cardiac lab, catheter lab, gastro-intestinal endoscopy and motility lab. They also

include specialized units for tertiary care asdialysis, cardiothoracic and pediatric surgery, surgical oncology, and other units besides the usual outpatient and inpatient facilities.

In 2001, a medical education department was established at FOM/SCU, the first in Egypt. It aims at preparing health profession educators capable of leading the profession into new directions, and capable of motivating their students and colleagues in guiding the future of health care delivery. In 2003, the Emergency department was established as the first one in Egypt at this time.

In 2010, Faculty of Medicine, Suez Canal University, was the first higher education institute, in Egypt, to get national accreditation from NAQAAE.

Role of FOM/SCU in spreading concepts of medical Education

The WHO collaborating center of research and development in medical education and health services (CRD) has a pioneering role in medical education in the areas of training, research and consultation. The center was re-designated for three consecutive times as a WHO collaborating center in 1995, 1999, 2003, and 2005 and lastly from 2010 to 2014. The center is conducting international workshops in the different fields of medical education and management and leadership, where many participants are attending from allover the world. Besides the international workshops, the center is conducting many national and local training workshops according to the medical education needs of the different medical schools in Egypt. Many workshops are also conducted by the FOM/SCU faculty members in different countries such as Bahrain, Qatar, Emirates, Saudi Arabia, Jordan, Syria, Iraq, Yemen, Sudan, Kenya, Ethiopia, Pakistan, India, Croatia, Thailand, etc...

The faculty's Medical education departments offers and awards, besides the regular Master and PhD degree, a joint Master degree in Medical education with Maastricht University. Hundreds of health professionals from different countries were graduated from this program. Tens of them are in leadership positions in their countries. This department also offers Diploma in Health profession education which graduated many health professionals from allover Egypt. Both of the Joint Master and the Diploma are conducted through distance learning.

FOM/SCU experience in Accreditation

The innovative approaches and strategies of FOM/SCU curriculum which were in perfect match with the national academic reference standards (NARS) of Medicine make it easier for FOM/SCU to begin preparing itself for the national accreditation. The quality assurance and accreditation project (QAAP) conducted by the school

beginning from 2004, helped the school to establish an updated database, conduct institutional self-study according to the World Federation of Medical Education (WFME) global standards in 2005, prepare an action plan based on the SWOT analysis of the self-study and to establish a management and monitoring system for an ongoing quality assurance.

In 2007, FOM/SCU was one of the first 6 institutes to get a fund from the Ministry of Higher Education (MOHE). With the sum of approximately 7.5 million Egyptian pounds (around 1.4 million dollars), the school upgraded the infrastructure of its facilities for teaching and research.

In 2009, FOM/SCU began the work to fulfill the standards of accreditation, set by National Authority of Quality Assurance and Accreditation in Education (NAQAAE). The administration of FOM/SCU nominated a board of 3 senior faculty members to lead the whole process of national accreditation. They started by assigning each standard to an ad-hoc committee of 8-12 faculty members. Each committee, chaired by a senior colleague, was responsible for reviewing the requirements of its related “Standard”, documenting the achievements of the school in this area, and proposing any required actions to satisfy this standard. In the meantime, another special committee was responsible for doing the 2009 self-study of the school according to NAQAAE standards.

On November 2009, FOM/SCU was the first higher education institute in Egypt to submit a request to NAQAAE to organize a site visit for accreditation. That was about 6 months earlier than the tentative date in the original project.

In March 2010, a team of 6 reviewers, including one professor from United Kingdom, visited FOM/SCU for 4 days. They reviewed all the documents, held meetings, and interviews with over 400 faculty members, medical students, graduate students, administrators, and community representatives. They also conduct observations and made visits for all the school buildings.

In May, 2010, FOM/SCU became the first higher education institute, in Egypt, to get national accreditation from NAQAAE.

of Artificial Organs (ISAO) and the Middle East Society for Organ Transplantation (MESOT), Secretary General and chairman of the Nominating, Fellowship, Sister Renal Centers, Clinical Practice Guidelines, Publications and Tropical Nephrology Committees of the International Society of Nephrology (ISN).

Medical Sector Committee

Professor Barsoum is the fourth in the sequence of Medical Sector Committee chairs since its launch. This committee is the medical education advisory body of the Supreme Council of Egyptian Universities. It is composed of two wings: a Planning Committee concerned with strategic issues, and an Executive Board concerned with implementation logistics. The former is composed of 7 highly credible university professors, a distinguished lecturer and representatives of the Ministry of Health, Military Medical Academy and the Medical Syndicate. Each wing meets once a month, and they meet together three or four times a year, often in the form of 2-3 day-retreats.

Over the past 5 years, the Sector Committee has upgraded the reference standards for medical schools and university hospitals, developed graduate academic and training standards, introduced modern concepts in teaching, training and assessment and resolved interdisciplinary conflicts. Its two major innovations are the national postgraduate qualification and medical research reform, both of which were the main areas of interaction with the AEAS.

The Association of Egyptian-American Scholars

Although the efforts of AEAS in upgrading science and technology in Egypt have been remarkable since 1974, its close collaboration with the Medical Sector Committee started fairly recently, the catalyst being HE Professor Hani Helal, then Minister of High Education in Egypt. During its 37th Annual Conference held in Cairo on the 28th December 2008, the Medical Sector preliminary plans for postgraduate qualification reform were announced for the first time. It was agreed to join forces in developing and optimizing these plans through joint input, e-mail correspondence and physical meetings. The Liaison officers were Dr. Amer Elahraf and Dr. Tawfik Ayoub from the AEAS and Dr. Rashad Barsoum on behalf of the Medical Sector Committee. Several physical meetings took place in between these representatives in Cairo and Los Angeles, which fostered the development of the final reform plans.

When the Medical Sector Committee approved the pre-final draft of the reform, it was submitted to the AEAS requesting feedback. Dr. Ayoub developed an adhoc committee for this purpose, and came up with a comprehensive report that was submitted in July 2009. This became a main item on the agenda of Sector Committee retreat in Alexandria a few weeks later, and was integrated in the final project that was officially ratified in March 2010. A steering committee was ordered by a Ministerial decree to overlook implementation

Meet AEAS Members

Dr. Farouk El-Baz



Education:

Ain Shams University, Cairo, Egypt,
1954-1958: B.Sc., Chemistry & Geology
Missouri School of Mines & Metallurgy, 1960-
1961: M.S., Geology
University of Missouri-Rolla, 1961-1964 (1962-
1963 at M.I.T.): Ph.D., Geology

Employment History:

1986-Present: Research Professor and Director, Center
for Remote Sensing, Boston University.



**Dr. Farouk El Baz with Dr. Mohamed Attalla
in his office at the University of Boston**

1982-1986: Vice President for Science
and Technology, Itek Optical Systems,
Lexington, MA

1973-1982: Research Director, Center
for Earth and Planetary Studies, National
Air and Space Museum, Smithsonian
Institution, Washington DC

1967-1973: Supervisor, Lunar Science
Planning and Lunar Exploration for
Bellcomm Inc., at NASA Headquarters in
Washington DC

1964-1965: Teaching Assistant, Institute of Mineralogy and Petrography
University of Heidelberg, Heidelberg, Germany

Research Interests:

He is a geologist and a renowned pioneer in the applications of satellite image data to the study of the earth. He has applied analysis of satellite images and geographic information systems to the fields of geology, geography, and archaeology. His present research is in the applications of data from space to the exploration for groundwater resources in desert areas. He emphasized the deserts of Egypt, but studied the rest of the Sahara and the Arabian Peninsula. He also conducted field work in deserts of India and China.

Dr. Mohamed Elbestawi



Dr. Mohamed Elbestawi was reappointed for his second five-year term as McMaster's Vice-President, Research & International Affairs.

He is responsible for all research activities within the University and for the aggressive pursuit of new partnerships – including technology transfer and economic development opportunities – locally, nationally and internationally. His mandate is to capitalize on McMaster's significant strengths as a research enterprise.

Dr. Elbestawi has held a number of instrumental research and administrative roles since first coming to McMaster University as a teaching assistant in 1974, including Chair of Mechanical Engineering, Director of the McMaster Manufacturing Research Institute, and Dean of Engineering. He held an NSERC Industrial Research Chair in Precision Machining and the Braley-Orlick Chair in Advanced Manufacturing Engineering. During a stint in industry, Dr. Elbestawi served as head of the structural dynamics unit at Ontario Hydro Research Division. He is known worldwide for his research in the areas of machine tools, metal cutting and computer aided manufacturing, publishing more than 250 research papers.

