In the old days reliability was simply an attribute of good basic engineering. Then the more complex electronic equipment began to show such low equipment reliability that more than joint basic engineering practices were necessary. Thus was born the new field of reliability engineering. The coming of solid state electronics and the ever increasing complexity of both equipments and parts brought about advances in reliability physics to ferret out cures at the micro effects level for failure prevention. Then the more complex electronic equipment began to show such low equipment reliability that more than joint basic engineering practices were necessary. Thus was born the new field of reliability engineering. The coming of solid state electronics and the ever increasing complexity of both equipments and parts brought about advances in reliability physics to ferret out cures at the micro effects level for failure prevention. This return to physics has brought Reliability Engineering back again to a greater understanding and application of basic engineering disciplines. The increasing use of digital equipment and software necessitated the advance on software reliability work which is really a basic engineering problem of design adequacy. And in order to determine optimum stress screening profiles, one must consider the effects of many stresses, such as temperature, temperature rate of change, random, vibration, etc.

Thus during the 70's traditional reliability engineering and basic engineering were gradually being merged, forming a new direction for the 80's.

The theme for EUROCON '82 is "Reliability in Electrical and Electronic Components and Systems", and the Conference is of importance to all concerned with research, development, manufacturing, application and marketing reliable electrical and electronic components and systems, and the Conference is of major interest also to all concerned with the education and training of reliability personnel. This can be seen from the technical programme shown in detail in the Advance Programme available from the Conference Office (see address below). The technical part of the Conference consisting of a tutorial course, keynote addresses, plenum sessions and 6 or more or less parallel specific sessions incl. invited speakers runs from 09.00 a.m. till 06.00 p.m. which may seem overwhelming even to the most trained individual. The Local Arrangement Committee foresees that some sort of selection must take place, and in view of this, the Committee has planned a "recreation area" where the delegates can spend their spare time during the day hours. This area will be in the main conference building and will consist of the exhibition stands, poster session stands, lounges for smaller and bigger groups to discuss topics of mutual interest, and service facilities such as bank, post office, travel agency and information desk.

Following the conference opening addresses conference participants and accompanying persons are invited to an informal get-together, where canapés and draught beer will be served. In the evening of the third day of the conference the City of Copenhagen invites delegates and accompanying persons to a reception and buffet at the Copenhagen City Hall, and after that there will be free admittance to the Tivoli just beside the City Hall. And even though Copenhagen in June should need no further promotion, a special programme has been made for accompanying persons, including tours in and around Copenhagen and visits to places where Danish Design is created.

The conference fees are as follows (the first figure applies to those who register before May 1st): Members of IEEE and of National societies which are members of EUREL -- Dkr. 1800/2200: non-members D.kr. 2200/2500; Students D.kr. 850/850. Conference Proceedings, 3 days' lunches, a social get-together and a City Hall/Tivoli arrangement are included in the conference fees. Accompanying persons are also invited to these two social arrangements.

Registration forms, advance programmes and further information on all aspects of EUROCON '82 -- Technical Programme, Tutorial Programme, Technical Exhibition, Students Programme and Social Programme -- are available from Mrs. Aase Sonne at the Conference Office, DI EU, The Technical University of Denmark, Bldg. 208, DK-2800 Lyngby, Denmark -- telephone 45-(0)2882300 (telex 37529 DTHDIA DK).

City Hall Copenhagen

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The Parthenon in the Acropolis of Athens

Preparations for Melecon '83 are in full progress. This second Mediterranean electrotechnical conference is scheduled for May 24-26 1983 in Athens. Sessions will take place in the Athens Hilton, situated in the centre of the city within walking distance of the Acropolis and main places of interest. All major topics in electronics, computing and power engineering will be covered with special emphasis on solar energy and wind power research and applications. All graduates under 28 are welcome to take part in the Young Engineer Contest, which will be held on the basis of papers accepted for publication. The annual IEEE Region 8 Student Paper Contest will also be included in the conference.

Spring time is the best season for Greece and visits to archaeological sites on the mainland and the islands are planned for the participants and their accompanying persons. Other events and social gatherings will provide the opportunity for scientific interaction as well as acquaintance with ancient, medieval and modern Greek cultural life.

Prospective authors are invited to submit titles and 200-word summaries for consideration for presentation. The Technical Programme Committee will select the final programme. The official language is English. Participation in the programme is conditional on receipt of the photo-ready paper by 30 January 1983. The schedule for the authors is:
- Notification of acceptance - 30 September 1982
- Submission of photo-ready paper - 30 January 1982

For all information, registration forms, submission of summaries and papers, please write to:
MELECON '83 Secretariat
c/o Prof. E. N. Protonotarios
National Technical University
42 October 28 Street
Athens (147) Greece.

