

# IEEE Region 8 newsletter



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THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS  
INCORPORATED

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## REPORT FROM THE REGIONAL DIRECTOR

Since my last report I have taken part in three IEEE events, namely a Region 8 Committee Meeting in Madrid, Spain on December 9 and 10, 1977, a series of meetings in connection with a Board of Directors meeting at Miami Beach, Florida on February 16-20, 1978, and two UKRI meetings in London on February 21, 1978.

Before I give some highlights about these meetings I would like to tell about my big surprise on the way the Region 8 Members voted in the last election. Almost 40 per cent of the about 1,000 voting Region 8 Members voted for a Presidential candidate who has on his program to eliminate the transnational character of IEEE and convert it into an American national society. Also, about 25 per cent wanted to combine the regions outside the United States, Regions 7-10, into one Region, thus eliminating three for us very important votes on the Board of Directors. I was flabbergasted and disappointed to say the least. Something has to be done to try to inform the Region 8 Members earlier about the issues to be voted on. By the way, it appears that the Presidential candidate nominated by petition last time intends to run for the fourth time.



The items of interest of the Region 8 Meeting in Madrid have been well reported on in Newsletter No. 41 of January 1978. Also, in the same Newsletter there was a final report on EUROCON '77. I only want to add that I am also a member of the EUROCON '80 Steering Committee and that two reasons for the nice surplus of EUROCON '77, besides the high quality Proceedings (now available from IEEE, 445 Hoes Lane, Piscataway NJ 08854, USA), were the gift of \$2,500 that Professor Stumpers managed to get from URSI, and the industrial picture exhibition that was organized by our Italian friends. The sojourn at Miami Beach started with a Long Range Planning Committee Meeting on February 16. I was assigned to a study group on "Expansions of Professional Activities to Countries Outside the United States". I would appreciate it very much if Region 8 Members of different Sections would help me in sending me material on existing professional activities of their national societies, for example, code of ethics, implementation of the code of ethics, unions, registration, etc. Thank you. At the Regional Activities Board (RAB) Meeting on February 17 each Regional Director was asked to tell about the Region's plans for 1978. I talked about transnationality, technical excellence, finances, membership, student activities, and committee meetings. The Membership Committee, now part of RAB, supplied the following numbers (in per cent) of the membership changes during the last five years: Region 1, -3; R2, +2; R3, +11; R4, +8; R5, +14; R6, +9; R7, +26; R8, +24; R9, +51; and R10, +79. Thus a very healthy increase outside the United States and about status quo inside. Most of the other items at RAB were

brought up again at the Board of Directors (BoD) Meeting. On February 17 I attended part of the Technical Activities Board Meeting as an observer, and on February 18 I went to the Executive Committee Meeting also as an observer.

The big thing was the BoD Meeting on February 19 and 20. The main interest centered around the Implementation of the Code of Ethics. It consists of two parts (1) Revisions to Bylaw 112—Member discipline and support, and (2) New policy statement 7.15—Procedures for use by Member Conduct Committee. These two parts were approved with big majority. I voted against on grounds already stated in Newsletter No. 40 October 1977. What will now happen? Will the present statistics of one case of expulsion in about fifty years continue or will we see a sudden increase? Will the image of IEEE being a "learned society" fade away? Will the membership suddenly increase inside the United States? The principle of electing an Executive Vice President for a year and then let him automatically become the President the next year failed because of the requirement of a 2/3 vote. The designation Groups and Societies (G/S) will be replaced by Societies only. Professor John Tegopoulos, Greece, was appointed Member of the 1978 Fellow Committee, and I was elected Member of the Nominations and Appointments Committee. Dr. Jerome J. Suran was elected the Board's nominee for President for 1979, and Dr. Leo Young was elected the Board's nominee for Executive Vice President for 1979. Although there was a surplus of k \$617 for the Institute in 1977, and Groups and Societies had a surplus of k \$1145 the 1978 budget is a deficit one. The sales of books, especially of Standards, may not continue during 1978. Two important Bylaw revisions (to 106.2 and section 7 of 402.5) were approved in connection with membership. It is now sufficient to have one IEEE member holding Fellow, Senior Member or Member grade as reference for an applicant for Member grade who automatically meets the requirements for Member grade as specified in Bylaw 105.4a. The other revision concerns the term of office of Section officers and the following sentence has been added in section 7: "The consecutive period of service in any one office shall not exceed three years".

