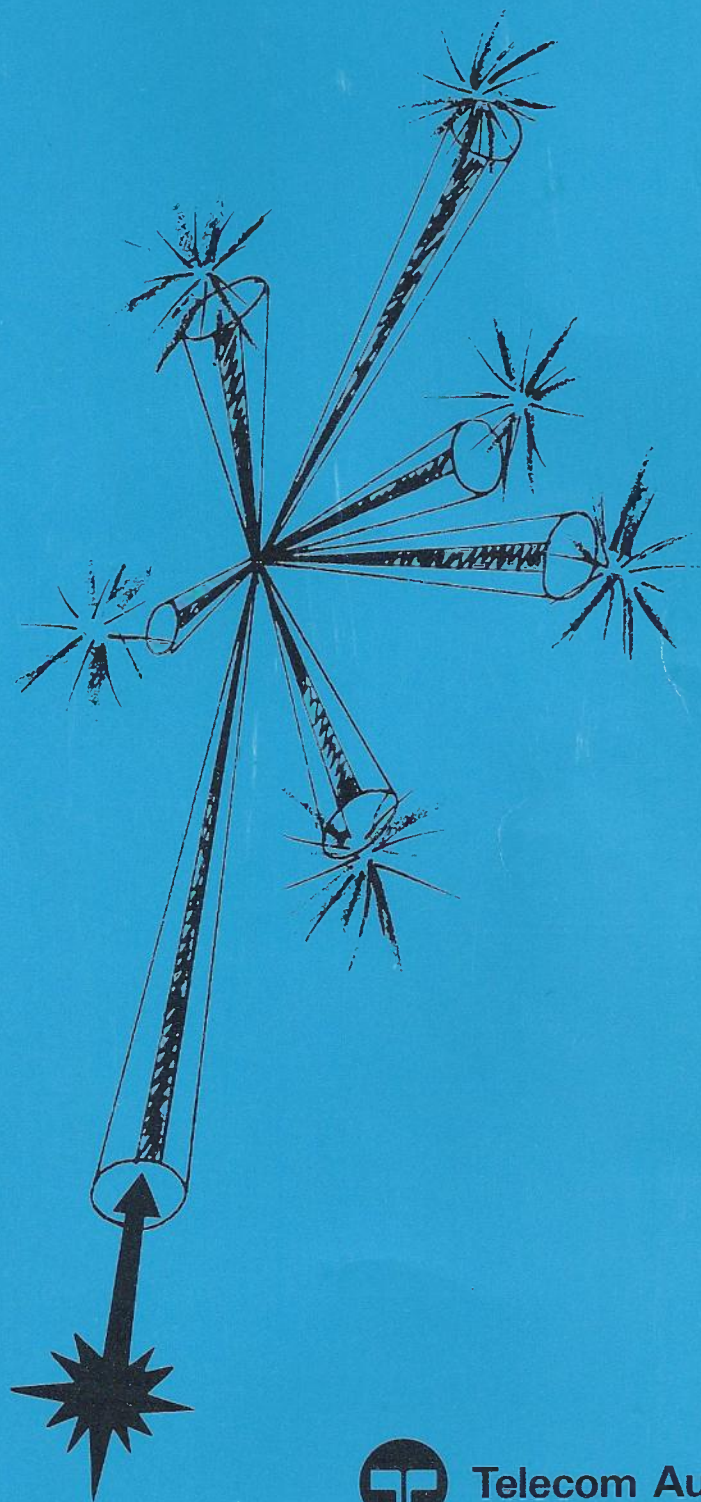


TRANSMISSION NETWORKS & STANDARDS



Telecom Australia
Research Laboratories

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TRANSMISSION NETWORKS & STANDARDS RESEARCH

OUR MISSION

**“To develop and maintain leading edge expertise in
transmission networks and standards, and to have
Telecom use this expertise to advantage.”**

TRANSMISSION NETWORKS & STANDARDS RESEARCH

OUR MISSION

"To develop and maintain leading edge expertise in
transmission networks and standards research."