REPORT FROM THE REGIONAL DIRECTOR

Dear Members of Region 8:
I am pleased to be able to tell you that excellent progress is being made on EUROCON '84, to be held on 20-26 September 1984 with the theme of Computers, Communications and Control. Dr. John Brown called the first Conference Steering Committee meeting in February, and Dr. G. H. Byford, Mr. B. W. Osborne, Mr. C. R. Russell, and myself took part as the permanent IEEE representatives on the Committee. On this occasion we visited the site of the Conference in Brighton, England, and I was most impressed with the facilities. We are fortunate in having the support of the Conference Secretariat of the Institution of Electrical Engineers, which has had long and broad experience in organising conferences of this kind.

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I attended a meeting of the Organising Committee for the International Communication Conference – ICC '84 – chaired by Dr. K. Teer of Philips Research, Eindhoven, The Netherlands. This Conference will be held in Amsterdam on 14–17 May 1984. One of my objectives is to assist in harmonising the topics and speakers at this Conference with the topics and speakers for EUROCON '84.

The decision of the Region 8 Committee, at its meeting in May 1981, to appoint a Committee member with responsibility for conference co-ordination, has proved a wise decision. Dr. J. Baal-Schem, who was appointed to this new responsibility, has already been able to improve the co-ordination of conference dates, and to reduce the possibility that conferences with similar themes are held without a proper interval between them. I believe that as his work develops he will continue to reduce the conflict over conference arrangements which arises from time to time between the IEEE and national societies. In addition Dr. Baal-Schem is providing our members for the first time, through the

NEWS OF THE SECTIONS

In this issue, the sequence of annual articles from the Sections is continued with the following contributions from Finland, Norway and Yugoslavia. In addition, a report is included from the newly formed Portugal Section.

Finland Section (Chairman: Dr. Olli Simula)
The change of Section Chairman at the end of the report period (June 1981-January 1982) gave occasion to reflect on the last three years and to consider possible new demands for the future.

The above matters were discussed at the annual meeting on January 6 under the title “Quo vadis IEEE Finland Section?” The discussion, to which present and past Section officers were invited, was led by our past Chairman Johan Tallqvist. A large number of members participated.

Generally speaking, the present activities were considered satisfactory. The outstanding technical journals of IEEE were still considered the primary motivation for membership. The activities should be inter-nationally oriented, and not compete with the programmes of the national EE societies. In this respect lectures by foreign specialists are required, a wish that can be forwarded to the IEEE Continuing Education services.

Newsletter, with information on conferences planned to take place in Region 8. I welcome very much his contribution to our member services.

At the end of this year Mr. M. A. Giddings will hand over his appointment on the Region 8 Committee as appointed representative for continuing education to Professor K. Goser of Fern University (Open University), Izselohn, Federal Republic of Germany. I am delighted to welcome Professor Goser to our Committee. The continuing education services which the IEEE can usefully provide for members in Region 8 are something of a problem area; they are very different from the services required by members in the U.S., because for many members in Region 8 the major continuing education needs are provided to a large extent by the national societies. In addition, the continuing education needs of members in different Sections in Region 8 vary very greatly. I should like to thank Mr. Giddings for the great deal of work he has done during his term of office; an important part of it has been to determine what continuing education services the IEEE can usefully provide to each Region 8 Section. I am sure that Professor Goser will make further progress by building on this foundation.

I was once again the guest of the Institution of Electrical Engineers at their Annual Dinner in London last February. I get particular pleasure from this invitation because for me it represents the success of our efforts to maintain understanding and a good working relationship with national societies in general and with the Convention of National Societies of Electrical Engineers of Western Europe (EUREL) in particular.

It is some time since I received news of activities in our Iran and Poland Sections. I regret this very much, but I am hoping that the Chairman of these two Sections, or their representatives, will attend the next meeting of the Region 8 Committee to be held near Copenhagen on 19-20 June, on the conclusion of EUROCON '82.

Sincerely,
WALTER E. PROEBSTER,
Boeblingen, Federal Republic of Germany.
Mr. Stig Skelboe, Chairman of the IEEE Denmark Section, has suggested that this new book might interest readers of the IEEE Region 8 Newsletter.

The book is presently being distributed to English-speaking friends and associates of the Danish company Bang & Olufsen A/S. However, Bang & Olufsen has promised to make a limited number of copies available, free of charge, to IEEE members. Any such request should be addressed:

Department of Communication
Bang & Olufsen A/S
DK-7600 STRUER
denmark.