His awards include: the Faculty of Engineering Research Achievement Award (2012), The Hamilton Spectator Publisher's Award for Education (2004); Synergy Award - NSERC and Conference Board of Canada (2003) as well as two McMaster Students Union awards for Teaching Excellence. He is a Fellow of the Canadian Academy of Engineering; the International Academy for Production Engineering (CIRP); the American Society of Mechanical Engineers (ASME); the Canadian Society for Mechanical Engineering (CSME), as well as a Member of the Association of Professional Engineers of Ontario.

Dr. Elbestawi received his B.Sc. from the University of Alexandria and his M.Eng. and PhD degrees from McMaster University.

Dr. Naser El-Sheimy



Dr. Naser El-Sheimy is Professor at Department of Geomatics Engineering, at the University of Calgary. He holds a Canada Research Chair (CRC) in Mobile Multi-sensor Systems and the scientific director of Tecterra Research Centre. He is also the CEO of Trusted Positioning Inc. (TPI), a spin off from the University of Calgary. His research expertise includes GPS/INS integration, multi-sensor systems, and mobile mapping systems. Prior to joining the University of Calgary, Dr. El-Sheimy held the position of VP R&D with VISAT Technologies Inc., a high-tech company in Montreal.

Dr. El-Sheimy published two books and over 350 papers in academic journals, conference and workshop proceedings, in which he has received over 30 national and international paper awards. He organized and participated in organizing many national and international conferences. Dr. El-Sheimy is the president of Commission I on “Sensors and Platforms” of the International Society for Photogrammetry and Remote Sensing (ISPRS). Dr. El-Sheimy is currently a member of the Editorial Board of Journal of Survey Review, Journal of Applied Geodesy, and Coordinates. He served as a member of the Alberta Geomatics Group Board of Directors, Geoide NCE Board of Directors, Technical Committee Member of the ASPRS Direct Georeferencing Committee, regular reviewer for the Journal of Geodesy, Journal of Photogrammetric Record, the Photogrammetric Engineering and Remote Sensing Journal and other scientific journals.

Dr. Hussein T. Mouftah



Born in Alexandria, Egypt in 1947; Professor Hussein Mouftah received his BSc and MSc from Alexandria University, Egypt, in 1969 and 1972 respectively, and his PhD from Laval University, Quebec, Canada in 1975. He joined the School of Information Technology and Engineering (now School of Electrical Engineering and Computer Science) of the University of Ottawa in 2002 as a Tier 1 Canada Research Chair Professor, where he became a Distinguished University Professor in 2006. He has been with the ECE Dept. at Queen's University (1979-2002), where he was prior to his departure a Full Professor and the Department Associate Head.

He has six years of industrial experience mainly at Bell Northern Research of Ottawa (then known as Nortel Networks).

He served as Editor-in-Chief of the IEEE Communications Magazine (1995-97) and IEEE ComSoc Director of Magazines (1998-99), Chair of the Awards Committee (2002-03), Director of Education (2006-07), and Member of the Board of Governors (1997-99 and 2006-07). He has been a Distinguished Speaker of the IEEE Communications Society (2000-2007). He is the author or coauthor of 8 books, 53 book chapters and more than 1200 technical papers, 12 patents and 140 industrial reports. He is the joint holder of 14 Best Paper and/or Outstanding Paper Awards. He has received research grants and contracts totaling close to \$50 million and he has supervised more than 300 highly qualified personnel of which 95 are Master's and 65 are PhD graduates and 30 are post-doctoral fellows.

He has received numerous prestigious awards, such as the 2007 Royal Society of Canada Thomas W. Eadie Medal, the 2007-2008 University of Ottawa Award for Excellence in Research, the 2008 ORION Leadership Award of Merit, the 2006 IEEE Canada McNaughton Gold Medal, the 2006 EIC Julian Smith Medal, the 2004 IEEE ComSoc Edwin Howard Armstrong Achievement Award, the 2004 George S. Glinski Award for Excellence in Research of the U of O Faculty of Engineering, the 1989 Engineering Medal for Research and Development of the Association of Professional Engineers of Ontario (PEO), and the Ontario Distinguished Researcher Award of the Ontario Innovation Trust. Dr. Mouftah is a Fellow of the IEEE (1990),

the Canadian Academy of Engineering (2003), the Engineering Institute of Canada (2005) and the Royal Society of Canada RSC Academy of Science (2008).

Major collaborations in Egypt:

- Successfully completed 3 Co-Channel supervisions in Egypt: 2 at Helwan University (1991 and 1997) and 1 at Tanta University (2010).
- Successfully completed a United Nations TOKTEN program at the National Institute of Telecommunications, Cairo, and the Centre of Research and Development for Electronic Industries (1986).
- Addressed the Supreme Council of Universities in Cairo on The University of Ottawa ScoreCard - An Academic Strategic Planning Assessment Tool (December 2010).
- Provided several lectures at several Egyptian universities on the latest advancements in Wireless Sensor Networks and their application in sustainable energy, smart grid, telemedicine, Intelligent Transportation System, smart cities, and the Internet of Things.

Dr. Salwa Ahmed Elgebaly



Education:

1979: Ph.D.in Medicinal Chemistry(Oncology)

University of North Carolina, Chapel Hill School of Pharmacy Department of Medicinal Chemistry
Chapel Hill, North Carolina

1975: MSc in Oncology

University of Wisconsin, Madison School of Medicine,
Oncology Department Madison, Wisconsin

1973: B.Sc.in Pharmacy with Honors

University of Alexandria, Alexandria School of Pharmacy, Alexandria, Egypt

Appointments:

2007- 2012: Adjunct Assistant Professor

United States Naval Academy, Annapolis, Maryland

- 2003-2006:** **Director, Nourin Preclinical and Clinical Development Program**
Inverness Medical Innovations, Boston, MA
- 2002-2003:** **Director, Clinical Affairs AnGes, Inc.,**
9210 Corporate Boulevard, Suite 130, Rockville, MD 20850
- 2000-2002:** **Director, Clinical Trials & Research**
Connecticut Multispecialty Group, Hartford, CT
- 1998-2000:** **Director, Clinical Trials & Research**
Grove Hill Medical Center, 300 Kensington Ave, New Britain,
CT
- 1992-1995:** **Associate Professor**
Department of Surgery, University of Connecticut School of Medi-
cine and Hartford Hospital and Farmington, CT 06030
- 1987-1988:** **Director,** Surgical Research Center Department of Surgery, Univer-
sity of Connecticut School of Medicine, Farmington, CT 06030
- 1986-1991:** **Assistant Professor**
Department of Surgery, University of Connecticut School of Medi-
cine, Farmington, CT 06030
- 1981-1985:** **Instructor**
Department of Surgery, University of Connecticut School of
Medicine, Farmington, CT 06030

Dr. Hossin Abdeldayen



Degrees:

1986-1990: Ph.D., Alabama A&M University (Applied Physics-Lasers)

1978-1981: M.A., City University of N.Y. (Physics)

1973-1978: M.Sc., Ain-Shams University, Cairo, Egypt (Physics)

1969-1973: B.Sc., Ain-Shams University, Cairo, Egypt (Physics)

Professional Employment:

2001-Present: Civil Servant at NASA-GSFC.

1995-2001: Universities Space Research Association, NASA-MSFC.

1992-1995: National Research Council, NASA-MSFC.

1991-1992: Research Faculty, Alabama A&M University.

1987-1990: Research Assistant(work Study), Alabama A&M Univ.

1983-1987: Faculty, Southern University, Baton Rouge, Louisiana.


1981-1983: Teaching Assistant(work study), LSU., Baton Rouge.

1977-1981: Teaching and Research Assistant(work study), City University of N.Y.

1973-1977: Adjunct Lecturer, Ain-Shams Univ., Cairo, Egypt.