BRANCH GROUP

TRANSMISSION NETWORKS & STANDARDS BRANCH GROUP



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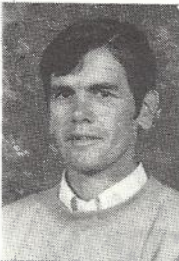
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ELECTROMAGNETIC COMPATIBILITY SECTION

ELECTROMAGNETIC COMPATIBILITY SECTION



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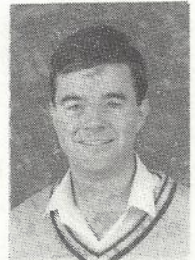
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Bioelectromagnetic Hazards

The welfare of its customers and staff are of the highest importance to Telecom, especially in relation to electromagnetic radiation emitted by Telecom systems and facilities. The Bioelectromagnetic Hazards project employs a high calibre team of experts in electromagnetic radiation. Their capability is a safety asset for Telecom in keeping human exposure to electromagnetic radiation at safe levels.

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EMC of Information Technology Equipment

Modern information technology equipment can emit and be susceptible to electromagnetic interference. Fortunately, the technical expertise in electromagnetic compatibility (EMC) gained through this project helps to ensure that Telecom's electronic systems are compatible with their operational environments. Telecom reaps the advantages of improved product reliability and minimised maintenance costs.

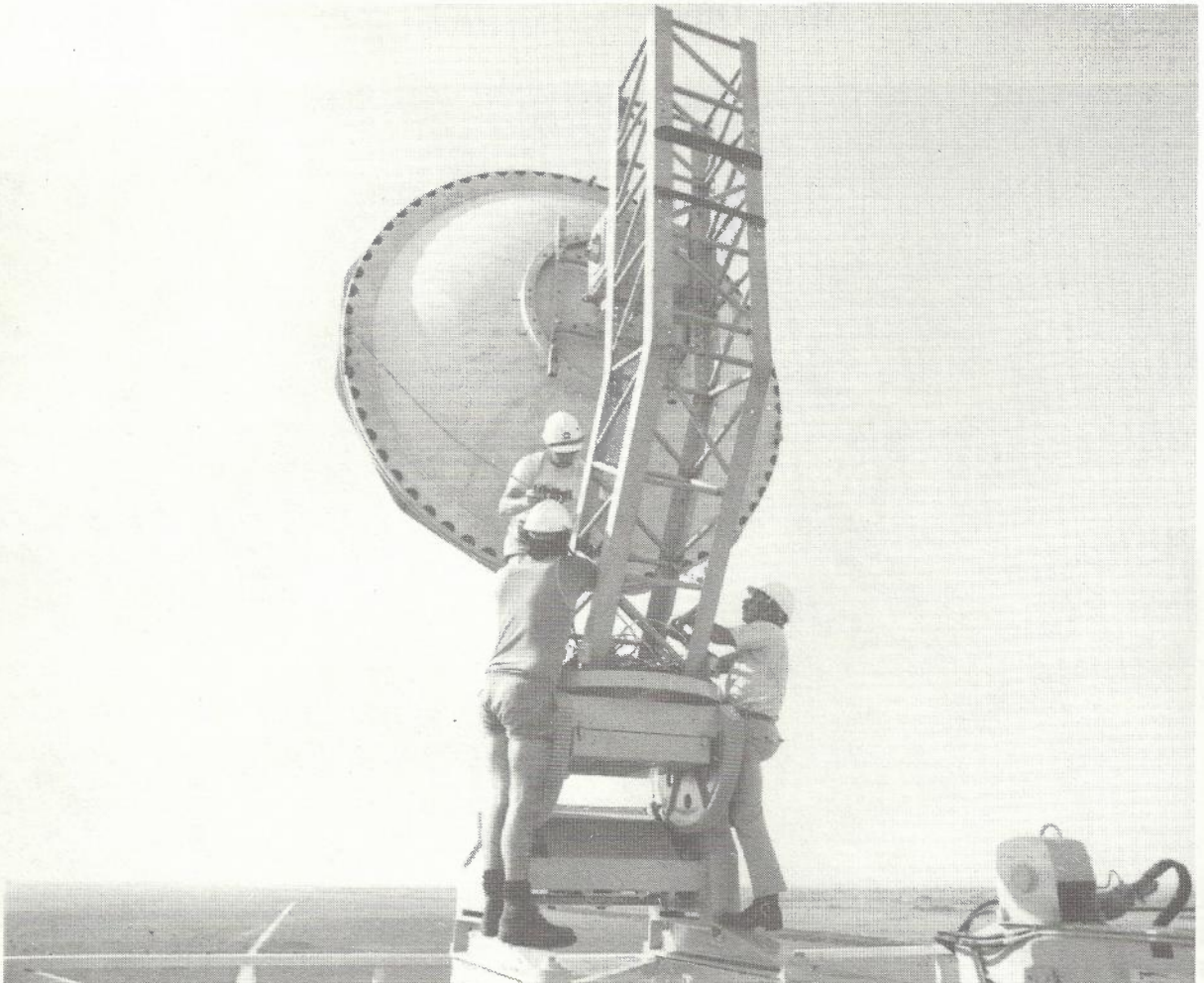
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Caldermeade Antenna Test Range