Some remarks on the book made by Mr. O. J. Franksen: Ørsted's own activities as a scientist made him realize that to create "pioneers" the educational system must be geared towards making the students active. Thus, he emphasized the teaching in experimental laboratories and the importance of joint research projects with industry. Indeed, as he saw it, industry was the ultimate challenge and the inexhaustible source of inspiration. Because it is in industry that theory is confronted with reality.

Ørsted's discovery of electromagnetism is usually identified with July 21, 1820, being the date of publication of his Latin pamphlet. However, in the literature it is often deplored that it is not known when, in the preceding winter, the initial experiments were performed. Yet, this lack in the literature it is often deplored that it did not exist. Simultaneously, however, it must be deplored that so true generalist. Simultaneously, however, it must be deplored that so true generalist. Simultaneously, however, it must be deplored that so true generalist. Simultaneously, however, it must be deplored that so

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New Management Post

The following information became available in February 1982.

Eric Herz, IEEE General Manager and Executive Director, announced that Elwood K (Woody) Gannett has been appointed Deputy General Manager of the Institute. Mr. Gannett will continue to serve as Staff Director for Publishing Services temporarily until a successor is named. His IEEE career began in 1946 as Assistant to the Executive Secretary of the Institute of Radio Engineers, a predecessor society of the IEEE. After 34 years of exceptional service to the institute, Emily Sirjane, Staff Director of Corporate Services, retired on December 31 1981. To carry on the functions of the department, Betty Stillman has been appointed Manager of Corporate Services with responsibility for the Corporate Services staff. She will report to Mr. Gannett.

Mr. Herz has also announced the appointment of Donald E. Suppers as Staff Director for Field Services. He fills the position formerly held by Patricia Lech, now the wife of Region 6 Director Frederick Suffield.

Mr. Suppers most recently served as dean of academic affairs and professor of mathematics at Mercer County Community College in New Jersey.

IEEE Fellows Elected

The following list names the Fellows who were elected on 1 January 1982 and gives the citation for each:

Benelux

Patrick M. Dewilde

For contributions to network theory, especially the synthesis of scattering matrices.

Paul G. A. Jespers

For leadership in microelectronics research, development and education.

Simon Middelhoek

For contributions to the theory of magnetic thin films and to magnetic and semiconductor technologies and for leadership in engineering education.

France

Claude H. Gary

For contributions to the understanding of corona and field effects in high-voltage power transmission.

Ferdy P. M. Mayer

For contributions to the theory of ferromagnetics and to the development of materials for the suppression of electromagnetic interference.

Michel E. Poloujadoff

For contributions to the theory of electrical machinery, especially single-phase and linear induction motors, and for leadership in advancing engineering education.

Germany (West)

Manfred Boerner

For contributions to telecommunications, for technical leadership in optical communication devices and for developments of mechanical frequency filters.

Peter Noll

For contributions to adaptive quantization and coding of speech signals.

Norway

Olav S. Johansen

For leadership and contributions to international research and standardization of high-voltage equipment and systems.

Israel

Dov Frohman-Bentchkowsky

For the development and understanding of programmable non-volatile MOS memories.

Abraham Lempel

For contributions to the theory of data compression, the practice of data compression, and the algebraic analysis and synthesis of digital sequences.

North Italy

Elio Occhini

For contributions to cable technology for EHV and UHV electric energy transmission.

Sweden

H. Bertil Thorén

For advancing the understanding of the design and operation of equipment for ultra-high-voltage power transmission systems.

United Kingdom and Republic of Ireland

Alistair G. J. MacFarlane

For contributions to control engineering and to the development of frequency domain techniques for linear multi-variable feedback systems.

Edwin D. R. Shearman

For contributions to backscatter radio propagation studies.

Eric P. Wohlforth

For contributions to the theories of fine-particle ferromagnetism and the properties of electrons in metals.

Award of Bendix Grants

One of the eight Student Branches given congratulations for their winning proposals was the Branch at Eindhoven University of Technology.

MEETINGS IN REGION 8

Summer School on Satellite Communication Antenna Technology

This five-day school is to be held from August 23 to August 27 1982 at Eindhoven University of Technology, Department of Electrical Engineering, Eindhoven, Netherlands, in co-operation with IEEE Benelux and the University of Illinois, USA. It is for communication systems analysts and designers, technical managers and others engaged in the design of satellite communication systems, spacecraft antennas and earth-stations. Underlying concepts governing design and system architecture are presented with a detailed description of specific techniques including multiple beams, frequency reuse, polarization control, beam shaping, dual shaped reflectors, adaptive and phased arrays, deployable reflectors and earth-stations.

