

THE

Marconi

COMPANIES AND THEIR PEOPLE

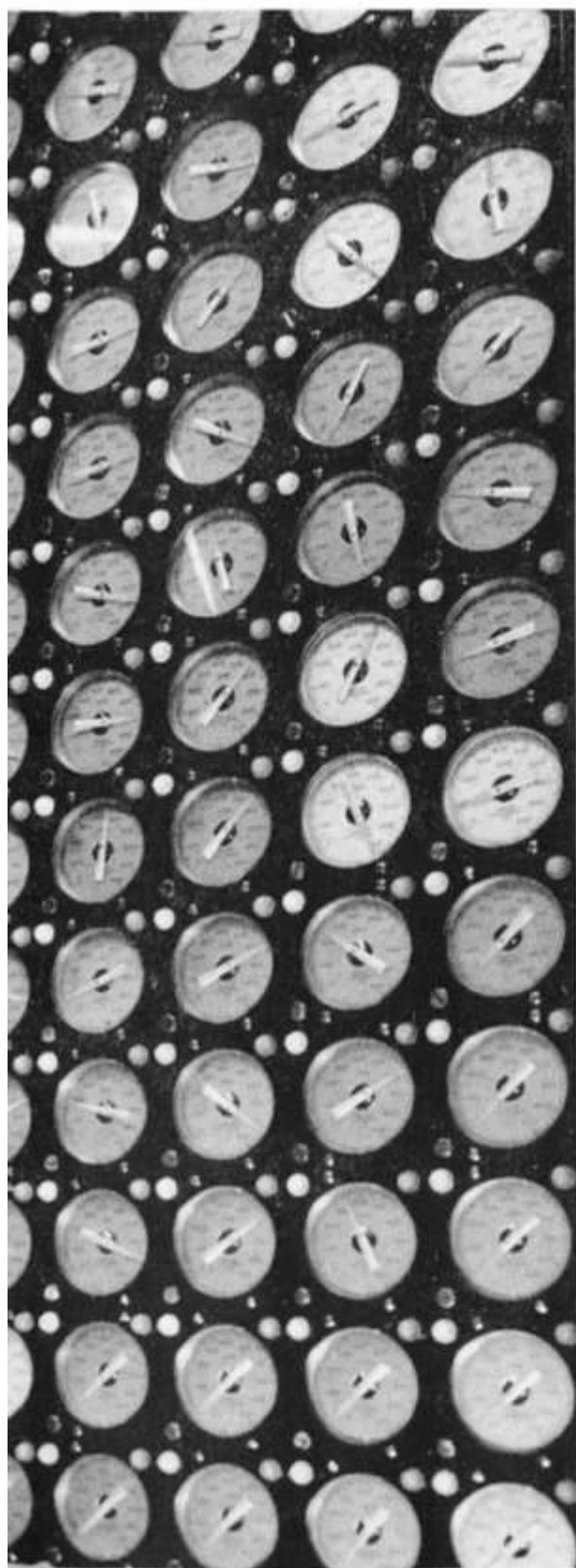


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THE *Marconi*



COMPANIES AND THEIR PEOPLE



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EDITOR: L. W. B. Miller

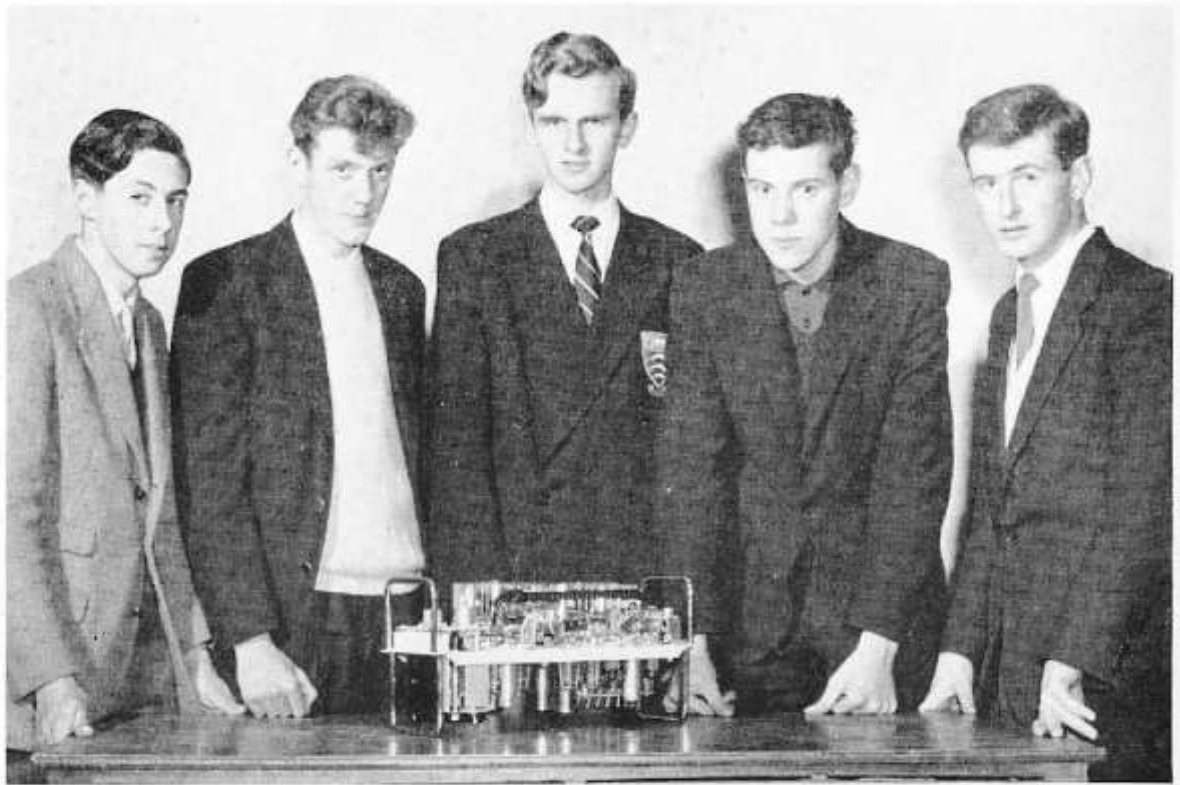
ASSISTANT EDITOR: Mrs. Vaga Stocken

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LEFT: Two control rod display systems have now been completed at Marconi Instruments for the Hinkley Point Atomic Power Station. The many magstrip receivers shown are connected to transmitters at the top of the two reactor piles, 700 feet away, and remotely indicate the positions of the control rods. G. W. Lucas, in charge of the Nucleonics Inspection and Test Department, is checking the setting-up of the receivers before the equipment is despatched

COVER: Final drawings for release to the factory of our new Sixty Series airborne communications and navigation equipment are being prepared in Aeronautical Drawing Office at Basildon. In the picture is Judy Torrance, trainee draughtswoman, who joined Marconi College in 1959 where she took the principles and workshop courses. After experience in the Works and at the Drawing Office School she went with the Aeronautical Division to Basildon. See A Division Unites, page 12



Once again Marconi apprentices achieved outstanding success in the Physical Society Competition. The winning team are, left to right: David Porter, John Cross, Tony Raven, Jack De'Ath and John Palmer, winner of the Silvanus P. Thompson prize. The equipment is John Cross's blanking and sync mixer

A Great Achievement



LEFT TO RIGHT: W. Anmandale, lately Education and Training Officer, who is now with English Electric at Preston; and J. A. Fredericks, who has taken over from Mr. Anmandale

FOR THE THIRD YEAR in succession the premier award in the annual Physical Society Competition, the Silvanus P. Thompson prize for draughtsmanship and craftsmanship, has been won by a Marconi apprentice. It is a remarkable achievement, and one which reflects the greatest credit upon instructors and competitors alike, that apprentices from this Company should carry off the coveted prize three years running. A further cause for congratulation is the fact that all five Marconi entrants were prizewinners, gaining six awards between them.

On this occasion the Silvanus P. Thompson prize was won by technician

apprentice John Palmer, now out of his apprenticeship and working on colour television in the Broomfield drawing office at Pottery Lane; his entry, a reset motor assembly, also received first prize in the senior grade of the class for scientific instruments and components.