The Caldermeade Antenna Test Range is an engineering tool which allows Telecom to evaluate the radiation performance of new and novel antennas, and to ascertain whether purchased antennas meet their specifications. The expertise of the staff who conduct this project is commercially valuable and is saleable to client organisations outside Telecom.

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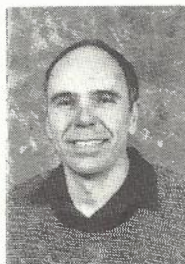


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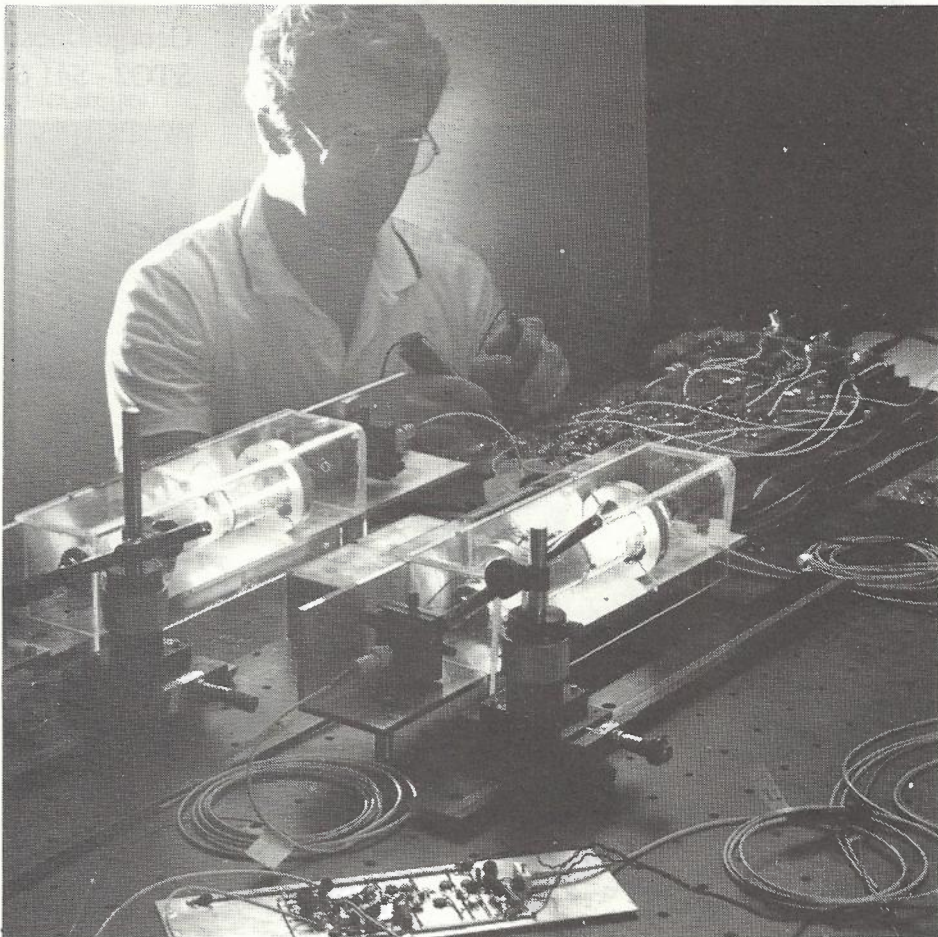


Ian Moyes
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Interexchange Network Evolution

The interexchange optical fibre network must be responsive to future customer demands. This project prepares for future increases in transmission traffic by designing and assessing new transmission techniques which enhance the transmission capacity of existing optical cables. The timely introduction of appropriate techniques can ensure increased interexchange efficiency to meet future customer demands.