On my way back from Miami to Gothenburg I attended an Executive Committee Meeting and an Annual General Meeting of the UKRI Section at the IEE-building in London. After the second meeting Dr G H Byford, Royal Air Force Institute of Aviation Medicine, Farnborough, Hants, lectured on "Aviation Medicine", a lecture full of humour. New Region 8 Sections may still be formed in Austria, Russia, Turkey and Saudi-Arabia. Progress seems to be slow, however.

Gothenburg, Sweden, March 3, 1978  
E. FOLKE BOLINDER

## REGION 8 NEWS

### Election for Regional Director 1979-81

Two candidates have been nominated and the necessary election papers and supplementary information from them will be circulated in due course.

PUBLISHED QUARTERLY		JAN.	APRIL	JULY	OCTOBER
DEADLINES	News to Editor	Dec. 7	Mar. 7	June 7	Sept. 7
	Advertisements to County Secretarial Services	Dec. 15	Mar. 15	June 15	Sept. 15
	Delivery inserts to County Secretarial Services	Dec. 22	Mar. 22	June 22	Sept. 22

### New Flat TV Prize DM5000.—

A DM10000.— prize for the best 1977 technical development towards FLAT TV and HIFI TV were publicly announced in this Newsletter last July by a millionaire. The referees were from big industry. The prize was never retracted but was apparently not paid, despite numerous submissions from all over the world.

Prof Dr Albert G Fischer who is one of those who submitted entries has therefore stipulated a new prize of DM5000.— for the best technical development towards FLAT PANEL TV. This prize will be paid. Final deadline for submission is September 1, 1978. The winner will be announced on December 1. Sole judges are Prof Fischer and his group. Address: Department of Electrical Engineering, University of Dortmund, 46 Dortmund 50, West Germany.



## INSTITUTE NEWS

### Election of 1978 Officers

The Annual Assembly of the Institute elected the following new officers at its meeting in San Diego, November 17.

Dr Jerome J Suran, of the General Electric Company's Electronics Laboratories in Syracuse, New York, becomes Vice-President of Educational Activities. Dr Suran has served for two years as Vice-President of Publications. Dr Bruno O Weinschel of Weinschel Engineering Company in Gaithersburg, Maryland, will be the 1978 Vice-President of Professional Activities.

Dr Robert W Lucky, of Bell Laboratories in Murray Hill, New Jersey, has been elected Vice-President of Publications Activities. Mr Paul F Carroll, of Semiconductor Specialists Inc. of Elmhurst, Illinois, is Vice-President of Regional Activities. Mr Eric Herz of Convair Division of General Dynamics in San Diego is the new Vice-President of Technical Activities. Mr Robert D Briskman, of Satellite Business Systems in McLean, Virginia, was re-elected to the office of Secretary-Treasurer.

Mr Joseph L Kopefinger of the Duquesne Light Company in Pittsburgh will be the 1978 Director of Standards Activities.

Dr Richard M Emberson was re-elected Executive Director.

### Appointment of General Manager

Dr Richard M Emberson, who had been Acting General Manager of the IEEE, since mid-1977, has been named General Manager by vote of the Institute's Executive Committee. He also serves as Executive Director of the organization.

Dr Emberson has been associated with IEEE since its inception in January 1963, and previously was an official of the Institute of Radio Engineers, a predecessor society.

Throughout his career with IEEE, he has always been closely identified with Technical Activities, including the amalgamation of the AIEE and IRE technical entities into a unified system that has evolved into seven Technical Divisions, thirty-three Groups, Societies and Councils, a vigorous Standards programme. Dr Emberson was born in Columbia, Missouri, and attended the University there, receiving his MA and PhD degrees, the latter in 1936. He then spent three years as a post-graduate Bemis Fellow at the Harvard College Observatory; a bit more than a year at the Medical School, University of Pittsburgh, with an interdepartmental cyclotron project; and in 1941 joined the MIT Radiation Laboratory, where he worked throughout World War II, first on radar antennae and then on naval shipborne systems.