Patents:

 U.S. patent No. 6,153,682

 Provisional Patent (Novel Laser) NASA

 Three disclosed patents

Research Funding/Support:

 More than \$2 million of research funding from NASA, U.S. Army, and US Missile Command

Honours:

 USA-National Research Council Award (1992-1995)

 Project Scientist, NASA-space flight experiment

- 🌐 Department of Energy Fellowship, 1989
- 🌐 Grade Point Average of 4.0/4.0 at the Graduate School
- 🌐 A graduate with a “Distinction» in physics in undergraduate school, Ain Shams University
- 🌐 Honorary College List
- 🌐 Teaching performance award from Southern University, Baton Rouge, Louisiana
- 🌐 Several NASA-Performance Awards

Collaborations with Egypt:

Reviewed and evaluated several scientific and technical proposals, submitted for funding to the Center for Special Studies and Programs, Bibliotheca Alexandria, Egypt.

Dr. HeshamMarzouk



Education:

1972: B.Sc., Civil Engineering, Cairo University, Egypt

1976: M.Sc., Civil Engineering, Univ. of Sask., Canada

1979: Ph.D., Civil Engineering, Univ. of Sask., Canada

Dr. HeshamMarzouk is a full professor and past chair of the Department of Civil

Engineering at Ryerson University and Memorial University. He led the Civil Department twice at Memorial for successful accreditations and once at Ryerson.

He has authored and co-authored nearly 250 technical publications, including 85 refereed journal articles and book contributions mainly in the areas of structural

building design, concrete research, infrastructure rehabilitation, and offshore design. Dr. Marzouk supervised 35 graduate students, including ten Ph.D. students. He received a number of significant research operating grants from various granting agencies, including NSERC, CFI, provincial, national and international awards during the past thirty years.

During his academic tenure he received the 2001 Teaching Award from the Association of Professional Engineers and Geoscientists of Newfoundland (APEGN). Dr. Marzouk chaired the Newfoundland Labrador section of the Canadian Society for Civil Engineers and served on several organizing committees for Regional, National and International Conferences.

Dr. Marzouk is a member of the Canadian Standard Association, CSA-S474 Standards Committee K154 & K158 for Offshore Structures Code, a Member of ISO TC67/SC7 Offshore Structures Code and CSA and an international member of the Egyptian Code for the use of Fiber Reinforced Concrete Polymer (FRP) materials for structural rehabilitation

Dr. Mohamed Sawan



Education:

1967: Nuclear Engineering Department at the University of Alexandria

1973: Received Ph.D. degree in Nuclear Engineering from the University of Wisconsin-Madison

Prof. Mohamed Sawan is a Distinguished Research Professor in the Engineering Physics Department at the University of Wisconsin and Associate Director of the Fusion Technology Institute. After he received his Ph.D., he returned to Egypt and joined the faculty in the Nuclear Engineering Department of Alexandria University for six years as Assistant and Associate Professor. He taught several nuclear engineering courses for undergraduate and graduate students. He supervised three Ph.D. and 10 M.S. theses on topics related to design and analysis of nuclear reactors during the period 1974-1980.

Since 1980 he has been working at the University of Wisconsin-Madison where his research activities aimed at development of fusion technology as an inexhaustible source of environmentally clean energy. He played a major role in the design and analysis for many conceptual fusion power plants.

Currently, he is leading the nuclear analysis in support for the design of the first International Fusion Test Reactor (ITER) whose construction started in France in 2011. He is a fellow of the American Nuclear Society and received several awards recognizing his contribution to research. These awards include the University of Wisconsin award for Excellence in Research in 1994 and the US Department of Energy award for outstanding leadership and performance in ITER design in 1998.

He published 400 papers and reports in Nuclear Engineering subjects and served as guest editor and reviewer for several prestigious fusion research journals. In the past 20 years he has been a frequent speaker at conferences held in Egypt on topics of energy and the environment. These included the 10th and 11th Cairo International Conference On Energy & Environment held in 2007 and 2009. He gave a plenary talk at the International Workshop on Nuclear Science and Education held in Cairo University in 2009. He gave plenary invited talks at the conferences on the Role of Engineering towards a Better Environment (RETBE) held in Alexandria in the years 2006, 2008, and 2010. He gave a presentation at the 4th Japanese-Mediterranean Workshop on Applied Electromagnetic Engineering for Magnetic, Superconducting and Nano Materials held in Cairo in 2005. He gave a plenary talk at the TWAS-ARO 7th Annual Meetingon, “Water, Nuclear and Renewable Energy: Challenges versus Opportunities” held at the Bibliotheca Alexandria Library in December 2011. He participated in the TOKTEN program for Egyptian scholars abroad. As contributor to that program, he spent a month in 2009 giving lectures and technical advice to scientists in the Nuclear Engineering Department of Alexandria University, the National Research Center, and the Egyptian Atomic Energy Agency. He gave several invited talks at the College of Engineering and College of Science in the University of Alexandria, the Bibliotheca Alexandria Library, the College of Science in Cairo University, the National Research Center, the Atomic Energy Authority, Arab Academy for Science and Technology in Alexandria, and the Alexandria Business Association.

Dr. Hany H. Ammar



Education:

Ph.D. University of Notre Dame, Notre Dame, Indiana, USA

M.S.E.E. University of Texas at El Paso, El Paso, USA

B.Sc. in Physics, Cairo University, Cairo, Egypt

B.S.E.E. Cairo University, Cairo, Egypt

Dr. Ammar is a Professor of Computer Engineering in the Department of Computer Science and Electrical Engineering at West Virginia University. Dr. Ammar has been teaching in the areas of Software Engineering and Computer Architecture since 1987. He has published over 150 articles in prestigious international journals and conference proceedings. Dr. Ammar is currently the Editor in Chief of the Communications of the Arab Computer Society On-Line Magazine, and he served from 2006-2008 as the Editor in Chief of the Journal of Computer Science and Engineering, in Arabic. In 2004, he co-authored a book entitled Pattern-Oriented Analysis and Design: Composing Patterns to Design Software Systems published by Addison-Wesley. In 2006, he co-authored a book entitled Software Engineering: Technical, Organizational and Economic Aspects, an Arabic Textbook, and co-edited the Proceedings of the Second International Conference on Computer Science Practice in Arabic.

Professor Ammar is currently the Lead Principal Investigator in a research project funded by the Qatar National Research Fund to establish an International Center of Excellence in Software Engineering. In 2010 he has been awarded a Fulbright Specialist Scholar Award in Information Technology funded by the US State Department - Bureau of Education and Cultural Affairs. He has been the Principal Investigator on a number of research projects on Software Risk Assessment and Software Architecture Metrics funded by NASA and NSF, and projects on Automated Identification Systems funded by NIH and NSF. He served as the WVU site Director of the Software Engineering Research Center (SERC) in 2002. Dr. Ammar is a member

of the IEEE and the ACM professional organizations. He has served as Chairman and member of Steering Committees and Program Committees of several International Conferences, Workshops, and Symposia. He previously served as the Chairman of the Upper Monongahela Subsection of the Pittsburgh section of the IEEE, a Director of the Pittsburgh section of the IEEE, and the student section advisor of the IEEE Computer Society at WVU.

Dr. Hany El Nagger



Dr. Hany El Nagger is a Geotechnical Engineer with more than 15 years of experience in civil construction, geotechnical and structural engineering and research in Canada and overseas. He has participated in several geotechnical and structural investigations, and is experienced in foundation design and tunnel design. Dr. El Nagger joined the Department of Civil Engineering at the University of New Brunswick on July 2011 as an Assistant Professor of Geotechnical Engineering and has been the Vice President for Engineering at the Centre for Research & Consultancy at ALHOSN University in Abu Dhabi, UAE since 2008. Also he is an Adjunct Professor in the Department of Civil and Environmental Engineering at the University of Western Ontario. Prior to his academic appointment, Hany worked with Hatch Mott MacDonald in Mississauga, Ontario, as Tunnel Specialist.

During his course of employment at HMM, Hany's duties included the analysis and design of several reinforced concrete tunnels and buried structures in Canada and the United States. Dr. El Nagger earned his M.Sc. in 2004 and his Ph.D. in 2007 in the field of buried infrastructures from the Department of Civil and Environmental Engineering, the University Of Western Ontario, Canada. Hany's research involve developing innovative foundation systems as well as the behaviour of concrete tunnel linings in soft ground and rock; with emphasis on seismic considerations and the effects of liner degradation.