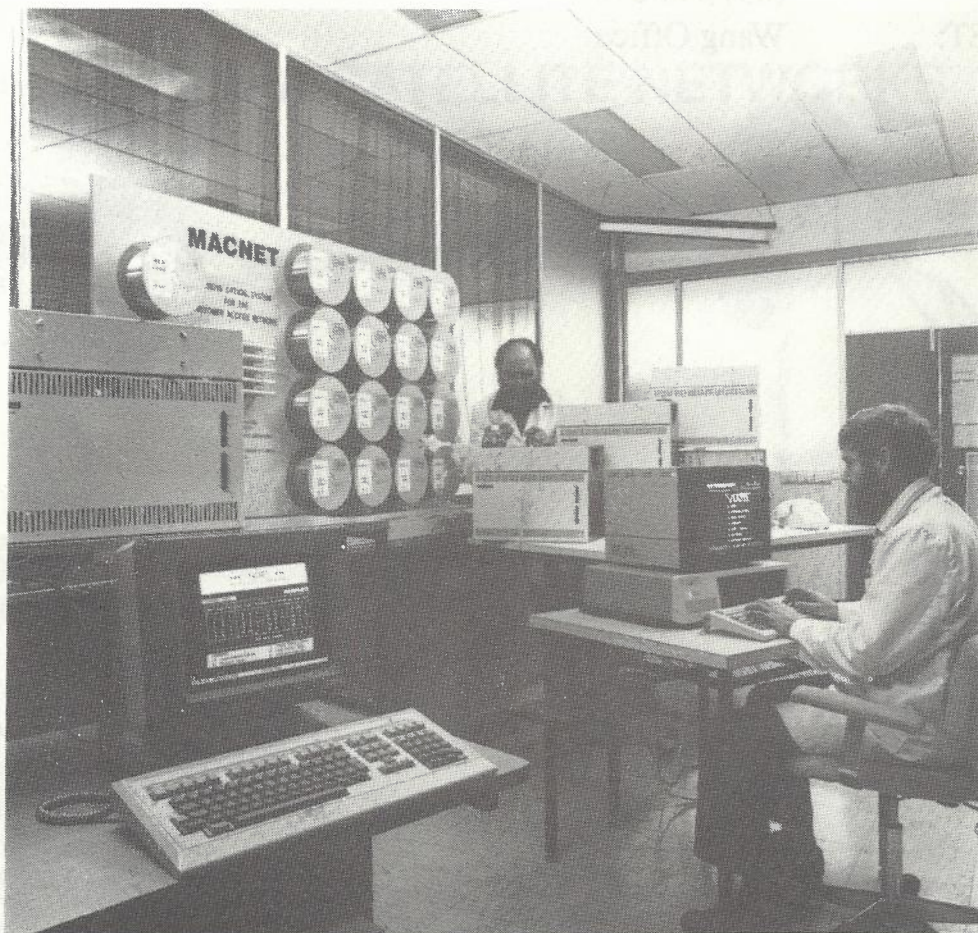
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Optical Customer Access Network

The cost-effective introduction of optical fibre into the Customer Access Network (CAN) requires a high degree of technical expertise and support. This project delivers these essential attributes, and will ultimately enable Telecom to provide customers with a range of new wideband services, as well as cost reductions to existing services.