At the conclusion of World War II, he joined the Naval Research Laboratory, but left in less than a year to join the Secretariat for the Joint Research and Development Board, of which Dr Vannevar Bush was the first Chairman. Dr Emberson left the Department of Defence in 1951 to work with Dr Lloyd V Berkner, President of Associated Universities Inc., the nine-university organization that was created to operate the Brookhaven National Laboratory. Dr Berkner was then serving as Chairman of the IRE Nuclear Science Group and he appointed Dr Emberson as Secretary, the initial step of personal involvement that continued until joining the Institute staff eleven years later. While with AUI, Dr Emberson's principal reports were on a civil defence study, Project East River, and the exploratory step leading to the establishment of the National Radio Astronomy Observatory, Green Bank, West Virginia, which AUI also operates under a contract with the National Science Foundation.

Dr Emberson is a Fellow of the American Physical Society, and the American Association for the Advancement of Science, and is a member

of the American Astronomical Society, American Association of Physics Teachers, New York Academy of Science, and Sigma Xi, the honorary scientific society, as well as being a Fellow of IEEE. He and Mrs Emberson, the former Virginia Nicoll of Lakeland, Florida, reside in Huntington, New York. He claims to be a farmer, at heart, but has had little time for such hobbies in recent years.

### President Elect Concept Explored

The IEEE Board of Directors at its November 1977 meeting decided to recommend a Constitutional Amendment, to appear on the 1978 ballot, that would establish the office of President-Elect. Under the concept, the IEEE President would be elected one year before taking office, and would spend that year both as IEEE's current Executive Vice-President and as a "President-in-Training".

If this concept is approved by the membership, two sentences would be added to Section 1 of Article VIII of IEEE's Constitution reading: "During the first year immediately following election, the elected IEEE President shall be the President-Elect and Executive Vice-President. During the second year following election he shall serve as President." See the January 1978 issue of "The Institute" (p 3) for more information.

### Conference in Vienna

IEEE has been invited to participate in the 1979 UN Conference on Science and Technology for Development to be held in Vienna, Austria. Assigned to co-ordinate IEEE's technical inputs has been Staff Director Neil Pundit.

### Two Programmes Offered by the Continuing Education Department

The expansion of the Continuing Education Department is announced by the implementation of two short course plans designed for (1) IEEE Organizational Units and (2) In-House Training.

There are over 100 short courses organized for engineers and managers who want to remain "plugged-in" to new developments in the E/E field. Courses in business and management are also offered. Studies show that job performance ratings increased for engineers who attended short in-house courses sponsored by their company.

Under plan (1), the IEEE Continuing Education Department staff provides the instructor and prepares the bulk of the course details—promotion, accounting and other related arrangements. It is the responsibility of the organizational leader to help co-ordinate these efforts.

The In-House Training plan (2) offers similar technical assistance to meet the educational needs of engineers where they work. Special company-sponsored courses can also be developed for a specific training need. To take advantage of this educational opportunity, an organization or company must decide what course interests them. The Continuing Education Department will provide whatever assistance is required. The IEEE is constantly reviewing and evaluating advances in the E/E engineering field to assure their members and associates the most up-to-date information.

### Standards News

The second edition of the IEEE Standard Dictionary of Electrical and Electronics Terms has just been published.

A special introductory price of \$24.95 (\$22.45 for IEEE members) will be in effect for all orders submitted to IEEE on or before June 30, 1978.

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Thereafter, the price of the IEEE Standard Dictionary will be \$37.50 (\$33.75 for IEEE members).

Copies are now available from the IEEE Service Centre, 445 Hoes Lane, Piscataway, NJ 08854 (an additional \$2.00 shipping/handling charge must accompany each order submitted through IEEE); Wiley-Interscience, a division of John Wiley & Sons, Inc; and technical book stores.

## MEETINGS IN REGION 8

### 1978 International Symposium of Fault-Tolerant Computing

The Eighth Fault-Tolerant Computing Conference of the IEEE Computer Society will take place in Toulouse, June 21-23, 1978.

Topics relevant to the symposium include: (i) hardware and software architecture of fault-tolerant systems; (ii) evaluation of system reliability, performance and operational security; (iii) hardware and software design validation; (iv) detection and diagnosis of hardware and software errors; (v) testing for quality production; (vi) error recovery and system re-configuration.