For five years, he worked with the Geotechnical Research Centre (GRC) at the University of Western Ontario where he was involved in a number of research

projects. In collaboration with Ontario Concrete Pipe Association (OCPA), Dr. El Naggar developed an innovative ‘cellular’ precast concrete pipe with a continuous void system in the form of multiple, small diameter longitudinal conduits used to house telecommunication lines (e.g. fibre optic cables). Hany has several publications in refereed journals and conferences, has developed a simplified technique to account for the group effect in pile dynamics; and closed form solutions for the moments and thrusts in jointed and un-jointed composite lining systems, designed several foundation systems ranging from machine foundations subjected to dynamic loads to raft foundations for underground structure, as well as several tunnels and underground structures.

Dr. El Naggar serves as a reviewer for several geotechnical journals including the Canadian Geotechnical Journal, the Soil Dynamics and Earthquake Engineering Journal, and the Bulletin of Earthquake Engineering. He is the recipient of the 2005-2006 Outstanding Teaching Award from the Department of Civil and Environmental Engineering at Western. Dr. El Naggar won the 2006 L. G. Soderman Award, the 2005 R.M. Quigley Award, and the 2004 Milos Novak Memorial Award.

Dr. El Naggar is a member of several professional associations including the Association of Professional Engineers of Ontario (PEO), the American Concrete Institute (ACI), the American Society of Civil Engineers (ASCE), the Canadian Society of Civil Engineering (CSCE), the Canadian Geotechnical Society (CGS), and the Engineers Syndicate, Egypt.

Dr. Ashraf Anasar

Education:

- 1980:** Ph.D. Michigan State University, Poultry and Animal Science & Pathology
- 1972:** BVSc (DVM) University of Cairo, College of Veterinary Medicine, Cairo, Egypt
- 1975:** MS Michigan State University, Microbiology & Public Health

Dr. Ansara is truly a pioneer in business development and creating several tools to build up communities to become prosperous. He has an extensive entrepreneurial

experiences in business planning, design and implementation for start-up companies, pharmaceuticals and Biological companies. Dr. Ansara has co-founded several profitable corporations such as Regency Holding, Paradigm Spine, Lena Center for Living, Rinehart Lake Mary Surgical Center and Ansara Heathrow Center, LLC. DR Ansara was awarded the Arab American for the Year 2009 from the ADC Michigan chapter for his evaluable contribution to the business community and the Arab Americans in the United States. Over thirty years of experience working in academia, industry, international business and the Federal Government of the United States in the area of food safety, public health, microbiology, and vaccines and biological productions. Long term consultants with many international corporations to establish joint ventures.

Work Experience:

July 1998- Present: President & CEO, Regency Holding (Ansara Holding, Inc.)

The company is a holding structures which is highly diversified in many other joint ventures in the US and overseas. DrAnsara is shareholder and co-founder of Paradigm Spine, LLC , a pioneer pharmaceutical company specializing in the development of certain devices implants to improve spine motion for human patients. Regency Holding is the creator of Lena Center for Living brand as Assisted Living Facility for Alzheimer and Parkinson Disease Patients. Regency is developing 92 Beds ALF facility under construction in Altamonte Springs, Florida and own and manage 68 beds San Marcos Rehabilitation Center in St. Augustine, Florida.

1992-1998: Supervisory Veterinary Medical Officer, US-Department of Agriculture

1988-1992:Managing Director and Founder BioVetCompany (Egyptian American Pharmaceutical Company), Cairo, Egypt

1986-1988: Vice President- Quality Assurances, Piedmont Poultry Company/ Servac, Inc. Cary, North Carolina

1985-1986:General Manager & CEO Magna Technologies, Inc., Research Triangle Park, NC

1980-1985: Assistant Professor, School of Veterinary Medicine, North Carolina State University

Honours and Awards:

Republican Gold Medal from the National Republican Committee, 2003; Ronald Regan Republican Gold Medal from the NRCC 2005; The Outstanding Meritorious Service Award from the NRCC 2006; The Congressional Medal

from the Business Advisory Council of Distinction of the NCRR; 2008; Sigma XI Scientific Research Society Award, North Carolina State University, 1982; Who's who in Veterinary Science and Medicine (USA); Who's who in the South and Southeast (USA); Beta Biological Association; Honorary alumni-indictiohonoraris from School of Veterinary Medicine, North Carolina State University-1984; National S

outheastern Poultry Science Club Scholarship. 1978; Hubbard Farms International Scholarship, 1977

Community Services:

Raleigh Symphony and Fine Art Committee, North Carolina; Science in Incubator, City of Altamonte Springs, Florida, Advisory Council; Kids House of Sanford, Florida; City of Lake Mary, Florida Life Walk: a Contribution Monument Stand at Rinehart Rd.; The Arab American Community Center, Chairman Business & Professional Chapter, Orlando, Florida; Egypt Revolution Conference, 2011, Washington DC, Vice President ; ADC- American Arab Antidiscrimination Committee, Speaker and Panel Chairman, 2009

Seminole County Public School Partners in Excellence Program; Seminole County Business Partners Program

Dr. Mohamed A. El-Sharkawi



Mohamed A. El-Sharkawi, Professor of Electrical Engineering, Department of Electrical Engineering, University of Washington, USA

Mohamed A. El-Sharkawi is a Fellow of IEEE. He received his B.Sc. in Electrical Engineering from Cairo High Institute of Technology (Currently, Helwan University) in 1971, and his Ph.D. in Electrical Engineering from the University of British Columbia

in 1980. In 1980 he joined the University of Washington as a faculty member where he is presently a Professor of Electrical Engineering. He also served as the Associate Chair, the Chairman of Graduate Studies and Research, and the chairman of promotion and tenure.

Professor El-Sharkawi served as the Vice President for Technical Activities of the IEEE Computational Intelligence Society. He is currently the chairman of the IEEE subcommittee on renewable energy machines and systems, IEEE awards subcommittee, and IEEE fellows subcommittee.

He is the founding chairman of numerous IEEE task forces, working groups and subcommittees. He organized and chaired numerous panels and special sessions in IEEE and other professional organizations. He organized and taught several international tutorials on intelligent systems applications, energy management systems, renewable energy, integration of wind systems, electric safety, forecasting, vulnerability assessment, VAR management, and power systems operations.

He is the founder/co-founder and chair of several conferences including the international conference on the Application of Neural Networks to Power Systems(ANNPS), Intelligent SystemsApplications to Power (ISAP), the Northwest Energy System Symposium (NWESS). He is also a member of the organizing committees of numerous regional and international conferences.

Professor El-Sharkawi is a member of the editorial boards and is associate editor of several journals. He served as editor/co-editor of several IEEE tutorial books on Intelligent Systems and Heuristic Optimization. He published over 250 papers and book chapters in his research areas. He authored three textbooks on fundamentals of Electric Drives, Electric Energy: An Introduction, andElectric safety. He also authored and co-authored 4 research books in the area of intelligent systems. He holds 5 licensed patents in the area of renewable energy VAR management, and minimum arc sequential circuit breaker switching.

Professor El-Sharkawi served as an external evaluator for several engineering schools and research programs in the Middle-East. He is also an expert witness in the areas of electric safety, system's operation and control, power systems, and renewable energy.

Dr. FathiHabashi



FathiHabashi is a Professor emeritus of Extractive Metallurgy at Laval University in Quebec City, Canada. He was born in Al Minia on October 9, 1928. He holds a B.Sc. degree in Chemical Engineering from Fouad Al Awwal University [now known as University of Cairo], a Dr. techn. degree in Inorganic Chemical Technology from the University of Technology in Vienna. He is an Honorary Professor at the Technical University of Oruro in Bolivia and was awarded honorary doctorates from the Saint Petersburg Mining Institute in Russia and the National Technical University in Lima, Peru.

He is a Fellow of the Canadian Institute of Mining, Metallurgy, and Petroleum, and was awarded its Silver Medal. He was a holder of the Canadian Government Scholarship in Ottawa (1960-62), taught at Montana School of Mines [now Montana College of Mineral Science & Technology] (1964-1967), worked at the Extractive Metallurgical Research Department of Anaconda Company in Tucson, Arizona before joining Laval University in 1970.

Habashi was guest professor at a number of foreign universities, a guest lecturer at a number of institutions, and consultant to the United Nations Development Program for the Cuban Nickel Laterite Project. He authored Principles of Extractive Metallurgy in 4 volumes and a number of textbooks and edited Handbook of Extractive Metallurgy in 4 volumes.

