



EE VISION

IEEE — UAE SECTION NEWSLETTER

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Chairman's Message



We are back again to introduce to you the second issue of "EE Vision" newsletter. According to the title, we need to have a **vision**. A **vision** that directly affects the society at large. A **vision** that seeks prosperity. A **vision** that fosters creativity and innovation. A **vision** that cares about the well-being of the human being. This exactly meets **IEEE's vision** which states:

"IEEE vision is to advance global prosperity by fostering technological innovation, enabling members' careers and promoting community worldwide"

Our mission is to reach this **vision** by promoting the engineering process of creating, developing, integrating, sharing and applying knowledge about electro-technologies and sciences. This engineering process promotion is achieved through publishing periodicals, books, standards, conference proceedings, electronic products and mixed media. For your information, **IEEE** produces nearly 30% of the world's literature on electrical engineering, electronics and computing. **IEEE** organizes more than 300 annual conferences and has developed more than 700 standards. **IEEE** comprises of 36 technical societies and 2 technical councils.

IEEE UAE Section organized many technical activities this year out of which 8 were technical seminars, one was Annual General Meeting (**AGM**), one was an industrial visit to Dubai Cable Company (Ducab) and one was the International E-Learning Symposium. The technical seminars included Web based applications, digital signal processing, wireless networks and electric motor drives technology. Elections were held in the **AGM** and the elected officers are listed in the left column of this issue.

The first newsletter was an introductory issue that mainly dealt with articles prepared by **IEEE UAE Section** officers. Publishing the first issue was a success in informing our readers of our electro-technological contribution to the society. It is very important for the **IEEE** members to share with us and contribute to the newsletter with articles related to electrical & electronic engineering that will serve UAE society. We hope that the newsletter will widen the knowledge spectrum of **EE** profession and strengthen the bonds among electrical engineers.

Dr.Eesa Bastaki, Chairman, IEEE UAE Section

From the Editor's Desk:



The rapidly growing economies depend more on the creation, acquisition, distribution and the use of knowledge. Knowledge and information are thus becoming the key drivers of international competitiveness and for creating wealth and social welfare. One of the pillars of a knowledge-based economy is indicated as an effective innovation system comprising a network of companies, research centers, universities, think tanks, consultants and other organizations that can tap into the growing stock of global knowledge, assimilate and adapt it to local needs and create new knowledge or technologies. (From a WB Report).

UAE Section under Prof. Bastaki's leadership is conscious of the role of **IEEE** in the dissemination and use of electro technology and related knowledge in this country. This is evidenced by the enhancement of Section activities and steady rise in the membership in recent years. The Section is also developing schemes to attract more student members to its fold. The Section has recently started two new Chapters; one for Power Engineering and the another for Computer. The efforts are afoot in the creation of more Chapters, Student Branches as well as a Sub Section in Abu Dhabi. These steps will help to spread the technical activities to all corners of the Emirates. We look forward to creative suggestions and active involvement of all the members in imparting dynamism to the Section activities.

Eng. A.Suhair, Chairman, Newsletter & Publications

IEEE UAE Section Activities -2002

An Overview



The year 2002 witnessed unprecedented acceleration in the activities of the Section which enthused more member participation. Since the membership is distributed across the country, meetings were organized in different Emirates to facilitate attendance of more members. This experiment was well received and gave the EXE-COM encouragement to follow the strategy. The current figure of active members is around 600 which is more than one-third of the membership in 2001. Following is the gist of activities organized this year:

SI No	Date	Subject	Speaker	Organization	Venue
1.	27 March	Web Based Monitoring and Control of Industrial Plant	Dr.Abdul Rahman Al Ali	American University of Sharjah	American University of Sharjah
2	22 May	Artistic Applications of Digital Signal Processing	Prof. Hussain Al Ahmad	Etisalat College of Engineering, Sharjah	Society of Engineers, Sharjah
3	03 June	The Why & What of UPS	Eng. Duraid H. Ali	United Arab Shipping Co. Dubai	Society of Engineers, Sharjah
4	01 Oct	Artistic Applications of Digital Signal Processing	Prof. Hussain Al Ahmad	Etisalat College of Engineering, Sharjah	UAE University, Jimmy Campus
5	15 Oct	Industrial IT and Modern Electric Motor Drives Technology	Mr. Gary Foote	ABB	UAE University, Jimmy Campus
6	28 Oct	Frequency Response and Recovery Voltage Measurement in Transformer Condition Monitoring	Prof. Syed M. Islam	Curtin University of Technology, Perth, Australia	American University of Sharjah
7	30 Oct	Wireless Network – Today & Tomorrow	Mr Stanislaus Boisset	3 COM	Ajman University Abudhabi Campus

In addition to the above technical talks the following symposium/social functions were also organised:

- International E-Learning Symposium on 12th and 13th May 2002 at Al Bustan Rotana Hotel, Dubai organized by the College of IT in Collaboration with IEEE UAE Section.
- Visit to Dubai Cable Company (Ducab) on 17th Oct 2002.
- IEEE Computer Society formation on 5 June 2002 at Intercontinental Hotel, Al Ain.