Further information from: Comité d'Organisation du FTCS-8, 7 avenue du Colonel Roche, 31400 Toulouse, France. Tel. (61) 53.11.77—Telex. 520930 F LAASTSE.

### International Conference on Digital Signal Processing

This Conference is co-sponsored by IEEE Central-South Italy Section in co-operation with IEEE ASSP Society and others, and will be held at the Facoltà di Ingegneria, Università di Firenze, Florence, Italy, August 30-September 2, 1978. Papers are invited for this Conference devoted to advances in the theory and techniques of digital signal processing and digital filtering. Contributions on the following topics are particularly encouraged: (i) Design methods and techniques; quantization effects, accuracy and stability. (ii) Multi-dimensional filtering methods; digital image processing. (iii) Hardware implementation (including new devices as CCD and SAW). (iv) Applications to signal and image processing with particular reference to speech, radar and sonar signals, biomedical signals and images, remote sensing and earth resource data, fine arts and archaeological prospecting.

The Conference will include some special Sessions on the following subjects: speech processing, radar signal processing, digital image processing, microprocessors, bio-medical signal and image processing, new devices (CCD, SAW). A Round Table discussion on "Impact of Digital Signal Processing in Technical and Industrial Areas" will also be held.

Further information on registration and payment from: Segretaria, Sezione di Firenze dell'ANIPLA, Via di S Marta, 3, 50139 Firenze, Italy.

### 8th European Microwave Conference

This Conference will be held in the Hotel Meridien, Paris, during the week commencing September 4, 1978.

The following subject areas are regarded as particularly appropriate for the conference: Advances in microwave measurements and metrology; Antennae and arrays; Communication systems and sub-systems; Medical and biological applications; Microwave acoustics; Microwave integrated circuits; Microwave signal processing; Microwave tubes; Novel applications; Passive components and ferrite devices; Propagation in guiding structures; Radiometry and remote sensing; Solid-state devices; performance, technology, reliability and circuits; Space components; Sub-millimetre components and circuits; Sub-nanosecond and gigabit electronics.

Papers to be submitted to Professor E Constant, Centre Hyperfréquences et Semi-conducteurs, Université des Sciences et Techniques, Boîte Postale 36, 59650 Villeneuve d'Ascq, France. Other information from Microwave Exhibitions and Publishers Ltd, Temple House, 36 High Street, Sevenoaks, Kent, England.

After the above Conference a Workshop will be held on Diagnosis and Therapy using microwaves on September 8, 1978 to allow more in-depth general discussions on papers presented at the 8th European Microwave Conference.

The aim of this international workshop is to make a state of the art on the possibilities offered by microwaves in the medical field and study the progress realized in the treatment of cancer.

Further information from Dr A Priou, Microwave Department (DERMO), ONERA-CERT, BP 40-25, 31055 Toulouse Cedex, France (Tel. 53.11.88 Toulouse).

### International Broadcasting Convention

IBC 78 will be held at the Wembley Conference Centre, London, September 25-29, 1978.

The technical programme will cover new techniques, systems and developments in sound and television broadcasting, both analogue and digital, including: microprocessors and minicomputers in broadcasting; low-budget broadcasting systems; satellite broadcasting and distribution systems; studio lighting technology; propagation and service planning;

### IEEE Membership

IEEE Membership has reached an all-time high according to year-end statistics. Total membership, including higher grades and Student members, exceeded 183,000, as of January 1978. The previous record, at year-end 1975, was 179,835.

The Institute's membership growth in 1977, nearly 4,400 additional members, represents an increase of 2.4 per cent over the 1976 year-end count of 178,616. The percentage growth was much higher in Regions outside the USA; Region 8 was growing at ten times this rate.

transmitters, transposers and aerials; lightweight programme equipment; sound systems, stereo and quadraphonics; television cameras, electronic graphics, visual effects and other studio equipment; video and audio recording and storage; new broadcasting systems (eg teletext and traffic information); audio and video measurement technology; future possibilities in receiver design.

The IBC Exhibition will complement the technical sessions.

Further information from: The IBC Secretariat, The Institution of Electrical Engineers, Savoy Place, London, United Kingdom, WC2R 0BL.

