Dear Member of Region 8,

The IEEE, as you know, is a trans-national society which means that it seeks to provide all its services world-wide, regardless of the particular country its members live in. We are all familiar with the vast range of IEEE's publications but, as members, additional services are available to us—particularly in the organisation of conferences. In 1971, the then Director, Dr Roger Wellinger of Switzerland introduced a new type of conference—Eurocon '71—to the Region and to Europe, a highly successful event attended by 1100 engineers, held in Lausanne.

You will have read in previous newsletters that a successor conference—Eurocon '74—has been arranged, this time in Amsterdam. In this extra issue of the Region's newsletter devoted to Eurocon '74 I want to emphasise the importance of the conference in the hope you will be able to join us there. There are, of course, many conferences in Europe, but this is a special one.

First, we are this time joined as partners in organising the conference by the Convention of Electrical Engineering Societies of Western Europe—and many of you will be members both of the IEEE and of your particular national society which is itself a member of the Convention.

Second, Eurocon is a special type of conference as is shown by the following extract giving a representative selection from the 279 papers being presented—the six main conference themes cover areas of interest to every member. Specialists in particular technical areas can readily identify papers on the frontiers of their specialisation whilst, in addition, the conference organisers have taken care to arrange a timetable of invited papers to enable you to become familiar with state-of-the-art in other important areas which run parallel to your specialisation.

Third, recognising that a conference is also a meeting-place, great emphasis is placed on participation—particularly in discussions after papers, for which generous time is allowed and also for panel and discussion groups. We all know the great benefits personal contacts can bring.

All this has required a great deal of dedicated effort from the technical programme committee and in order to keep the topics fresh and up to date the final technical programme has been issued as late as possible—to use computer language it is a 'real time' conference. This special issue of the newsletter therefore, is designed to bring you these last-minute details of the technical programme.

The preliminary information which has so far appeared has already brought a large response for registration. I hope you, too, will fill out the enclosed forms A, B, C for registration and join us in Amsterdam.

C. REGINALD RUSSELL

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There is a good social events programme—with a Ladies' Programme—as shown on Form C; the Dutch evening is arranged as a vast series of buffets—again enabling participants to move around in a convivial atmosphere and make further contact with conference colleagues.
SECTION 2 - INSTRUMENTATION ELECTRONICS

Structure analysis and electron microscopy of biological molecules
O. Scheerer, Technische Hochschule Darmstadt, Darmstadt, Germany Image processing systems
J. F. Bülles, Philips Research Lab., Amsterdam, The Netherlands
New techniques for the digital processing of radar signals
D. J. Kappl, Hughes Aircraft Co., Westlake Village, Calif., USA
Subnanosecond and picosecond detection and display devices
J.-P. Auzan, Laboratoire de Physique de Grenoble, France
Propulsion of an autonomous, resistant and manoeuvrable submarine capable of reaching depths of around 3,000 metres
E. Cailleau, Centre National d'Etudes Spatiales, France
The tasks of measuring techniques to effect the environmental control; questioning and development of a computer system adapted to environmental education and training
J. L. Sabonnadiere - J. C. Latombe, Ecole Nationale Superieure d'Electrotechnique et d'Electronique de Grenoble, Grenoble, France

The anti-social engineer in society with particular reference to unauthorizedavedaysystems

SECTION 4 - THE COMPUTER IN SOCIETY

Computers and engineering (review paper)

Software: options for the application of computer systems adapted to engineering education and training
J. L. Sabonnadiere - J. C. Latombe, Ecole Nationale Superieure d'Electrotechnique et d'Electronique de Grenoble, Grenoble, France

The computer and the creation and use of leisure (review paper)
O. L. Christiansen, University of Nebraska, Omaha, Nebraska, USA

POTENTIALS FOR INTERACTIVE COMPUTER NETWORKS (review paper)
C. G. R. Licklider, Massachusetts Institute of Technology, Cambridge, Massachusetts, USA

The use and use of data banks in a hospital (review paper)
J. Anderson, King's College Hospital Medical School, London, England

The expanding role of telecommunications
New services and technologies
N. A. Grimsmo, Norwegian Telecommunications Administration, Oslo, Norway

Modern distillation for aseptic culture
B. Ellis, Royal Aircraft Establishment, Farnborough, Hants., England

Remote measurement of local temperatures in equipments submitted to high accelerations
J. Geland - A. Carballala, Lab. Central des Industries Electriques, Fontenay-aux-Roses, France

The impact of telecommunications on oceanology
A. Van Oosterom, Unilever Research, Vlaardingen, The Netherlands

Microwave spectroscopy, a method for air pollution control
W. Schlapbach, Philips Forschungs lab., Hamburg, Germany

