

ورقة العمل رقم -٧

سبل التعاون مع جمعية العلماء المصريين
بأمريكا وكندا AEAS

تقديم

أ.د. محمد عطا الله رئيس جمعية العلماء المصريين بأمريكا وكندا



Association of Egyptian-American Scholars (AEAS)

<http://www.aeascholars.org>

**Collaboration Mechanisms for Engineering Education reform
Engineering Sector Council - Supreme Council of Universities,
Ministry of Higher Education and Scientific Research**

by

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President, Association of Egyptian American Scholars

Oct. 26th, 2009

I- Background

The Association of Egyptian-American Scholars (AEAS) in the United States and Canada was formally established and officially incorporated in the State of Wisconsin in 1974. Since then AEAS 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. Through its mission, AEAS has been very active in the past five years with the Ministry of Higher Education and Scientific Research in different programs.

II- Proposed Mechanisms

AEAS Engineering members have proposed the following mechanisms as potential approaches for collaboration with the Engineering Sector Council. Many of the proposed mechanisms are currently in place on individual basis and AEAS wishes to institutionalize this level of collaboration.

1- Graduate Research and Ph. D. Committees

Co-Supervision of graduate research and serve as External International Examiners on Ph.D. Committees in Egypt. Also, support the direct recruiting of exceptional qualified teaching assistants and graduate students into graduate programs in the U.S. and Canada. In addition, inviting faculty members of Egyptian universities to a limited term visiting faculty and research positions.

2- Faculty Promotions

Participate as External Referees on the Faculty Promotion Committees to review their Scientific Contribution.

3- Distance Learning

Contribute to the creation and development of new distance learning programs and also participate as instructors to deliver these programs.

4- New Engineering Programs

Participate in the development of new programs curricula and also the evaluation and validation of the developed ones. (i.e. Energy Conservation, Energy Management, green technology in engineering, etc..)

5- Faculty Accreditation and Quality Assurance

Provide Orientation Sessions, Increase Awareness, Review Documentation, provide advise, Strategic Planning, deliver workshops.. etc..

6- Continuing Education and Skill Development

Deliver training workshops to faculty and graduate students in different topics as required , Teaching Effectiveness, Management and Leadership, Strategic Planning, Course Evaluations and Assessments and intensive courses (e.g. 3-hour a day for a period of two weeks) to graduate students across the country which will enable the students to get up to date information on new issues.

7- International Scholarly Conferences

Organizing high level international scholarly conferences in Egypt including the AEAS conferences and other conferences such as IETA – the International Conference on Industrial Electronics, Technology & Automation; CISSE- International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering; ASEE-American Society for Engineering Education, and REV-Remote Engineering and Virtual Instrumentation. Also inviting participation of our colleagues in Egypt either as members of technical committees, reviewers or authors in international conferences that we organize

8- Scientific Journals

Inviting our colleagues in Egypt as authors, co-authors, reviewers or to serve on the editorial boards of scholarly engineering journals. Also, AEAS members will participate with papers and as referees in Egyptian Engineering Journals in order to increase Egyptian Journals' strength and exposure

9- Funding Grants

Participating and partnering with Egyptian universities on potential joint grant proposals, for example, the NSF International directorate programs.

10 Joint Agreements

Executing bi-lateral agreements with Egyptian universities for faculty and student exchange, blended learning and joint programming. This is linked to the ABET and the CEAB accreditation.

11- Sharing of Experiences

AEAS membership are generally willing to provide advise and share experiences with the Engineering Sector regarding any initiative that is being considered on the road to reforming Engineering Education in Egypt.

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Association of Egyptian American Scholars

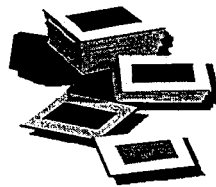
Engineering Sector Council – AEAS Future of Engineering Education

***Presented by
Dr. MOHAMED ATTALLA, P.Eng.***

President, AEAS

Oct. 26th, 2009

Agenda



- ***Background***
- ***Collaboration Mechanisms.***
- ***Contributors.***

Background



- **History of AEAS**
- **Missison** (*To create a forum for North American Egyptian scholars that facilitates dialogue and promotes partnerships with Egyptian counterparts to implement beneficial scholarly endeavors*).
- **Previous collaborative efforts.**

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Collaborative Mechanisms (1)

- **Graduate Research and Ph. D. Committees**
- **Faculty Promotions.**
- **Distance Learning**
- **New Engineering Programs**

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Collaborative Mechanisms (2)

- ***Faculty Accreditation and Quality Assurance***
- ***Continuing Education and Skill Development***
- ***International Scholarly Conferences***
- ***Scientific Journals***

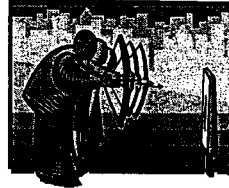
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Collaborative Mechanisms (3)

- ***Funding Grants***
- ***Joint Agreements***
- ***Sharing of Experiences***

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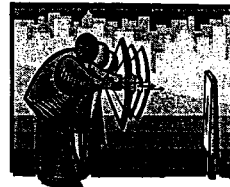
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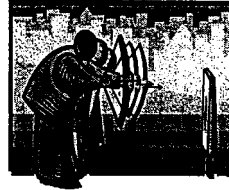
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THANK YOU

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