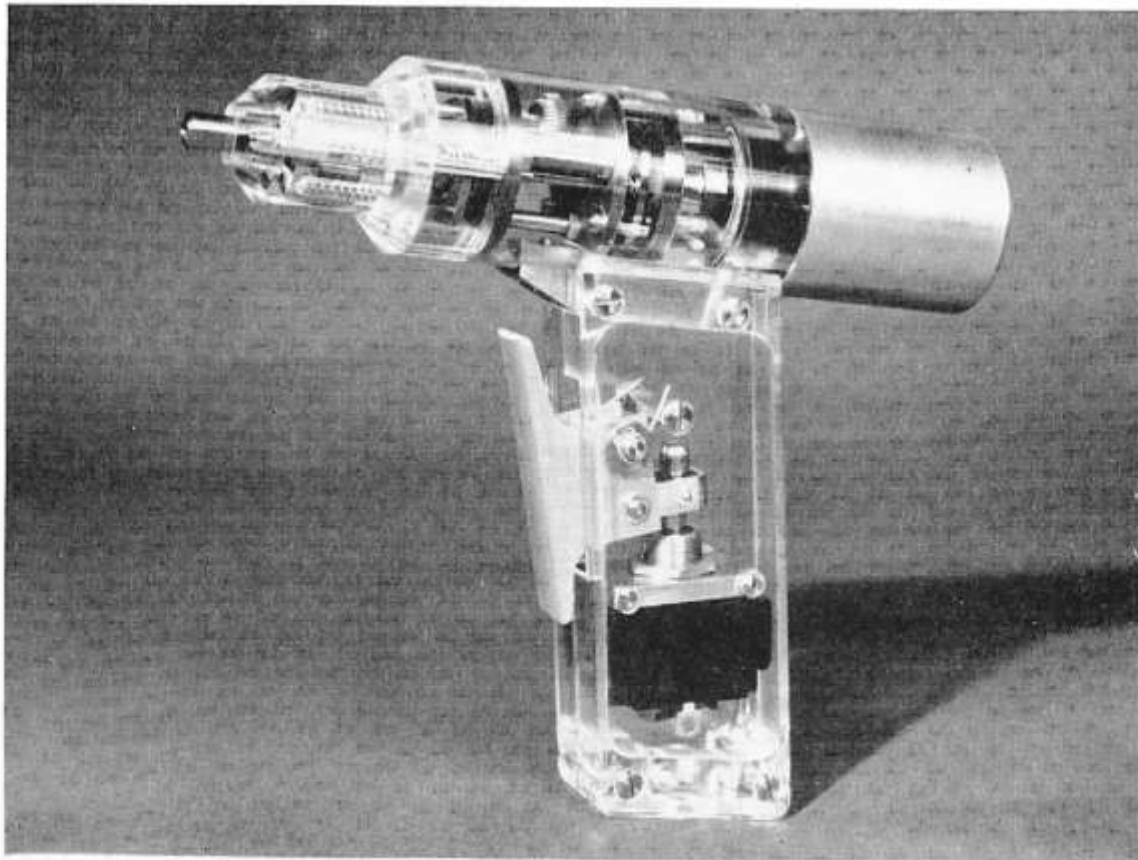
Other Marconi successes in the scientific instruments and components class were two certificates of merit. These were awarded, in the senior grade to Tony Raven, now a Methods engineer, the son of G. R. Raven, Superintendent, Machine Group, Production Department; and in the junior grade to our youngest entrant, seventeen-year-old David Porter, a first-year apprentice. Two prizes came our way in the electronic circuitry class, Jack De'Ath's translator unit being placed first in the senior grade and the blanking and sync. mixer entered by John Cross winning the second award in the junior section.

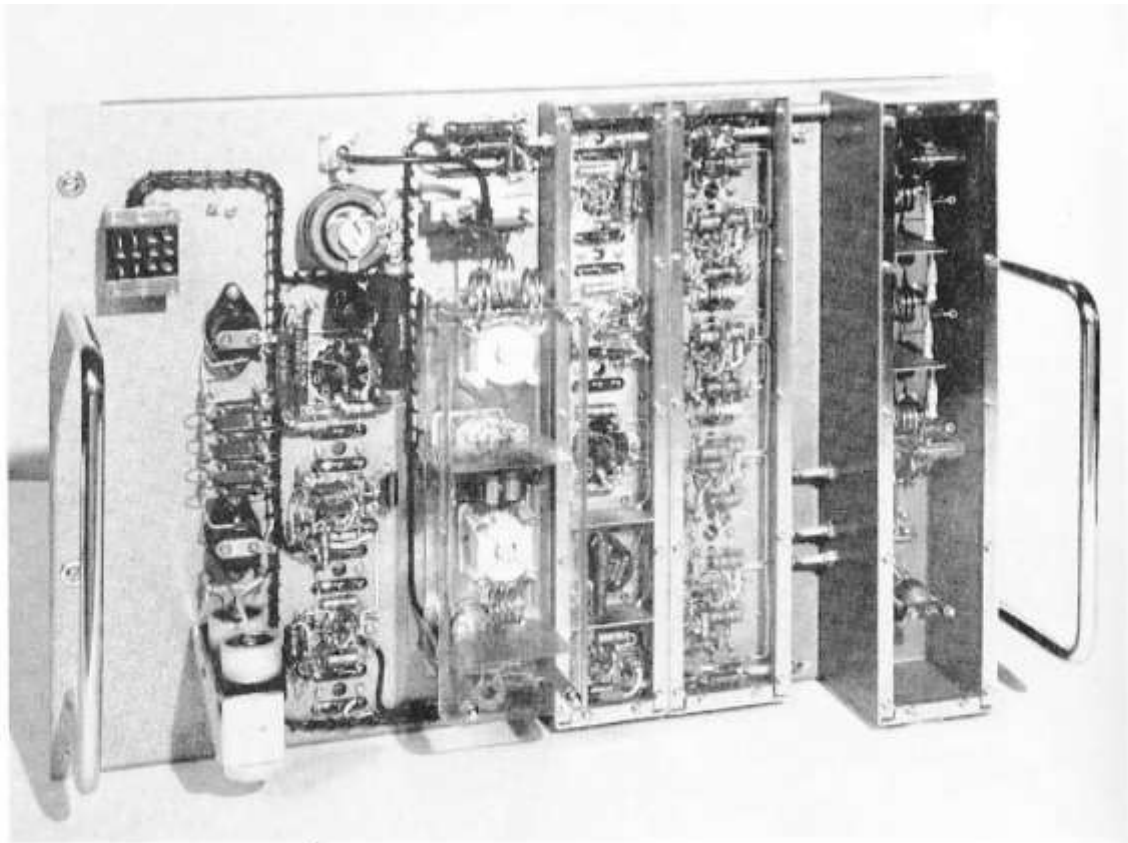
All the successful exhibits were on



In the junior grade of the scientific instruments and components class David Porter's torque connector assembly received a certificate of merit