IEEE UAE section has forged ahead to maintain good interaction among the academia, industries and utilities for the advancement and welfare of the society.

A.G.Hareendralal, Secretary, IEEE UAE Section



Mr. Stanislaus, Technical Manager, 3 Com makes the presentation in the Ajman University Auditorium, Abu Dhabi



A section of the audience



A participant wins prize

Success - In their eyes

That man is successful who has lived well, laughed often, and loved much, who has gained the respect of the intelligent men and the love of children; who has filled his niche and accomplished his task; who leaves the world better than he found it, whether by an improved poppy, a perfect poem, or a rescued soul; who never lacked appreciation of earth's beauty or failed to express it; who looked for the best in others and gave the best he had.—[Robert Louis Stevenson](#)

A successful man is one who can lay a firm foundation with the bricks others have thrown at him.—[David Brinkley](#)

Don't aim for success if you want it; just do what you love and believe in, and it will come naturally.—[David Frost](#)

Try not to become a man of success, but rather try to become a man of value.—[Albert Einstein](#)

Scenes from Annual General Meeting (AGM)-2001



From Left : Mr.Jonathan Vail, Mr.Farid Mohammed Ahmed, Dr.Eesa Bastaki, Mr.A.Suhair, Mr.Syed Riazul Hassan



A section of the distinguished audience

AGM-2001 was held on 10th January 2002 at the Metropolitan Hotel, Dubai. About 100 members from various parts of the Emirates participated in the event. **Dr.Eesa Bastaki**, Section Chairman presented the report and accounts for the year. Office bearers for the year 2002 were elected. Members expressed their views to strengthen the activities of the Section. **M/s Ducab, Dubai** hosted the event and a grand dinner thereafter.

International E-Learning Symposium

In celebrating the 25th anniversary of the United Arab Emirates University, the College of Information Technology (CIT) organized the International E-Learning Symposium in Dubai on 12th and 13th of May 2002 at Al-Bustan Rotana Hotel. The event was co-sponsored by IEEE UAE Section. The E-learning symposium involved intensive activities such as seminar presentations, workshops, round-table and panel discussions. H.H. Sheikh Nahyan Mubarak Al Nahyan Minister of Higher Education & Scientific Research delivered the opening address. Prof. Owen F. Gaede from Florida State University, Dr. Chong-wei, Kennesaw State University and Dr. Anup Kumar, University of Louisville were among the distinguished keynote speakers. The symposium theme was organized over four tracks:

- E-Learning in UAE and the GCC
- E-Learning Management
- Tactics and Technologies in E-Learning
- Delivering Meaningful content for E-Learning

Researchers from different parts of the world participated in different activities which included 35 research presentations, 5 workshop sessions and 2 discussion platforms. International experts in the E-learning area conducted the workshop tutorial sessions. The theme of round table discussion was 'Collaborative E-learning among GCC universities'. About 500 people attended the opening ceremony, and around 200 people who had registered in the symposium contributed to its activities.

Dr.Mohammed Samaka and Dr.Eesa Bastaki

Industrial Visit to Ducab



A visit of the members of IEEE and other engineering community in UAE was organized by the Section to the Dubai Cable Company on 17th October as part of its effort to promote industrial interactions. Ducab is a leading manufacturer of power cables (up to 33 kV voltage) in the Middle East. About 50 engineers participated in the tour.

Ducab arranged a technical seminar in the morning to explain the new trends in cable technology, their range of products and quality control measures. Mr. Colin Paskins, Managing Director and other senior managers addressed the participants and answered their technical questions. The participants were then taken around the shop floors to witness the manufacturing and testing and quality control procedures.

M/s Ducab also hosted a lunch and presented souvenirs to all the participants. It was a memorable visit to cherish.

Prof. Eweda, the new IEEE Fellow from the UAE Section



IEEE UAE Section congratulates Professor Eweda on his elevation to the status of IEEE Fellow in January 2002, in recognition of his outstanding contribution to the theory of adaptive filtering. Professor Eweda is the second fellow in the UAE Section.