### Antennae and Propagation

This International Conference is organized by the Institution of Electrical Engineers in association with the Institute of Electrical and Electronics Engineers (Antennae and Propagation Society), the Institute of Mathematics and its Applications, the Institute of Physics, the Institution of Electronic and Radio Engineers and the International Union of Radio Science (URSI). It will be held in London, November 28-30, 1978.

The aim of the Conference is to promote interaction between those active in the fields of antenna theory and design and electromagnetic wave propagation. The entire radio-wave spectrum used for telecommunications, navigational and radio-astronomical purposes will be considered.

Further information from: IEE Conference Department, Savoy Place, London WC2R 0BL, United Kingdom.

### International Conference on Future Energy Concepts

The Conference is organized by the Science, Education and Management Division of the Institution of Electrical Engineers in association with the Institute of Electrical and Electronics Engineers (United Kingdom and Republic of Ireland Section), the Institute of Fuel, the Institute of



# Wiley

Recently Published:—

## AMERICAN NATIONAL STANDARD National Electrical Safety Code 1977 Ed;

by the Institute of Electrical Engineers.

This consists of the parts of the National Electrical Safety Code (NESC) currently in effect. Because the former practice of designating parts by editions has become impractical, in this edition Parts 1 and 4 are 6th editions, Part 2 is the 7th edition, and Part 3, a revision of the 6th edition.

Contents: Part 1: Rules for the Installation and Maintenance of Electric Supply Stations and Equipment; Part 2: Safety Rules for the Installation and Maintenance of Electric Supply and Communication Lines; Part 3: Safety Rules for the Installation and Maintenance of Underground Electric-Supply and Communication Lines; Part 4: Rules for the Operation of Electric-Supply and Communication Lines and Equipment; Index.

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Mathematics and its Applications, the Institute of Physics, the Institution of Chemical Engineers, the Institution of Civil Engineers, the Institution of Electronic and Radio Engineers, the Institution of Mechanical Engineers, the International Solar Energy Society (UK Section) and the Society of Chemical Industry.

It will be held in London, January 30-February 1, 1979.

The Conference is intended to bring together those active in the diverse fields covering novel energy concepts to discuss their separate and mutual problems, following the successful IEE International Conference on "Energy, Europe and the 1980s" held in 1974.

To present the engineering aspects of future energy concepts, the relevant fundamental science and to make realistic comparisons between the various options.

The main emphasis will be on the engineering aspects, and related science, of novel energy concepts such as: solar power, wind power, hydrogen economy, storage systems, fuel cells and batteries, compressed

air storage, tidal power, wave power, geothermal energy, superconducting systems, MHD generation, fluid bed combustion.

Some consideration will also be given to matters of environmental impact, conservation, economics and policy.

To provide an appropriate background, conventional concepts involving coal, oil, gas and nuclear energy will be reviewed in invited lectures. Further details from IEE Conference Department, Savoy Place, London WC2R 0BL, United Kingdom.

#### Very Large Scale Integrated Circuits

A conference on this subject covering technologies, circuits, systems and applications will be organized by NTG and co-sponsored by IEEE Germany Section. It will be held in Baden-Baden from April 3 to 5, 1979. The Programme Committee Chairman is Dr Hugo Ruchardt, Siemens AG, UBB WIS TE, Balanstr. 73, 8000 Munchen BRD. Telephone 08971772810. Telex 522691.

## MEETINGS OUTSIDE REGION 8

### 1978 ISCAS

New methods and technologies for circuits and systems will be highlighted at the IEEE Circuits and Systems Society's annual symposium to be held at the Roosevelt Hotel, NY, NY during May 17-19. Several special sessions, regular sessions, and pre-symposium workshops will be devoted to such topics as surface acoustic wave and magnetostatic wave signal processing, microprocessors, fibre optics, charge coupled devices, switched capacitor filters, digital signal processing, active filters, macro-modelling, large scale systems, power stations, and radiation effects in electronics. 1978 ISCAS will host more than 400 authors from the USA and abroad who will present more than 200 papers during three technical

sessions. With ELECTRO 78 in Boston the following week, this is an excellent opportunity for valuable technical interactions in two exciting cities. There is excellent public transportation between New York City and Boston.