John Palmer's reset motor assembly was awarded the Silvanus P. Thompson prize and also first prize in the senior grade of the scientific instruments and components class





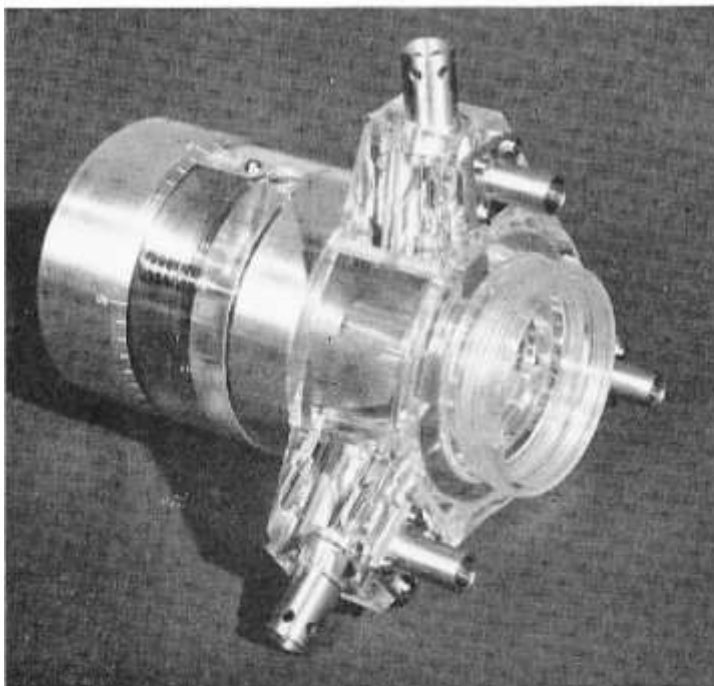
This interesting piece of equipment is Jack De'Ath's translator unit, winner of first prize in the senior grade of the electronic circuitry class.

display at the Physical Society exhibition in January, and subsequently for a few weeks at the Science Museum.

Our warmest congratulations to all concerned on these excellent results.

The Physical Society was founded in 1874 to advance the study of physics and the dissemination of physical knowledge, and to form a central point of contact for physicists of all nations. Publication of the *Proceedings of the Physical Society of London* started at once, the initial paper being one by J. A. Fleming, later Sir Ambrose Fleming, well known also for his work with Marconi to establish the Poldhu station for the first transatlantic radio signal. President in 1901 was Silvanus P. Thompson, founder of the prize for which our apprentices have competed so successfully.

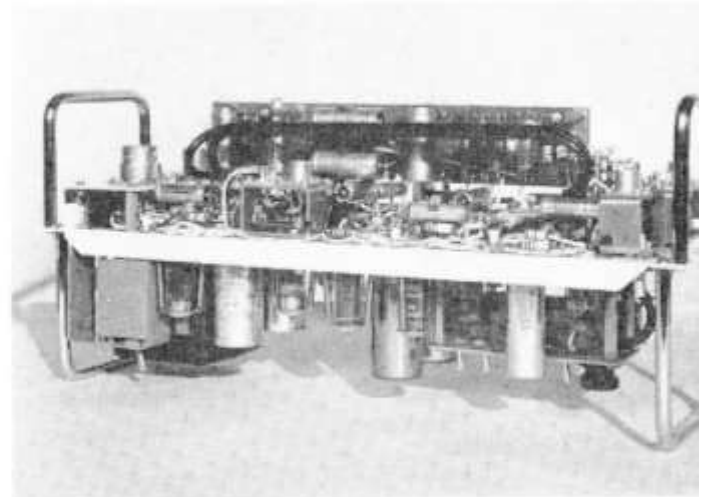
Among scientists who have long been connected with the Society are E. N. de C. Andrade, former scientific adviser to the Scientific Research Department of the Ministry of Supply; Sir Edward Appleton, Vice-Chancellor and Principal of Edinburgh University; Sir Lawrence Bragg, Cavendish Professor of Experi-



A certificate of merit in the senior grade of the scientific instruments and components class of the Physical Society Competition was awarded to Tony Raven for this oscillator 4220

mental Physics at Cambridge; and Sir John Cockcroft, well known for his work in atomic research at Harwell and now Master of Churchill College, Cambridge.