Dr. Mohamed Labib Salem

Dr. Mohamed Labib Salem was born in Dahtoorra village, Zifta city, Gharbia, Egypt in December 1962. Upon his graduation from Tanta University in 1984, he was appointed as instructor (demonstrator) at Zoology Department, Faculty of Science to teach laboratory courses and to study MSc, which he obtained in 1989 in the field of “Comparative Vertebrate Anatomy”. In 1990, Salem was promoted to Assistant Lecturer where he continued to teach laboratory courses and studied his PhD.

In 1992, he was granted a 27-month Ph.D. scholarship from the Ministry of Higher Education, Egypt to visit Department of Immunology, Medical Institute of Bioregulation, Kyushu University, Japan from 10/1992-1/1995 under the supervision of Prof. Kikuo Nomoto, focusing on how contraceptive hormones modulate the immunity. Salem returned from Japan to Tanta University, Egypt and obtained his PhD in December 1995 in the field of ImmunoEndocrinology. In 1996, he was appointed as Lecturer (Assistant Prof.) of Immunology at Tanta University and started his independent research in immunology, focusing on the role of immune cells in shaping the anti-tumor responses. In 1997, he returned back to Kyushu University sponsored by a postdoctoral fellowship from the Ministry of Higher Education (9/1997-3/2000), Japan focusing on cancer immunology. He then returned to Tanta University and initiated his laboratory focusing on cancer immunology.

In 2001, he was promoted to Associate Prof. of Immunology at Faculty of Science, Tanta University. Salem then moved to Department of Surgery, College of Medicine, Medical University of South Carolina, USA as a visiting Prof. and stayed there until 9/2010 focusing his research on cancer immunology. In 2006, he was promoted to tenure Prof. of Immunology and served as the Supervisor of the Immunology and Biotechnology Research Unit at Faculty of Science, Tanta University and as the Director of the Tanta University Competitive Project Unit, and the general coordinator of the collaborative scientific research committee of Tanta University and Mubarak City for Scientific Research and Technology Applications, Egypt. Salem's research focuses on developing novel approaches to improve anti-viral and anti-tumor immunity and how cancer and HCV escapes from immunity. His research was funded by grants from different sources including Department of Defense (DOD; USA), industry (Marine Polymer Technology; USA), and National Institute of Health (NIH; USA), Science and Technology Development Fund (Egypt), and Tanta University (Egypt).

Salem has been an active member of several professional societies, including American Association of Cancer Research, American Association of Immunologists, International Society of Biological Therapy, USA, International Society of Zoological Sciences, China, International Society of Cytokine, USA, Egyptian Association of Immunologists, Egypt, German-Egyptian Society of Zoology, European Society of Cancer Immunology, Greece,

The Association of African Biomedical Scientists, USA, Association of Egyptian-American Scholars, USA; Japan- Asia Research Community Network, Japan. He has attended more than 55 conferences in Egypt, USA, Japan, Italy, Brazil, and Saudi Arabia.

Salem received from the Academy of Scientific Research and Technology, Egypt the State Incentive Award in Basic Biology in 2003 and the State Excellence Award in Basic Biology in 2010. He also received award from Marine Polymer Technologies, Inc. (Boston, USA) and Tanta University. He also received the 2011 Visiting Scholar Award from the Third World Academy of Science (TWAS). Salem's publications include one book chapter on tumor immunology, and 67 articles, which have been cited more than 600 times. He supervised 4 PhD theses and 10 Master dissertations. He is an executive member in the Condolence Society for Hematological Patients and Family, Egypt, in the Middle-Eastern Association for Cancer Research (MEACR), Canada.

He has served as international communications in several national and international meetings in Egypt, USA, and Europe. He also served as Ad hoc reviewers in several national and international funding foundations in Egypt, USA, Switzerland, Saudi Arabia, and Yemen. He also served as reviewer and in the editorial

board in many peer-reviewed journals in the field of immunology.

Dr. Wael El Ghandour



Dr. Wael El Ghandour, co-founder of Canadian Innovative Management Solutions (CIMS) Ltd., is a registered Project Management Professional in North America at PMI and registered as a Professional Engineer in the province of Alberta with over 15 years of experience as project controls, instructor, and project engineer.

Wael received his M.Sc. from University of Karlsruhe, Germany, and his Ph.D. from University of Alberta, Canada. During his Ph.D., he developed a new integrated

simulation model for construction management based on information modeling subtracted from chemistry theory.

As the vice president of CIMS Ltd., Wael's role is to manage and direct our offices overseas, continue providing consulting, and training services to existing and future clients overseas, while developing new business in the areas of Construction Innovation and Technology. This includes PA UT for welding inspection, 3D Laser Scanning, Impact Echo (IE), and Spectral Analysis of Surface Waves (SASW).

His past experience includes leading project controls and planning teams for some major projects in North America. This includes Kearn at Imperial Oil / ExxonMobil, PSI at Syncrude, KH-3 at EPCOR, MNU and MCU at Suncor Energy with total budget of different projects over than \$25.0 Billion.

His innovative creative approach helped many major companies in North America to develop new methods for managing and controlling their projects including Imperial Oil / ExxonMobil, PCL, Lockerbie & Hole, TIC, COLT-WorleyParsons, and City of Edmonton, Canada.

Awards:

1994 STUBE award, Stuttgart Karlsruhe University, Germany

2003 Stollery Award University of Alberta, Canada

2004 AACE Award AACE, Canada

2005 I3 (Invention) Award CoSyn Technology, Canada

2006 Performance Award Bantrel, Canada.

Dr. Yehia El Budrawy El Mogahzy



Education:

Ph.D. Polymer & Fiber Science- North Carolina State University, Raleigh, N.C., U.S.A.
1987

MS. Textile Engineering-Alexandria University, Egypt, 1978

BS Textile Engineering-Alexandria University, Egypt, 1978

Positions held:

- 2009-Present: Dean of Math, Science, Technology, and Engineering- Ocean County College, Toms River, New Jersey, U.S.A
- 1987-2009 Professor of Polymer and Fiber Engineering-Auburn University, Auburn, AL, U.S.A.
- 2008-Present-Founder and Director of Quality Tech Consulting, USA
- 2009-Present-*Adj. Professor of Statistics, Operations Management, Quantitative Methods & Information Systems-Kean University, NJ, U.S.A*

Consulting:

- 2002-2005-Technical Consultant-Manufatura Di Legnanon- Italy
- 1990-2005-Technical Consultant-Cotton Incorporated, U.S.A.

- 2003-2004- Consultant for the Ministry of Industry and Technological Development-Egypt

Research and Publications:

- Supervised and co-chaired committees of 11 PhDs, and 16 MS dissertations at Auburn University-5 from Egypt.
- Authored and co-authored of over 70 refereed publications.
- Led research projects amounting to over \$7 million of generated funding (Auburn University & NCSU)

Dr. Mohamed Gamal El Din



Education:

Dr. Gamal El-Din joined the Environmental Engineering and Science Program at the University of Alberta in July 2001. Dr. Gamal El-Din earned his Bachelor's Degree in Civil Engineering from Cairo University (Egypt) in July 1991. After that, he worked as a structural design engineer in ELOSEILY Consulting Firm in Cairo (Egypt) for two years. In January 1994, he started his graduate studies at Wayne State University in Michigan (USA) where he received his Master's Degree in Civil Engineering in August 1995. In September 2001, he received his Doctoral Degree in Environmental Engineering from the University of Alberta.

Dr. Gamal El-Din is presently a Professor in the Department of Civil and Environmental Engineering at the University of Alberta. He is also an Adjunct Professor in the Department of Public Health Sciences, School of Public Health at the University of Alberta. Dr. Gamal El-Din is the lead on the Helmholtz-Alberta Initiative (HAI) Theme on Oil Sands Tailings Water Management. He started a senior

NSERC Industrial Research Program on Oil Sands Tailings Water Treatment in July 2011.

Professional Affiliations:

Member of Association of Professional Engineers, Geologists and Geophysicists of Alberta (APEGGA), Canadian Society for Civil Engineering (CSCE), American Society of Civil Engineers (ASCE), Egyptian Syndicate of Civil Engineers, International Water Association (IWA), American Water Works Association (AWWA), International Ozone Association (IOA), Water Environment Federation (WEF), and American Society for Engineering Education (ASEE).