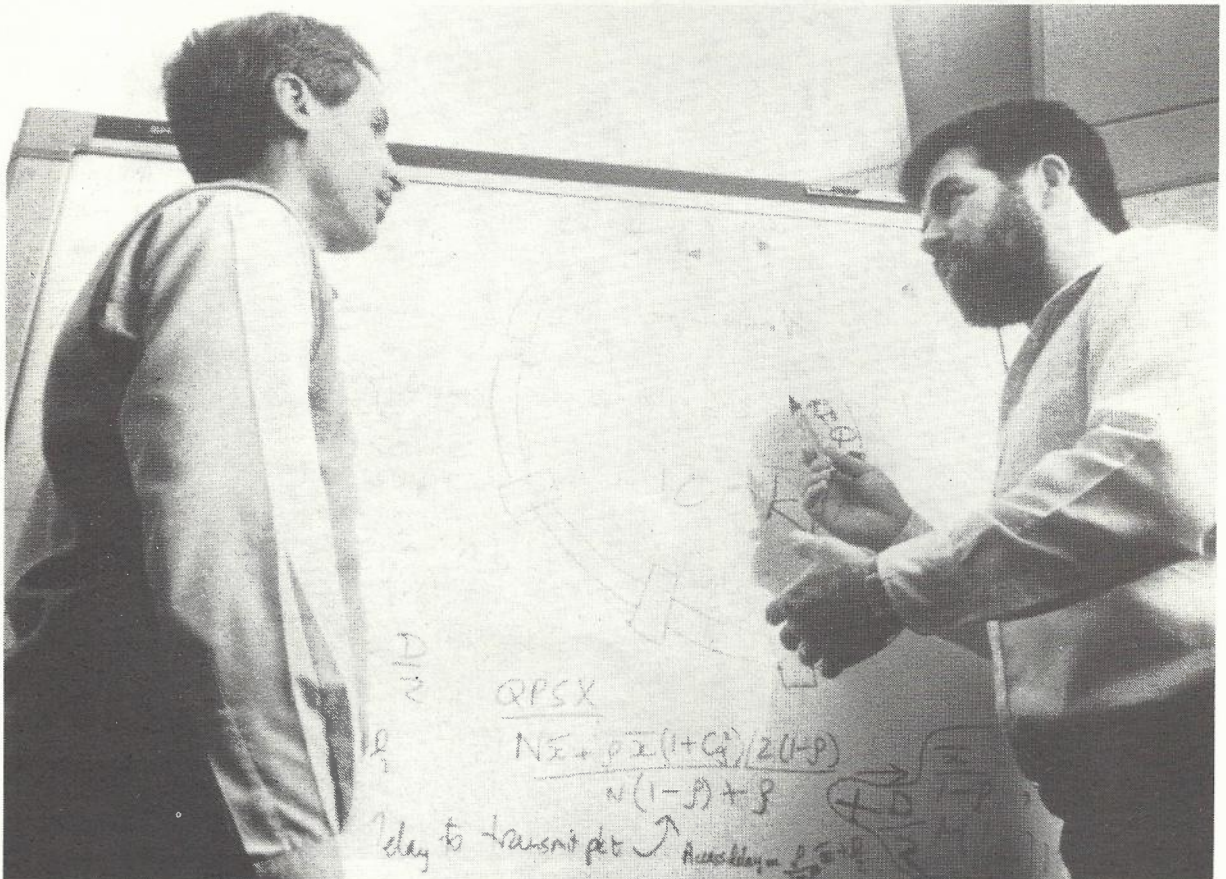
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Metropolitan and Local Area Networks

During the next decade, the services and products available to Telecom's corporate customers will be wide ranging. Increased transmission traffic will result, requiring advanced customer site networks, Metropolitan Area Networks (MANs) and Synchronous Transmission Networks. This project provides Telecom with detailed technical support for such networks, so that new services, especially broadband services, can be readily and efficiently provided to customers.