Last year the Society amalgamated with the Institute of Physics, under the presidency of Sir John Cockcroft. Particulars of membership, of which there are various grades applicable to different standards of qualification and professional experience, may be obtained from the offices of the Institute and Society, 1 Lowther Gardens, Prince Consort Road, London S.W.7. There is also a grade for students, open to those taking a recognized course of study at a college or university.



Second prize in the junior grade of the electronic circuitry class was awarded to John Cross's blanking and sync. mixer

S.H.A.P.E. Contract for M.I.

JUST BEFORE CHRISTMAS the news was released that M.I. had received contracts worth approximately £100,000 from Supreme Headquarters Allied Powers Europe for telecommunications test gear to be used on the N.A.T.O. radio communications network. The instruments supplied will include quantities of the white noise test sets, signal generators covering both the VHF and UHF bands, and universal bridges.

M.I. and CMC Sign Agreement

MARCONI INSTRUMENTS LTD., under a recent agreement with Computer-Measurements Company of Sylmar, California, will manufacture their range of transistorized electronic counters.

The agreement covers a ten-year period, and also includes provision for the exchange of engineering information

on similar products as these are developed.

Computer-Measurements have built up a reputation for progress in counter and frequency measurement, and the addition of their electronic counters to the M.I. range will extend our coverage in this important field. M.I. will enjoy world selling rights for the equipment outside North America and Japan.

D. Bissett, Engineering Group A, and J. Littlechild, Calibration, representing Engineering and Production, recently visited CMC to exchange ideas on certain of the CMC counters.

Xenon, X-ray, Xylograph

IT IS ONLY FITTING that a comprehensive work dealing with every branch of knowledge should include the latest advances in X-ray equipment and, following a request from *Encyclopaedia Britannica*, a photograph of the M.I. Image Amplifier has been supplied to them for publication in the *Britannica Book of the Year*.

Kinabalu Climb

by G. D. NUTT, *Singapore Office*

STAFF FROM THE Singapore office will soon be cutting their way through the jungles of Borneo to carry out a VHF broadcast survey in the northern area of Mount Kinabalu.

Ho Lye Hon and I flew there early in December to find a suitable site on Mt. Kinabalu for the 900-watt survey transmitter. The Posts and Telegraphs Department has already shown great initiative in setting up a VHF relay station on the mountain at about 7500 feet, but transport is the problem and in that difficult country all materials and

stores must be carried by coolies.

Our aim was to find a position further up the mountain in order to obtain better VHF coverage, at the same time bearing in mind that the relay station's small staff would be responsible for the maintenance of the transmitter.

We had equipped ourselves before leaving Singapore with such necessities as jungle boots and sleeping-bags, as the nights on the mountain are very cold, and on arrival at Jesselton in North Borneo, we were informed that thirty miles of narrow mud road, which winds up to a height of five thousand feet to the point where the climb was to start, had been closed to vehicles because of heavy rains. However, with special permission and a Land-Rover we were able to make a start.