Research Activities:

Dr. Gamal El-Din's research interests include: the application of ozonation and advanced oxidation processes for water and wastewater treatment; the application of phase Doppler anemometry and particle image velocimetry techniques to multi-phase flows; studies of fast-reaction kinetics; animal manure treatment; modeling the performance of treatment systems and natural environmental systems; the environmental engineering applications of artificial neural network modeling; the application of membrane technology for water and wastewater treatment; and the development of innovative treatment technologies and approaches for treating oil sands tailings water.

Research Funds and Collaborations:

Dr. Gamal El-Din has successfully applied and received research grants from different governmental agencies and industry, such as Natural Sciences and Engineering Research Council of Canada (NSERC), Canada Foundation for Innovation (CFI), Network of Centres of Excellence (NCE), Alberta Innovates Energy and Environment Solutions, Alberta Innovates Bio Solutions, Syncrude Canada Ltd., Suncor Energy Inc., Canadian Natural Resources Ltd., Total E&P Canada Ltd., Shell Canada Ltd., among others.

Dr. Gamal El-Din's collaborations involve multidisciplinary research projects within and outside the University of Alberta in areas such as soil and environmental microbiology, public health, biochemistry, analytical chemistry, and chemical engineering in their relationship to environmental science and engineering. Currently, Dr. Gamal El-Din is working in collaboration with the Department of Civil and Environmental Engineering at Cairo University on projects related to water and wastewater treatment.

Dr. Ahmed Yousef



Education: 1984 Ph.D., University of Wisconsin-Madison

Expertise:

- Application of microbiology principles to produce safer and commercially-viable foods.
- Uses of ozone, as a sanitizer or decontaminating agent, in food processing.
- Discovery of new antimicrobial peptides as potent alternatives to current food preservatives.
- Developing methods to improve the efficacy of emerging technologies against processing-resistant pathogens.

Recent Research Accomplishments:

- 🌐 Discovered new antimicrobial peptides (paenibacillin and paenibacterin), that are now being considered by food and pharmaceutical industries.
- 🌐 Applied ozone gas, in combination with heat, to pasteurize shell eggs.
- 🌐 Developed method to decontaminate fresh produce.
- 🌐 Revealed mechanisms of inactivating foodborne pathogens by ultra-high pressure, pulsed electric field, and other emerging food preservation technologies.

Teaching at Ohio State University:

- 🌐 Food Microbiology Lecture (3 credits)
- 🌐 Food, Microbiology and Laboratory

Consulting and Outreach:

- 🌐 Helped the General Organization for Export and Import Control (GOEIC) of Egypt in implementing modern analytical techniques and initiating the Egyptian food safety agency.
- 🌐 Worked closely with producers and processors to implement new measures against pathogens in food.
- 🌐 Assisted fresh produce industry in apply sanitizing gases to control human pathogens.
- 🌐 Organized and contributed to workshops aiming at educating small food processors on ways to improve food safety and to protect consumer's health.

Dr. Ismail I. Gomaa



Professor Ismail I. Gomaais a Professor of Accounting and the former Dean of the Faculty of Commerce at Alexandria University. He received his PhD. in accounting from the University of Florida and served as a faculty member at the University of Florida, and the Ohio State University, where he was recognized for teaching excellence. He also received the Alexandria University Award of Excellence.

Dr. Gomaa has also served as the Chairman of the Department of Accounting, Acting Chairman of the Management Information Systems Department, Chairman of the Board of Directors of the Institute of Accounting Studies, and a member of the Board of Directors of the Institute of Statistics and Insurance Studies at Alexandria University. He is also a member of the board of directors and the chairman of the audit committee of Damietta Containers Handling Corporation.

Dr. Gomaa held a diplomatic position as the Consul for Cultural and Educational Affairs of Egypt in Canada, and he is currently the Secretary General of the Business

Education Sector and a member of the advisory committee on Service Science, Management and Engineering at the Supreme Council of Universities in Egypt. He initiated and served as the Executive Director of the Distance Learning Project at the Ministry of Higher Education. Dr. Gomaa served also as a member of the Education Committee of the American Accounting Association's International Accounting Section, and a member of the Teaching and Learning Team of the Annual Program Committee of the American Accounting Association. He was also selected to serve as a member of the Administrative Sciences Committee of the Supreme Council of Culture in Egypt.

In addition to his extensive research and publications, Professor Gomaa is the author or co-author of nine textbooks in the areas of financial accounting, managerial accounting, auditing, and operations research. He has supervised twenty two PhD. Dissertations and Master theses, and developed, or participated in the development of, undergraduate and graduate programs for universities in Egypt and the Arab region.

Dr. Gomaa is a member of several academic and professional organizations and has extensive experience as a certified public accountant (CPA) and financial advisor. He served as an advisor to the Governor of Alexandria and the financial advisor of Alexandria University.

Dr. Tarek M. Khalil



Dr. Tarek M. Khalil is the Founding President and Provost of Nile University, Egypt. He is emeritus Professor at the University of Miami having served as Professor of Industrial Engineering and Director of the Management of Technology program and the Environmental/Occupational Safety and Health program at the University. He also held secondary professorships in Biomedical Engineering, Epidemiology and Public Health and in the Department of

Neurological Surgery. He has been involved with the higher education system in the United States for 40 years. His work experience spans both the state university system as well as the private university system, having taught at the University of Florida, the University of Miami, Texas Tech University and many other Institutions around the world including France, Finland and Egypt.

Dr. Khalil's former administrative experience includes serving as Dean of the Graduate School at the University of Miami. Before his appointment as a Dean of the Graduate School, he served as Chairman of the Department of Industrial Engineering at the University of Miami. He also served as the Director of the Ergonomics and Bioengineering Division of the Comprehensive Pain and Rehabilitation Center of the University Of Miami School Of Medicine and as Director of the Environmental / Occupational Health and Safety Program.

Dr. Khalil is the Founder and current Chairman of the Board of Directors of the International Association for Management of Technology (IAMOT), with members from more than 85 countries. He chaired more than 20 International Conferences in Management of Technology.

He is also the co-founder of the University of Miami Institute for the Study of Quality in Manufacturing and Service in the School of Business Administration. He served the Institute of Industrial Engineers (IIE) as Chairman of the Council of Fellows, Director of the Work Measurement and Methods Engineering Division,

Vice President Region IV, Director of Honors and as a member of the Board of Trustees.

Dr. Khalil has served as a consultant to governments, industry and educational institutions in the US, Egypt, France, Finland, Brazil, Japan, Guatemala, Taiwan, Saudi Arabia and Bahrain as well as the Fulbright Commission and the United Nation's UNIDO, UNESCO and UNDP. He also served on advisory panels and as a consultant for The Department of HHS, NIOSH, NSF, Dade County, Monroe County and Project HOPE. Companies consulting with him included Baxter, FPL, Eastern Airlines, DNS, M.C. Qualidade, US Homes, Standard Data, Hobart Equipment, IBM, Siemens and many large, medium and small enterprises.

He designed and developed many educational programs at the graduate and undergraduate levels and offered graduate education and training programs at IBM, McDonnell Douglas, Rockwell International, ATT, UNISYS, United Space Alliance, Boeing, Pratt and Whitney, GE and for several academic institutions around the world.

He is the author of McGraw Hill book "Management of Technology: The Key to Competitiveness and Wealth Creation" and co-authored or edited 15 books and more than 350 publications. He serves as a senior editor of the Journal Technovation and on the editorial board of several international scientific journals in Innovation and Technology Management.

Dr. Khalil is the recipient of many awards including the Award for Technical Innovation in Industrial Engineering, Doctor HonorisCausa from the Grenoble School of Management, France, Doctor HonorisCausa from the Institut National Polytechnique de Lorraine, the University of Miami College of Engineering Researcher of the Year Award, the IIE David F. Baker outstanding research Award, the IIE Phil Carroll Award, the IIE Ergonomics Division Award, the Human Factors Society Paul M. Fitts Award and the Jack A. Craft Award.