Applications of these current state-of-the-art techniques to the upcoming generation of satellites, such as L-SAT, are illustrated.

Additional information from: Dr. Eduard J. Maanders, Department of Electrical Engineering, University of Technology, Eindhoven, Netherlands. Phone (040) 473 427 or 473 447.

8th Symposium on Microprocessing and Microprogramming

EUROMICRO 82 will be held September 5–9 1982. It is the eighth annual symposium organized by EUROMICRO, the European Association for Microprocessing and Microprogramming. EUROMICRO has held its previous conferences in Nice, Venice, Amsterdam, Munich, Göteborg, London and Paris. In 1982, Haifa, Israel, has been chosen as the venue. The purpose of the EUROMICRO Conference is to bring together practitioners and theoreticians from industry, government and academia who are interested in all problems relating to the underlying concepts and the use of microprocessing and microprogramming.

Authors are invited to submit original papers on recent and novel developments in all aspects of microprocessing and microprogramm- ing. Topics will include, but will not be limited to, the following:

- System architecture
- Hard-/software tools
- Interfacing and communication
- Network structures
- Firmware and microprogramming
- Education
- Social and economic aspects

The structure of the symposium will consist of three types of sessions:

Scientific sessions, which will accommodate invited and submitted papers, reporting on significant developments in the symposium areas.

Short notes sessions, allowing for very up-to-date, yet brief presentation of significant results and applications.

Industrial sessions, co-ordinated with international exhibitions and presenting the most recent industrial developments and production activities.

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4th International Conference on Ion Implantation

The 4th International Conference on Ion Implantation: “Equipment and Techniques” will be held on September 13-17 1982, at the convention centre in Berchtesgarden, Germany. This conference immediately follows the conference “Ion Beam Modification of Materials” (IBMM) in Grenoble, France, and includes a school on practical aspects of ion implantation.

The main conference begins on September 14 1982 and ends on September 17 1982, the school begins on September 13 1982 and ends on September 15 1982.

The conference will emphasize the scientific and engineering problems in the design and use of ion-implantation equipment, as well as the application of ion implantation in semiconductor technology and tribology.

Three types of sessions will be held:

(a) invited talks,
(b) contributed papers, and
(c) poster sessions.
The subjects covered by the contributions include: Model·
"electrons" were derived from Hebrew. What he did say was that "electron" does stem from the Greek language. Having been present at the opening session of MELECON 81 and being fluent in both English and Hebrew, I think I can clear up the misunderstanding.

Dear Sir,

I refer to Mr. R. C. Winton's report on MELECON 81 in the August 1981 issue of the Region 8 Newsletter, and to the letter of Messrs. Petritzi, Afrati, Stasinopoulos and Sykas in the November 1981 issue. My learned Greek colleagues' statement is correct and the word "electron" does stem from the Greek language. Having been present at the opening session of MELECON 81 and being fluent in both English and Hebrew, I think I can clear up the misunderstanding.

President Navon did not say in his opening address that the word "electron" does stem from the Greek language. Having been present at the opening session of MELECON 81 and being fluent in both English and Hebrew, I think I can clear up the misunderstanding.

Further information:
Dr. Heiner Ryssel
Int. Conference on Ion Implantation
Institut für Festkörpertechnologie
Paul-Gerhardt-Allee 42
8000 München 60 Germany.

1982 Journées d’Électronique – Optoelectronics

The "Journées d’électronique de l’EPFL" is an annual international conference held at the Swiss Federal Institute of Technology (Ecole Polytechnique Fédérale) in Lausanne and co-sponsored by the IEEE Switzerland Section. Official languages are French and English, with simultaneous translation provided. The aim of this symposium is to review the current status, discuss the future trends and present innovative ideas or results on a subject of timely interest in the electronic field.

The next conference, to be held from October 5 to 7, 1982, will be devoted to the theme: Optoelectronics in telecommunications and measurement systems. The relevant optoelectronic fundamentals will be reviewed in a first tutorial day. The next two days will be devoted to special sessions on Optoelectronics in measurement systems and Optoelectronics in telecommunications.

Authors of tutorial or specialized papers on these subjects were invited to submit a proposal, based on a full text or a detailed summary, respectively, before 15 March 1982, to: Selection Committee, Journées d’électronique, EPFL, 16, chemin de Bellerive, CH-1007 Lausanne, Switzerland. Further information can be obtained from the above-mentioned address.

Letter to the Editor

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