General registration fees for the symposium are \$60 for IEEE members, if advance information registration is post marked before April 21, and \$70 at the symposium. For non-members the fees are \$65 and \$75 for those registering in advance and at the symposium respectively. Each registrant will receive a complete copy of the Conference Proceedings at the symposium. For further information contact Dr Kenneth R Laker, 1978 ISCAS Publicity Chairman, Bell Laboratories, Holmdel, NJ 07733.

## NEWS OF THE SECTIONS

### UNITED KINGDOM AND REPUBLIC OF IRELAND SECTION

The Annual General Meeting was held on February 21 when Mr C Reginald Russell took over the Chairmanship from Bob Winton. He said that the Section had benefited from the efficiency and despatch with which Bob Winton had conducted its proceedings. A new Student member of the Executive Committee was welcomed to replace his predecessor, who was no longer a student. Approval was given to the extension, to students of the British Computer Society, of the Section scheme for subsidizing students' dues during their first year of membership. A committee on continuing education was set up during the year. After the AGM a very appreciative audience heard Dr G H Byford talk, and illustrate, his personal connections with aviation medicine including some highly sophisticated electronics but also showing highly reliable simpler apparatus.

### Professional Communication Chapter

The weekend conference organized by the Chapter and held at the Beauport Park Hotel, Sussex, on March 3-5 attracted 14 members, eight of them with their ladies. This proved to be an excellent number in that everyone, including the ladies, was able to take an active part in the discussions. After an extremely stimulating talk by Professor Eric Laithwaite on "Communications in Nature" on the Friday evening, the conference spent Saturday and Sunday mornings on seminars on "The Spoken Word" and "The Written Word" organized by Dr Sinclair Goodlad of Imperial College. Ten participants each gave a five to ten minute talk which was commented upon with regard to its manner of delivery by the others present and, finally, expertly evaluated by Dr Goodlad. Seven participants submitted written articles which were commented upon in a similar way.

Saturday evening was devoted to an enjoyable and instructive "game" organized by Dr E Hewton of the University of Sussex. The participants were supposed to have crash-landed on the moon 200 miles from the mother ship with 15 items of undamaged equipment ranging from oxygen tanks to a box of matches. Each participant was asked to arrange these in order of priority for taking on the journey to the mother ship. The party

was then assembled into three groups each of seven or eight participants and asked to produce a list agreed by the group. The lists were each compared, by a simple marking scheme, with an "official" list provided by space experts. As expected, the group decisions were more accurate than the average of the individual decisions in the group but a remarkable result was that each of the eight ladies produced an individual list more accurate than that of any of the gentlemen!

This was the first event of this nature organized by the UKRI Section and its success leads to the possibility of a future venture at a location north of London.

### ISRAEL SECTION

At the end of December 1977 the total number of active members in the Israel Section was 351.

The officers in the Section are: Mr J Baal-Schem, Chairman, Mr Mark Shavit, Vice-Chairman, and Mr R Hoyde, Secretary/Treasurer.

The Section has established two Chapters: a Joint Microwave Theory and Techniques/Antennae and Propagation Chapter.

The MTT/AP Chapter organized on December 8 a symposium on Adaptive Array Antennae, attended by more than 100 persons, followed by a three day course on the same subject. Among the lecturers at the symposium and at the course were Prof Bernard Wichow, from Stanford University, Prof Ted Compton, of Ohio State University, Prof Bernard Steinberg of the University of Pennsylvania.

Another symposium was organized by the MTT/AP Chapter on February 22, 1978 on the subject of Phase Shifters for Phased Array Antennae, with the participation of Dr Joseph White, who received the Application Award of the IEEE MTT Group in 1975. Over 50 engineers attended the symposium.

The Executive Committee of the Israel Section has taken the initiative of proposing to the Government of Israel that it sponsor one of the forthcoming Eurocons. A formal invitation has already been sent by the Minister of Industry, Trade and Tourism to the Director of Region 8 and to the President of Eurl. The subject has been discussed at the Regional Meeting at Madrid and Jerusalem is now considered as a possible venue for EUROCON 83.

## ADVERTISING AND INSERTS

Enquiries to County Secretarial Services, P.O. Box 7, Guildford, Surrey, England GU2 5HH. Telephone 0483 77777. Telex 264045 ERALHD G. Cable Address COSEC GUILDFORD. Delivery address 8 The Flower Walk, Guildford. Deadline dates in box on front page.

### ADVERTISING RATES

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### INSERT RATES

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