Dr. Elsayed A. Orady



Dr. Orady joined The University of Michigan – Dearborn (UM-D) in 1986 as an assistant professor of manufacturing in the Industrial and Manufacturing Systems Engineering Department where he teaches manufacturing courses and conducts research in manufacturing related areas. Dr. Orady is currently the professor of manufacturing and the coordinator of the manufacturing engineering program. He has written and won several grants from industry, NSF, and professional organizations including SME. His current research interests and activities are in machine tools, metrology and precision measurements, machining processes and process simulation, tool monitoring and process diagnostics, process automation, manufacturing systems integration, rapid prototyping, virtual reality, sustainable manufacturing and robot simulation. He has taught several manufacturing courses including manufacturing processes, computer aided manufacturing, computer integrated manufacturing, industrial robots, computer aided machine and tool design, and statistics.

Dr. Orady has over 43 years of experience in teaching and conducting research in the manufacturing fields at several universities including Cairo University, Egypt; King Saud University, Saudi Arabia; University Technology (UTM), Malaysia, and McMaster University, Hamilton, Ontario, Canada. Dr. Orady has four years of industrial experience as a Senior Mechanical Engineer and Coordinator of the R&D Department with Combustion Engineering Superheater Canada, Ltd. (Currently ABB, Inc.). Dr. Orady spent the 1993/94 academic year on sabbatical with FANUC Robotics North America, Inc. in Auburn Hills, Michigan, where he gained industrial experience in robot design, process automation, and testing and qualification of robots. He also worked as a consultant to GM Powertrain Division during the summer of 1995, and as visiting professor with the Advanced Stamping Division of Chrysler during the summer of 1996. Dr. Orady worked as a consultant to United Technologies Automotive (currently Lear Corporation), Dearborn, Michigan in the rapid prototyping lab during the Spring/Summer of 1998.

Dr. Orady has over 90 publications in topics related to the manufacturing field and has written several chapters in books, including a chapter in the SME's «Tool Design Handbook.» Dr. Orady has supervised or co-supervised over 24 Master Theses and two Ph.D. Theses.

He is an active member in several professional organizations including SME, ASME, IIE and is a member of the USA Technical Advisory Committee for ISO-Robots Manufacturing Environment. He is the Associate Editor-In-Chief for the International Journal of Science and Technology (IJST). Dr. Orady contributed in organizing several conferences for AMSE, PCMM, SME and IEEE. He is also a reviewer for several journals including precision engineering, SAE technical papers and transactions, manufacturing systems, etc. Dr. Orady is a reviewer for many research funding organizations in USA, Canada and Hong Kong. Dr. Orady reviewed the Promotion and Tenure credentials for many faculty members in many universities in USA, Canada, Saudi Arabia and Malaysia.

Dr. Orady has served on several committees at the department, the College of Engineering and Computer Science, and the university levels. Some of these committees (beside many others) include: the Department Promotion and Tenure (P/T) Committee, the College of Engineering Executive Committee, the College of Engineering Curriculum Committee, the University Senate, Diversity Committee, Benefits Committee, Graduate Board, University Budget Committee, and the Senate Promotion and Tenure Committee. Dr. Orady served as the chair of the UM-D faculty senate for the academic year 2003/04 and Vice Chair of the Senate for the academic year 2010/11.

Dr. Orady is the adviser for the SME Student Chapter and member of many SME committees including SME Technical groups. He was the chair of the non-traditional cutting technical group. He is a member of the forming and fabricating steering committee. Dr. Orady served as a member of the organizing committees for several conferences including FABTECH- SME-AWS Conference, International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering (CIS2E), International Conference on Design and Concurrent Engineering, UniversitiTeknikal Malaysia Melaka, and many other conferences

Dr. Said Easa





Education



- 1982** Ph.D. University of California at Berkeley (Transportation)
- 1976** M.Eng. McMaster University (Transportation)
- 1972** B.Sc. Cairo University (Civil)

Major Career Positions:






- 2000-10** Chair and Director of Quality Assurance, Faculty of Engineering and Architectural Science, Ryerson University
- 1982-00** Associate, Professor of Civil Engineering, Lakehead University
- 1976-78** Research Engineer. Traffic Research Group, McMaster University
- 1972-74** Demonstrator, Department of Civil Engineering, Cairo University

Collaborations With Egypt

-  Co-supervised, with Dr. Ibrahim El-Dimeery, two Ph.D. students from Ain Shams University (ASU) under the Channel System, Egyptian Cultural Bureau.
-  Served as keynote speaker at Al-Azhar Engineering International Conference.

-  Served as instructor for a training workshop on advances on highway safety, sponsored by Highway Agency.
-  Taught two graduate courses on advanced geometric design at Nile University and Ain Shams University.

Major Professional Activities

-  Vice-President: Canadian Society for Civil Engineering (CSCE) Program Coordinating Council (2006-08)
-  Chair: 1st to 6th CSCE national transportation conference (1996-05),
-  Master of Ceremony: CSCE 2nd nationwide discussion forum on infrastructures, Toronto, Ontario (2000).
-  Leader: CSCE delegation to China/Pakistan on sustainable transportation-land use planning (1998).
-  Co-Chair: ASCE specialty conference on “Transportation, land use, and air quality” Portland, Oregon (1998).

Selected National and International Awards

- 2010** Award of Academic Merit from Transportation Association of Canada in recognition of long-term contribution to the advancement of the academic field and to the development of tomorrow’s transportation leaders.
- 2003** Sandford Fleming Award, from CSCE in recognition of outstanding contributions to the development and practice of transportation engineering in Canada.
- 2009** Best Paper Award, Operational Effects of Geometrics Committee, U.S. Transportation Research Board.
- 2005** Arthur M. Wellington Prize, from American Society of Civil Engineers (ASCE) for the best paper on transportation on land, on water, in air, or on closely related fields
- 2001** Frank M. Masters Transportation Engineering Award, from ASCE in recognition of outstanding contributions to ASCE and the transportation profession

Dr. Azza Hamed



Education

1996: Fellow of the American Academy of Pediatrics

1993: Fellow of the Royal College of Physicians and Surgeons of Canada

1990: Master of Allergy and Immunology, Memorial University of Newfoundland, Canada

1981: MBbch, KaserEleine, Cairo University, Egypt

Professional Experience

Clinical Consultant Pediatrics, Allergy & Immunology, Ontario, Canada






Clinical Associate Professor of Pediatrics, Allergy & Immunology, Memorial University, Canada

Teaching undergraduate Immunology course, Memorial University, Canada

Teaching Residents and Fellows Clinical Immunology & Allergy, Memorial University, Canada

Publications and Presentations:

Conducted research on the following subjects:

-  Hereditary angioedema as an international current state of the art review
-  Food Allergy prevention, Diagnosis and Management
-  Anaphylaxis Management
-  Acute Asthma Treatment (Canadian Consensus)
-  Role of Obesity in Childhood Asthma.

Zinc Deficiency, Effect on T-Lymphocyte and Natural Killer Cells

The previous research topics have been presented at several national and international organizations, including the American and Canadian Academy of Allergy and Immunology, American Thoracic Society and Association of Egyptian-American Scholars.

Professional Committees

 National Canadian Immunoglobulin's Infusion Advisory Board

 National Canadian Nutrition Advisory Board

Dr. Tarek Hagzy



Tarek Hagzy, Ph.D., P.Eng., M.S.E., B.Sc. is Professor of Civil Engineering at the University of Waterloo. Dr. Hegazy received an M.S.E. in Civil Engineering from the University of Michigan (1986), and a Ph.D. from Concordia University (1993). He has held various professional and academic positions and participated in a wide spectrum of new/rehabilitation projects. His experience includes project planning and control, asset management and project management consultation, software development, and training. Dr.

Hegazy is the sole author of the textbook “Computer-Based Construction Project Management” published by prentice Hall in 2002.

Dr. Hegazy is internationally renowned for his research on Computational tools for Asset management and Construction Project Management. He is the author of over 170 technical publications in journals and conference proceedings. His research uses tools of computational intelligence to efficiently plan and execute municipal infrastructure programs and support contractors’ decisions on high risk and constrained projects. He graduated 12 Ph.D. and 22 Master’s students. Dr. Hegazy collaborates with many universities worldwide and received several awards of excellence in research. In 2004, he has been acknowledged as one of the world’s top five contributing authors to ASCE construction research (ranked third in the period 1997-2002), as reported in a recent article analyzing trends in construction research (Journal of Construction Engineering and Management, American Society of Civil Engineers, Vol. 130, No. 3, 2004, page 437). In 2011, Dr. Hegazy has two patents and received a best paper award from the Journal of Management in Engineering, ASCE and top cited paper award from the Advanced Engineering Informatics Journal. He has consulted and advised a number of contractors and government organizations in Canada. He is the founder of OPTEAM Project Management Consultants Inc.