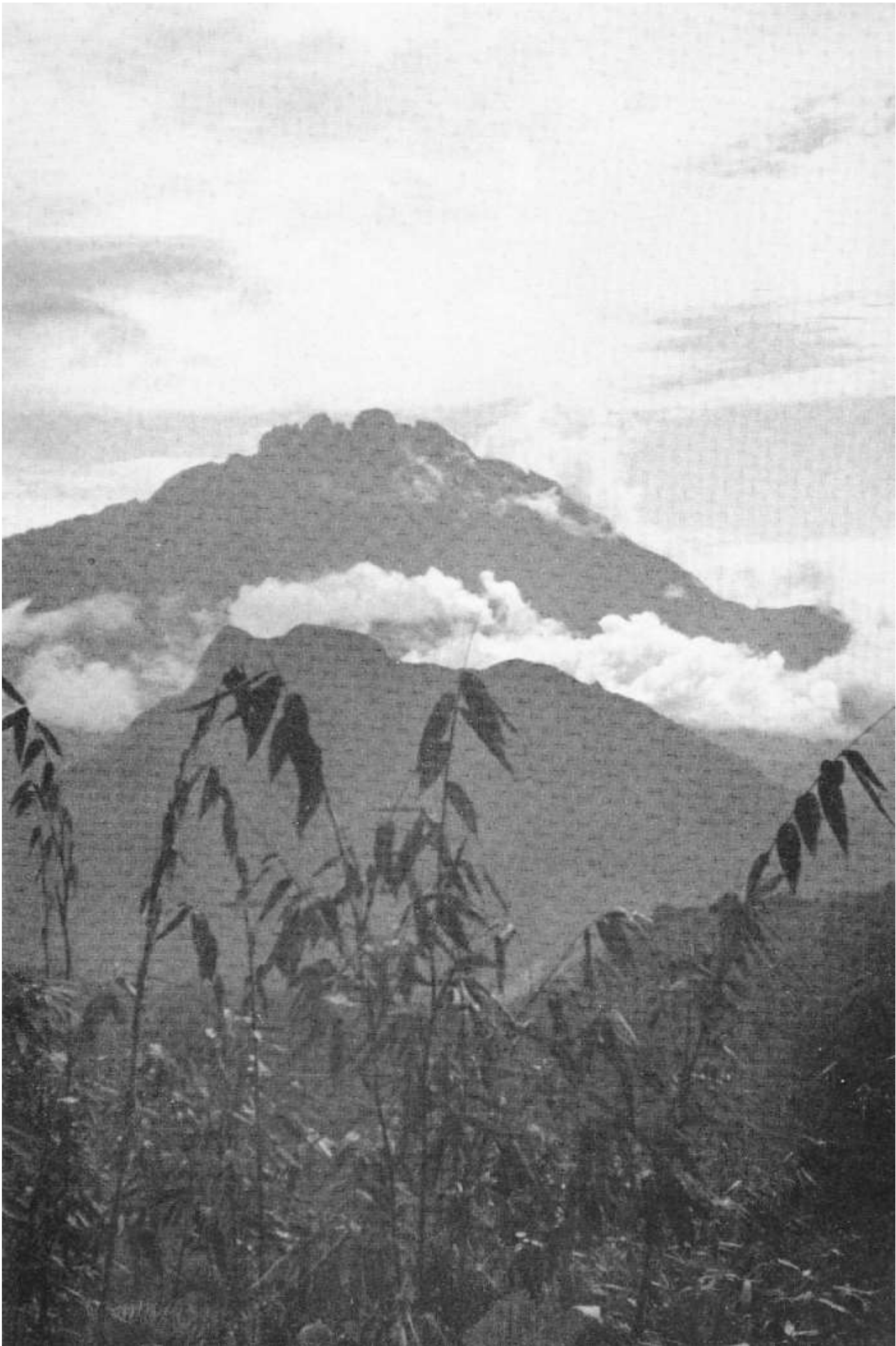
Leaving at six-thirty next morning we had an excellent road to the village of Tamparuli, and here branched off on to the mud track with its red-brown surface deep with ruts and potholes. The vehicle bumped and jolted along at an average speed of ten miles an hour; a sheer drop on the near side at many points did nothing to make the journey any easier. As we got higher, the mud gradually turned to a mixture of hard earth and stones which made the going steadier.

Except for one puncture the ride was uneventful, but I shall never forget the sight of Mount Kinabalu in the early morning sunshine, with vast areas of

G. D. Nutt fixing the position of the transmitter site. On the left is a P. and T. technician and in the foreground one of the coolies



Cloud swirling round the peak of Mount Kinabalu in the early morning sunshine and vast areas of jungle in the valleys far below. The mountain was obscured by cloud most of the day



jungle and cloud in the valleys far below.

It was eleven o'clock by the time we reached the scattered village of Bundu Tuhan, which was as far as we could go with the Land-Rover. There we had a rest and a sandwich lunch in a potato storage hut, belonging to a Catholic Mission which runs a very successful market garden business. The climate at that height is cool enough for vegetables such as cabbages and tomatoes.

Soon we were joined by our Dusun guide and coolies who loaded themselves with our baggage. Then in single file we set off into the bush.

A narrow track had been cleared, but even so the mud and the entanglement of slippery tree roots made the going slow and difficult. The guide led on through a bewildering mass of undergrowth and tall trees supporting giant creepers. Sunlight penetrated with difficulty; only occasionally was the never-ending green of the foliage broken by small clumps of yellow flowers or by patches of bright red leaves.

For the first two hours the track was a series of steep ascents and descents, and only became a continuous climb towards the latter part. It was thirsty work and our water bottles were frequently in use. We did not see any snakes or other wild life, only a few leeches and the occasional small bird which the coolies shot at for fun with blowpipes and pellets.

We heard the most pleasant sound of diesel engines in the distance, and then sighted the aerial masts in a clearing above us. When we reached the relay station we had been climbing for nearly four hours, and received a warm welcome from the four technicians who made up the station's staff. Cups of coffee and a bath in a bucket of hot water revived us, and Irish stew with rice and Chinese fish made an appetizing meal.

Ho Lye Hon, Singapore office, centre, with two of the Dusun coolies

Next morning the climb continued. Rain and low clouds made the jungle misty and colourless. The trees gradually became shorter as we got higher and occasionally the undergrowth gave way to bare rock. At about 8800 feet I found a small clearing, but it was now raining hard and high ground was completely in cloud, so I could not take bearings or fix the position accurately. Nevertheless, making a rough assessment, I considered it to be a likely place, and we made our way back to wait for better conditions.

Daily, about 9 a.m., cloud envelops the high ground and rain usually falls; it is not until late evening that the mountain peaks are again visible. Thus, to be sure of good visibility, it was essential to arrive at the site by 7 a.m.