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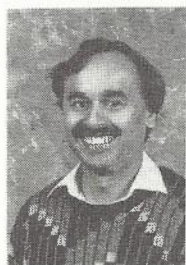
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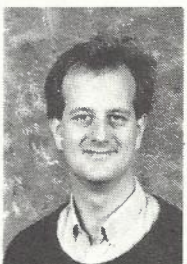
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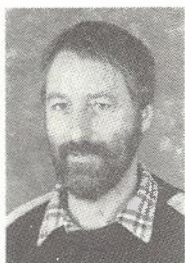


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RADIO & SATELLITE NETWORKS SECTION



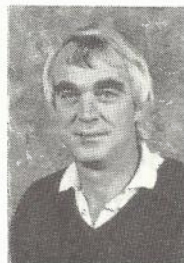
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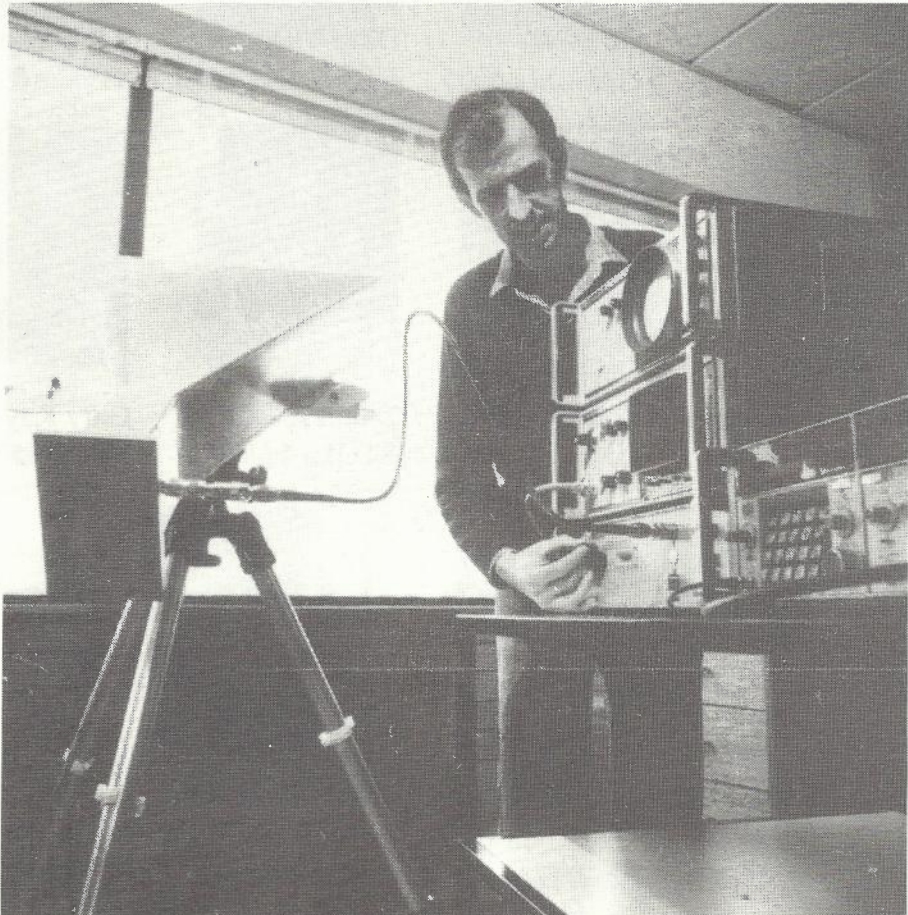


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Mobile Communication Systems

Mobile communications is an area of new and growing business opportunities. To successfully exploit these opportunities, Telecom requires technological leadership in design, implementation and support of new mobile services and products. This project provides Telecom with such leadership, and takes into account spectrum, quality and costs in the pursuit of new mobile communications services and products.

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Satellite Networks

New satellite communication networks can better provide remote and rural customers with access to the Telecom network for fixed, portable and mobile services. This project provides the technological leadership essential to identifying suitable new satellite networks, and to provide indepth technology support for their cost-effective implementation.

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Wireless Access Networks

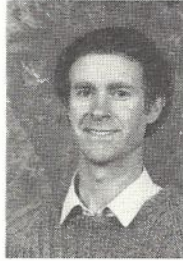
The investigation of possible new wireless access techniques brings new wireless services closer to reality - services such as Wireless PABX, Telepoint and a new generation of cordless/mobile phones. This project identifies new wireless access techniques and investigates their cost effective implementation.