Education:

- Ph.D.** Electrical Engineering (Power Systems), 1985
University of Southern California (USC)
- MSEE** Assiut University, Assiut, Egypt, 1979/1980
- BSEE** Assiut University, Assiut, Egypt, 1976 (Distinction
with Degree of Honor)

August 1993- Present

Professor of Electrical Engineering, California State University Long Beach.

Teaching courses in the areas of Energy Conversion, Machines and Robotics, Power Systems: Steady-State and Dynamic Analyses, Distribution Systems and High Voltage Engineering, Computer Applications. Directing and Conducting research in the areas of Power Quality, High Voltage Insulation, Power System Operation and Voltage Instability of Utility Power Systems.

PRINCIPAL INVESTIGATOR - Carried out several research projects with local utility companies in the areas of Power Quality, voltage instability and high-voltage insulation and preparing proposals for new research.

1997 – 1999 and 2002 - 2004

Undergraduate Advisor, Electrical Engineering Department, CSULB

2004 –Continuing: Participation in AEAS Conferences:

2012 On the Role of Engineering Student Projects in Enhancing the Safety
of Ground Transportation in Local Communities

2011 Development of an Economical Commuter Electric Vehicle for
Congested Cities

- 2010 Power System Stability under Dynamic Behavior of Smart Grid Components
- 2009 Narrowing the Gap between Engineering Education/Research and Public Engineering Services in Egypt
- 2008 Simulation and Virtual Laboratory Education in Electrical Power Engineering
- 2007 Technology Application in the Development of Desert Lands with Environmentally-Aware and Affordable Means
- 2006 Evaluation of Stand-alone Solar Energy-based Small Water Desalination Systems
- 2004 Teaching Effectiveness and Globalization of Electrical Engineering Education

Dr. Ali Mohamed Hussein



Professor Electrical and Computer Engineering
Department, Ryerson University

Research Areas:

Tall-structure lightning; measurement of the
lightning current and its generated electromagnetic
pulse;

lightning detection; lightning protection

Education:

PhD in Electrical Engineering, 1979

University of Toronto, Toronto, Ontario, Canada

“Acoustic Wave Radiation in Piezoelectrics”

MSc, Electrical Engineering, 1972

Ain-Shams University, Cairo, Egypt

BSc, Electrical Engineering, Electro-Physics, 1967

Alexandria University, Alexandria, Egypt

Experience:

- 🌐 Faculty Member (1989-present, Professor since 1994)
- 🌐 Electrical and Computer Engineering Ryerson University
- 🌐 Adjunct Professor (1989-present)
- 🌐 Electrical and Computer Engineering, University of Toronto, Toronto, Ontario, Canada M5S 3G4
- 🌐 Visiting Professor (April-August, 2007)
- 🌐 Electrical Engineering Department Alexandria University, Alexandria, Egypt

- Member of the Scientific Staff (1986-1988)
- Electromagnetics Technology, Bell Northern Research, Ottawa, Ontario, Canada, K1Y 4H7
- o Research Associate and Lecturer (1982-1986)
Electrical Engineering Department, University of Toronto
- Assistant Professor (1980-1982)
- Electrical Engineering, Riyadh University, Riyadh, Saudi Arabia
- Research Associate (1979-1980)
- Electromagnetics Section, Electrical Engineering Division, National Research Council, Ottawa, Ontario, Canada
- Assistant Lecturer and Demonstrator (1967-1974)
- Electrical Engineering, Ain-Shams University

Dr. Ayman S. Mosallam



Ayman S. Mosallam is a Professor of Structural and Earthquake Engineering and the Director of the UCI Structural Engineering Testing Hall at the Civil & Environmental Engineering Department at University of California, Irvine (UCI). He is a registered Structural Professional Engineer in USA and has more than thirty-three years of experience in structural engineering with a particular interest in development of sustainable and advanced materials, innovative building systems and affordable housing. Over the years, Dr. Mosallam has led several ventures related to structures and infrastructural systems and has succeeded in transferring several structural innovative systems from the laboratory to the field that are being used in different states in USA, as well in several countries across Latin America and Europe.

He is the Founder of the Egyptian Green Building Council and has served as a mentor to initiate several Green Building Councils in Africa and Asia. He is the principal author of the Green Pyramid Rating System (GPRS) of Egypt. Professor Mosallam is a leading authority in USA and in Egypt in the area of non-conventional building system, especially those that are environmentally-friendly and energy-efficient. He is also a contributing author of the US International Code Council Acceptance Criteria AC 178, 125 and AC15 for panel system. He is a member of ASCE Construction Institute Materials Directorate (Executive Committee) and a Control Member on the ASCE Structural Composites and Plastics Committee (SCAP). Professor Mosallam serves on the Technical Advisory Board of the International Accreditation Service (IAS). He has published over 450 technical papers, chapters, and reports on structural performance of structural systems and authored, edited and co-edited seven books in this area.

He is the author of the ASCE Design Manual for Composites Joints and the co-developer of the ASCE/PIC Prestandard Document on Structural Design of Pultruded FRP Composite Structures. He is serving on the editorial board of

Composites: Part B Journal and the Guest Editor for special issues on Infrastructure Applications for Composites: Part B International Journal, Reinforced Plastics and Composites Journal and Advances in Civil Engineering Journal. Professor Mosallam is the recipient of numerous prestigious awards including the Outstanding Research Award from the International Conference of Composites Engineering, Best Design Paper Award from Composite Institute, the Industry Impact Award from McGraw Hill, Best Paper Award from SPI, and the Outstanding Engineering Educator of Year Award from American Society of Civil Engineers, among other numerous national and international awards.

Dr. Ahmed H. ElSawy



Research Interests

1. Development of Materials and Manufacturing Processes
2. Welding Engineering and Metallurgy
3. Recycling and Reuse of Industrial Solid Waste Materials
4. Web-based Distance Learning
5. Renewable Energy and Sustainability

Presentations

1. Ahmed ElSawy, “ **Use of Solid By-Products in Wood/Cement Blocks** ”, presented in 7th annual East Tennessee Environmental Conference: Health, Industry, Economics, Environment, held in Meadowview Conference Resort and Convention Center, Kingsport, Tennessee on March 18th & 19th, 2008.
2. K. M. Ibrahim and A.H. ElSawy, “ **Influence of Graphite Morphology and Matrix Structure on Fatigue Strength and Wear Resistance of Ductile Cast Iron**, “ Ductile Iron Society annual meeting to be held in Birmingham, Alabama, June 21-23; 2006.

Graduate Studies

1. Justin Stacy, “Toward Autonomous Mobile Robotic Welding: Theoretical Development and Empirical Validation”, Ph.D. in Engineering, Tennessee Technological University, August 2012, (committee member with Dr. S. Canfield; Dr. D. Wilson; Dr. Hwan-Sik Yoon).
2. Padmanabhan Kumar, “Modeling and Development of a Tool to Aid in the Design of Tracked Mobile Climbing Robots on Curved Surfaces” M.S. Thesis in Mechanical Engineering, May 2012 (commit-

tee member with Dr. S. Canfield and Dr. D. Wilson)

3. Chinere P. Mbachu, “Degredation of Humic Acids in Aqueous Solutions by Pulsed Corona Discharges” M.S. Thesis in Chemical Engineering, Tennessee Technological University, December 2010 (committee member with Dr. P. Arce; Dr. D. George; Dr. M. Wells; and Dr. J. Gunderson).

Professional Organizations Membership

1. Sigma Xi the Scientific Research Society: President of TTU’s Chapter for the year 2007-08.
2. Past member of American Society for Manufacturing Engineers (SME) – (Chair, Chapter 200 of the Upper Cumberland Plateau years 2004, 2005, and 2006).
3. American Welding Society (AWS).
4. American Association of Industrial Technology (NAIT) – Accreditation visiting Team Member.
5. Society of Automotive Engineers (SAE) – Co-advisor for TTU’s Formula SAE Club.
6. NASA Moonbuggy Team Advisor.



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