Starting out as soon as it was light next day we found that the summit of Kinabalu was obscured by clouds. Knowing this to be unusual for the early hours of the morning, I was rather disconcerted. We reached the site once more, and fortunately the cloud had





The chosen site at 8800 ft. on Mount Kinabalu [Photographs by G. D. Nutt]

cleared sufficiently to enable me to decide that the position would be satisfactory for the survey. We had arrived only just in time, for within a few minutes the peaks again disappeared in swirling clouds and were not seen until late afternoon.

There was a wonderful sunset that evening. The white billowing clouds, which filled the valleys below the station, accentuated the gradual changes in the sky around us. It turned through pale blues, pinks and yellows to dark shades of red and orange.

On the return to Bundu Tuhan it was difficult to decide whether descending the narrow, slippery, root-strewn track was not just as strenuous as climbing it.

However, we made better time and reached the potato hut in three hours. It was a welcome sight and, after a wash in a nearby stream and a change into lighter clothing, the Land-Rover took us back to Jesselton.

The Posts and Telegraphs Department is now going ahead with the not easy task of humping material and equipment up to the site. Up there they will erect a hut for the transmitter, a mast to take the single stack quadrant aerial, and a 6 kVA diesel generator. We expect to complete the installation of the equipment by the beginning of February when the actual survey will commence, and it is hoped we shall then be able to tell you a little more about North Borneo.



(By courtesy of Borough Engineer)

Expanding the Span

ABOVE: For the past fifteen years the congestion at peak hours under New Street bridge has caused ever-increasing traffic jams and inconvenience to pedestrians. BELOW: The old brick arch and abutments have been completely dwarfed by the new steel structure, and the Borough Council is making a new roadway sixty feet wide including two fifteen-foot pavements. The new kerb can be seen on the right, behind the concrete blocks. A section of the M.A.S.C. club house (on the extreme right) had to be demolished to make way for the new road.



At Writtle since A.D. I

E. H. TRUMP, who retired recently after forty-one years with Marconi's, was well known throughout the Company, not only as a development engineer who had served at Writtle since 1919 but also as an archaeologist and an expert on the growing of cacti.

During the first world war Mr. Trump served with the R.F.C. and R.A.F. in France as one of two officers in charge of airborne and ground radio equipment, and it was there, at St. Omer, that he first met the Marchese Marconi. In 1919 he joined M.W.T.'s new Aircraft Department at Marconi House in the Strand, but soon moved with the designs section to Writtle where he was based until his retirement. His only absences, he says, were to install the first radio transmitter at Croydon and to demonstrate early airborne radio equipment in Spain.

Mr. Trump has some interesting memories of Writtle forty years ago. 'The Aircraft Department', he says, 'at first consisted of Captain Furnival, Colonel Childs, Major Prince and H. C. Van de Velde stationed in London, and Captain P. P. Eckersley, A. W. Whistlecroft, C. Price-Smith and myself at Writtle, most of us former R.A.F. officers. The very first sets we produced were the AD1, a two-valve transmitter, the AD2, a receiver with V24 and Q valves, and the AD3, a combination of these two. Although the apparatus was actually made at New Street, Writtle was responsible for design, testing, installation, and demonstrations.'

The surroundings in which all this work took place appear strange to modern minds. 'Writtle was a bit primitive when we went there', Mr. Trump tells us. 'Our accommodation was a long army hut with an office at one end, a workshop at the other and a



B. N. MacLarty, Engineer-in-Chief, right, presents a cheque to E. H. Trump on the occasion of his retirement

drawing office and laboratory in the middle. There was no main electricity supply, no sanitation and, for a time, no water. What power we had was provided by a petrol engine and a 100-volt DC generator, but even so the lathe was driven by pedal. The first variable signal generator I devised was a buzzer wavemeter set on a little trolley running along a plank outside the window; the trolley could be pulled to and fro by an endless piece of string operated from inside the hut, and the measurement of H.F. input to a receiver was the distance of the wavemeter when you could just hear the signal.'

Quite a contrast to the Aeronautical Division's present set-up at Basildon!

Mr. Trump is a member of the Essex Archaeological Society, and readers will remember the article on digging at Pleshey Mount which he wrote for our Christmas issue in 1959. His retirement gives him opportunity to pursue this interest further afield and he is at present visiting his son, Dr. D. H. Trump, who is curator of the National Museum, Malta.



A Division Unites

MARCONI AERONAUTICAL DIVISION has moved to Basildon. In the new building, which has been erected next to the factory, are now grouped very nearly all the people who have served the Division in Croydon, Writtle, New Street and B Block, Basildon.

Together under one roof are Dr. B. J. O'Kane, Manager, Aeronautical Division, and his executive staff, the Sales, Contracts and Commercial Groups, the laboratories and workshops of the Development Groups, the Drawing Office, Technical Services Group, Post Design Services Group, Air Traffic Control and Special Products Group, Aeronautical Services Group, the Technical Information Group and the Training School.