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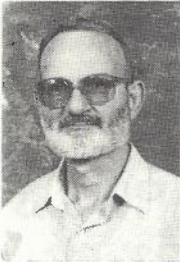


REFERENCE STANDARDS & MEASUREMENTS SECTION

REFERENCE STANDARDS & MEASUREMENTS SECTION



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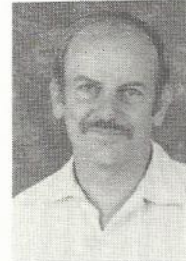
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REFERENCE STANDARDS & MEASUREMENTS SECTION



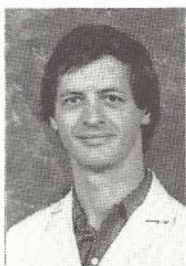
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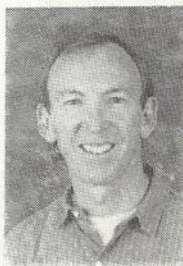
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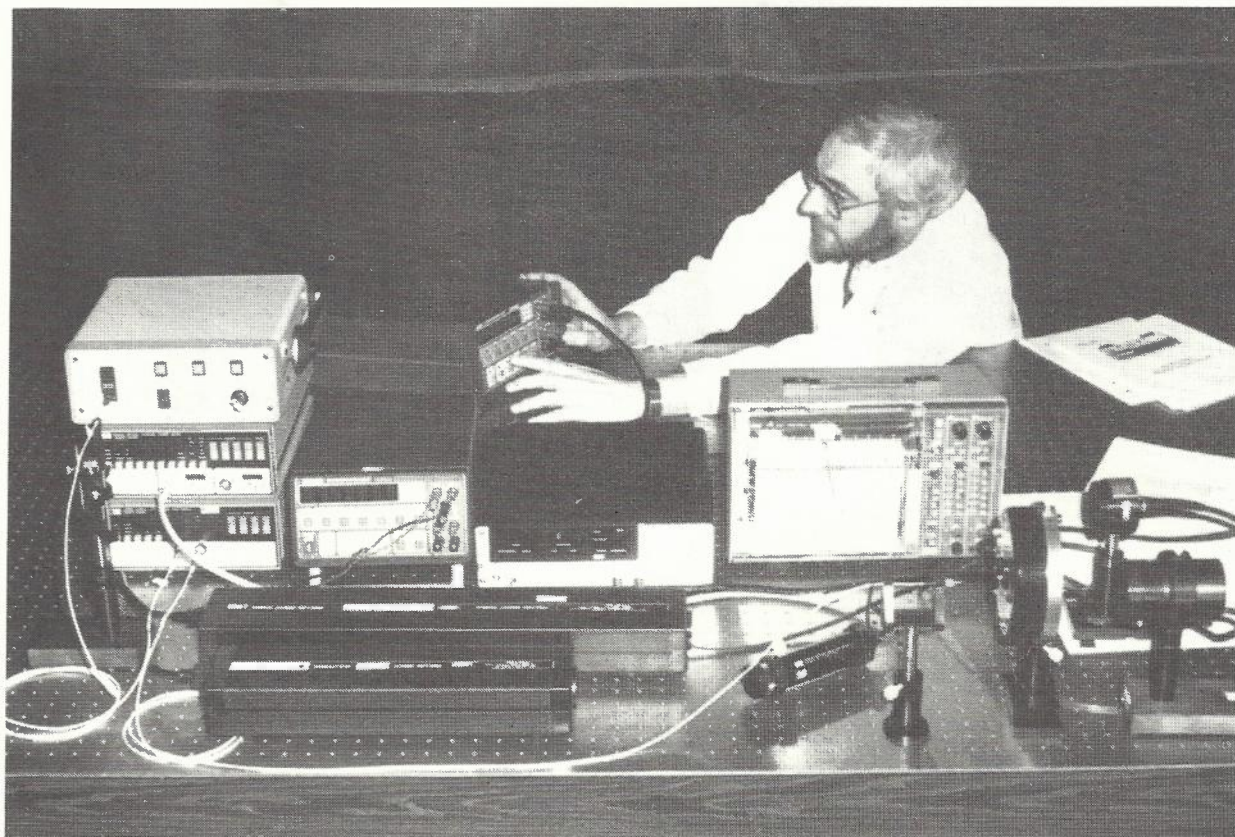


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Standards of Electrical & Optical Quantities

Engineering standards are essential for a rapidly evolving telecommunications industry. The development, operation and traceability of these standards, as well as their evaluation and wide dissemination, is the purpose of this key project. Their use contributes to the efficient operation of the telecommunications network.