Opto-acoustic air pollution monitoring
L. G. Rosengren - E. Max - S. T. Eng, Chalmers University of Technology, Gothenburg, Sweden

The impact of microelectronics on data processing capability and replacement of electromechanical means by electronics
U. Pellegrini, Olivetti, Ivrea, Italy

Wideband instrumentation recording of 80 million bits per second
J. D. Welty, General Electric, Poole, Dorset, England

Automatic diagnosis as feature of modern check-out systems
F. W. Schuz, Siemens AG, Karlsruhe, Germany

SECTION 3 - COMMUNICATIONS FOR THE 1980'S

On the marriage of telephone and television
J. L. Bordewijk, Delft University of Technology, Delft, The Netherlands
Post 1980 local loop engineering

Local network
A. P. Boile, Dr. Heber Laboratory PTT, Leidschendam, The Netherlands

Concepts of long distance digital transmission
H. Marko, Institut fuer Nachrichtentechnik, Munich, Germany

Remote measurement of optical fibres
S. Maslowski, AEG-Telefunken, Ulm, Germany

Principles and application of source encoding of speech, pictures and facsimile
M. Muismann, Technische Universitat Braunschweig, Braunschweig, Germany

Electromagnetic compatibility
R. H. M. Blum, Philips Research Lab., Eindhoven, The Netherlands

The future of broadcasting, with special reference to satellite broadcasting
G. Hansen, EBU, Brussels, Belgium

Transmission of digital TV signals via communication satellites
C. Urich, Standard Elektrik Lorenz AG, Stuttgart, Germany

DTS®- a forerunner of a European communication satellite system
W. G. Evans, Imperial College of Science and Technology, London, England

Interpretation of myocardial signal power spectra. Part I: Theory
L. Lindstrom - H. Broman - R. Magnusson, Chalmers University of Technology, Gothenburg, Sweden

Interpretation of myocardial signal power spectra. Part II: Experimental confirmation
R. Lindgren - L. Lindstrom - R. Magnusson - J. Petersen, Chalmers University of Technology, Gothenburg, Sweden - E. Stalbarg, University of Technology and Health Care, Gothenburg, Sweden

Biomedical image processing
M. Tasto, Philips Forschungslabor, Hamburg, Germany - N. Ty. Smith, Veterans Administration, Gothenburg, Sweden - A. Saluan, Universita di Padova, Padova, Italy

Computer-aided instruction to communication science and technology?
G. Einarsson, Lund Institute of Technology, Lund, Sweden - M. Tasto, Philips Forschungslabor, Hamburg, Germany - C. Cobelli, Biomedical Engineering Department, University of Padova, Padova, Italy - A. Saluan, Universita di Padova, Padova, Italy

Technology and health care - the changing scope of biomedical engineering
R. B. Connors, The Roosevelt Hospital, New York, USA

Progress of bio-electric signals
L. H. Zetterberg, Royal Institute of Technology, Stockholm, Sweden

Assessment of digital filters and data compression to processing of some biomedical signals
F. V. M. Glumelli - A. Galli - F. Lotti - F. Fraili, Istituto di Ricerca sulle Onde Elettromagnetiche, Firenze, Italy

Interpretation of dynamic renal function - a research and diagnostic tool
J. E. Sellick - J. E. Pocock, University of Cambridge, England

Unconventional imaging systems for X-radiation in medicine
G. Groh - H. Weiss, Philips Forschungs lab., Hamburg, Germany - H. Maas, Philips Forschungs lab., Hamburg, Germany

A beat-to-beat cardiac output computer using a pulse contour method

Simulation of dynamic renal function - a research and diagnostic tool
J. E. Sellick - J. E. Pocock, University of Cambridge, England

Problems in an integrated approach to biomedical engineering
M. Tasto, Philips Forschungslabor, Hamburg, Germany - N. Ty. Smith, Veterans Administration, Gothenburg, Sweden - A. Saluan, Universita di Padova, Padova, Italy

The electrical engineering education at the Katholieke Universiteit Leuven in Belgium

The application of computer-aided instruction in engineering education
G. J. Staessen, Lund Institute of Technology, Lund, Sweden - J. L. Sabonnadiere - J. C. Latombe, Ecole Nationale Superieure d'Electrotechnique et d'Electronique de Grenoble, Grenoble, France

Teaching electronic engineering in a university in a developing country
G. J. Staessen, Lund Institute of Technology, Lund, Sweden

The anti-social engineer in society with particular reference to unauthorizedavedaysystems

Measurement and feedback - a compulsory course for all students of science and technology?
J. J. Remusat, Service Technique d'Etudes des Moyens Modernes d'Enginierie, Orsay, France

Some problems of technical education in developing countries
G. Petropiagou, Italy