Professor Eweda I. Eweda was born in Kena, Egypt, on October 13, 1950. He received the B.Sc. degree in 1973, the M.Sc. degree from the Military Technical College, Cairo, Egypt, in 1977, and the Ph.D. and Doctor of Science degrees from Paris XI University, Paris, France, in 1980 and 1983, respectively, all in Electrical Engineering. Till the year 2000 he has been a professor and chairman of Electrical Engineering at the Military Technical College, Cairo, Egypt. Currently, he is a Professor and the Chairman of Electrical Engineering at Ajman University of Science & Technology, United Arab Emirates. He is the author of a rich sequence of insightful journal papers on adaptive filtering algorithms. His papers are well recognized and widely referenced by the international community. He was the first to establish the convergence of the least mean square algorithm without the independence assumption of the input data and the bounding barriers on the data and filter weights. He also provided deep analyses of the signed algorithms that represent a significant progress with respect to prior analyses, which were only heuristic. He provided a lot of technical consultations to various entities dealing with signal processing and communications. Professor Eweda received the State Award of Engineering Sciences, a highly outstanding Egyptian scientific award, in 1992 and 1999. He is also the recipient of The First Degree Medal of Excellence from the President of Egypt.

IEEE News—From Far and Near

IEEE Region 8 Meeting

78th Region 8 Meeting was held in Budapest from 18-21 April 2002. Eng. Hareendralal, Secretary, represented the UAE Section in the meeting. It was decided to increase Region 8 activity in Standards work through membership of the Standards Association and to maintain IEEE's role in world standards. Close co-operation with the Industry Relations Committee would also be sought. Every Section was being asked to appoint an Industry Relations Officer. A Charter was drawn up for Industry Relations in Region 8. The Region 8 Committee is requested to approve a 1-year pilot project to investigate if publicity and advertising can improve recruitment and retention. The Region 8 Committee authorized Jose Delgado to initiate a project for identifying IEEE member needs in emerging technologies.

IEEE Student Branch Activities

Congratulations

Mr. Mohammad Al-Qedrah, a senior electrical engineering student from American University, Sharjah is one of eight students to win an International research scholarship from the prestigious Institute of Electrical and Electronics Engineering (IEEE) on a world wide competition. The title of his proposal is "Analysis of The Near-Field Pattern Including Higher-Order Modes of An Open Ended Rectangular Waveguide Developed for Microwave Imaging". Mr. Mohammed will be conducting his research under the guidance of Dr. Nasser Qaddoumi.

Mr. Mohamed Tayeb Ghasr, a senior electrical engineering student from American University, Sharjah, was awarded **first** prize, in the 2002 Myron Zucker Industry Applications Student Design Contest (held annually in USA) on his senior design project "Microwave Far-Field Detection and Evaluation of Disbonds and Cracks in Concrete Structures." The competition was held world wide and awards were given to the top 3 designs. Mohamed conducted his senior design project under the supervision of Dr. Nasser Qaddoumi.

Ms. Noor Shabib of American University of Sharjah represented the Section in the Students Congress 2002 held in Cairo.

Formation of IEEE Computer Society Chapter

A meeting of the newly formed IEEE-Computer Society Chapter was held on 5th June at Al Ain Intercontinental Hotel and elected the following members as office bearers of the Chapter.

Chairman: Dr. Mohammad Samaka, CIT, UAE University.

Vice Chairman: Dr. Hussain Al-Ahmad, Etisalat College of Engineering, Sharjah.

General Secretary: Dr. Jauhar Ali, CIT, UAE University.

Treasurer: Dr. Hassan Barada, Etisalat College of Engineering.

IEEE Section Congress & Region 8 Meeting

79th IEEE Region-8 committee meeting was held on 17th October at JW Marriot Hotel, Washington, DC, USA. 72 members from various Sections under Region 8 participated. Region 8 Committee approved the Strategic Operation Plan.

Followed by the Region meeting, IEEE Section Congress -2002 was held from 18-21 October 2002. The slogan for the Section Congress was " **Creating a Global Community** ". 659 members including IEEE staff attended the events.

Eng. K.S.Taj, Treasurer represented the Section in the Region 8 Meeting and Section Congress.

EXECOM Meeting

EXECOM met five times during the year to transact business plans of the Section. Four of the meetings were held in Dubai and one in Abu Dhabi.

Annual General Meeting (AGM) - 2002

The AGM-2002 is proposed to be held on the **9th of January 2003**. The venue, on finalization, will be communicated to all members.

Season's Greetings

EXECOM of UAE Section sends Ramadan, Eid, Xmas and New Year Greetings to all our esteemed readers and well wishers.