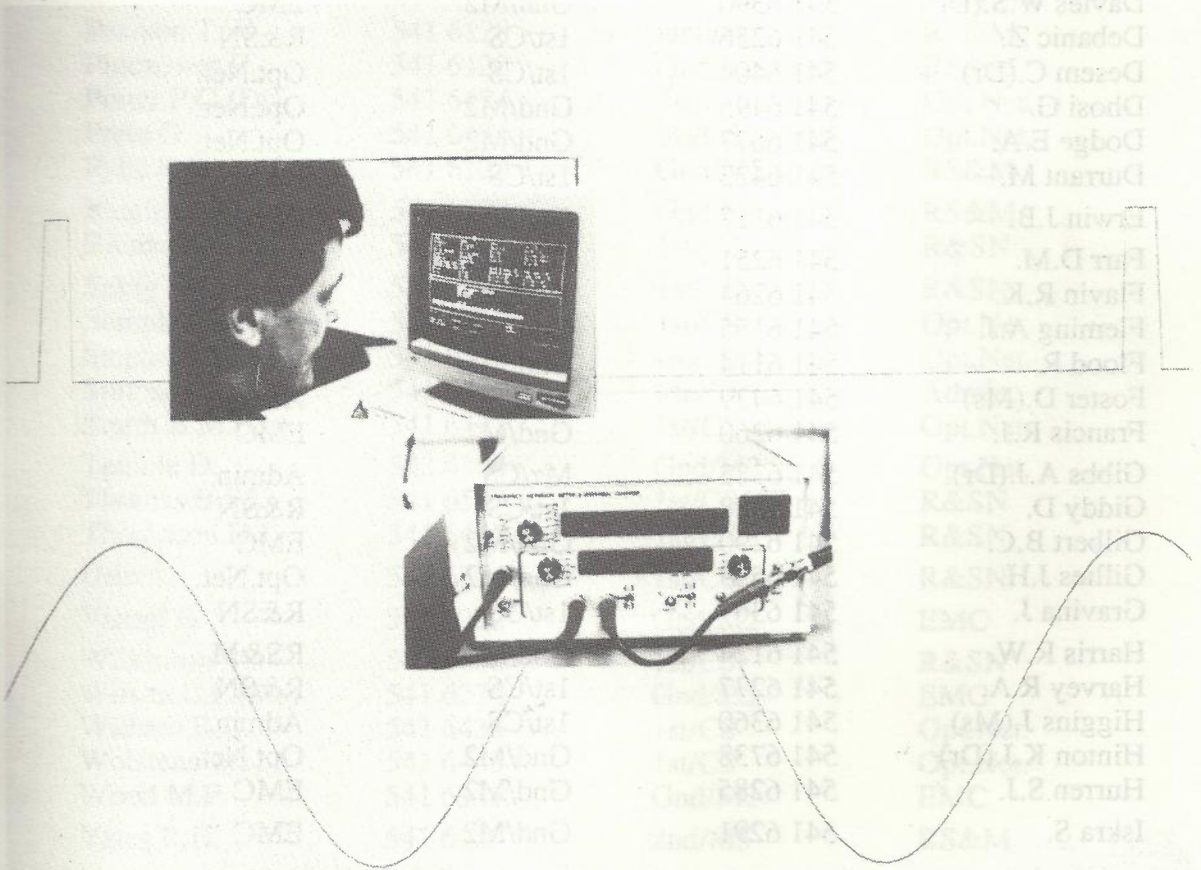
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Standards of Time & Frequency

A nation's modern and sophisticated telecommunications network requires precise frequency and time standards for its operation. This project operates, develops, evaluates and disseminates these standards. As a result, Australia has a network of high standard and international compatibility that is able to meet customer demands of the present and future.

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Yates R.H.	541 6159	2nd/M5	RS&M