Certain changes have taken place: F. Wheeler becomes Deputy Manager; G. P. Parker, Manager, Engineering Co-ordination with general responsibility for all technical aspects of the Division's work; L. R. Mullin, Chief Engineer, Aeronautical Development

J. T. Willers, centre, Chief of the Test and Inspection Section formerly based at Croydon, is seen here with two of his colleagues who have also come from the Surrey hills to the Essex flats. C. H. Cole, right, is Chief Storekeeper, responsible for all spares and stores of the Aeronautical Services Workshop of which A. T. Kingshott, left, is Supervisor





ABOVE: This is the impressive front that Marconi's now shows to those who travel along the Southend arterial road. On the right is the new building which houses virtually all Aeronautical Division who, until recently, were disposed between Croydon, Writtle, New Street and B Block, Basildon, which is on the left of the picture

BELOW: This three-ton climatic test chamber, of which only about five exist in this country, was formerly at New Street and is now installed in Aeronautical Division's Environmental Test Laboratory. It is capable of simulating any sort of atmospheric condition. H. Waller, in charge of Environmental Test, is about to check the performance of a doppler AD2300 under conditions of extreme cold



(C); G. E. Beck, Chief Engineer, Aeronautical Development (N) with E. G. Walker as deputy; J. H. Gill, Service Manager with responsibility for all after-sales services including Post Design Services, training and installation; A. F. Farrell, Deputy Service Manager; J. Lamsdale, Group Leader, Technical Services Group, which combines the former Systems Planning and Service Maintenance Groups; F. J. Tompsett, Group Leader, Post Design Services Group; E. Swinney, Systems Manager with responsibility for air traffic control matters, airport and other ground project planning and special projects concerned with airborne doppler appli-

cations; T. G. Poulter becomes responsible to E. Swinney for ground projects; B. J. Infield, Sales Manager; J. H. Court, Deputy Sales Manager; K. S. Gray, Deputy Group Leader of General Sales Group; C. A. R. Mackley, Contracts Manager responsible for all aspects of airborne and ground equipment orders and contracts; B. R. Carey, Group Leader, Commercial Group, dealing with stock, costing and general financial and budgetary matters; W. L. Munday takes charge of the Aeronautical Services Workshop with responsibility for the loading and general supervision. He will also be responsible for the loading of the Development Workshop. A. T. King-

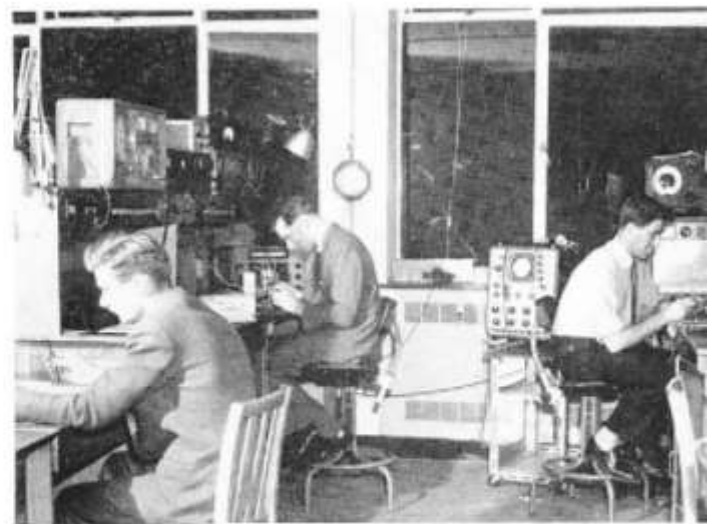


Technical Services Group combines the former Systems Planning and Service Maintenance Groups. Left to right: N. Catley; J. Lamsdale, Group Leader; K. Reid; F. Farrell, Deputy Service Manager; G. Chapman; P. Creek; M. Thornton and R. Shead. Absent friends are out on jobs



ABOVE: From Writtle, too, have come G. Payne, Chief Draughtsman, and the Drawing Office. Here are some of the draughtsmen in their new surroundings

BELOW LEFT: Basildon is no 'new' town to the members of the Contracts Group who went there in 1954. They have now moved into the new building. BELOW RIGHT: In the Receiver Section of the Airborne Communications Development Laboratory, which has moved from Writtle to Basildon, work is being carried out on the Sixty Series VHF receiver



shott becomes Supervisor, Aeronautical Services Workshop and C. L. Fenton, Project Officer. It is a happy arrangement that brings the Division together

alongside the factory manufacturing the bulk of the Company's aeronautical equipment, and one which cannot but result in improved efficiency.



Judas comes to Christ as his friend and betrays him. This scene from the Oberammergau play brings vividly to mind the savage events leading up to Christ's execution and return to life, celebrated by us at Easter [By courtesy of Hans Huber, Diaverlag and Verkehrsamt Der Gemeinde, Oberammergau]

IT IS INTERESTING to talk to people who have been to see the play at Oberammergau and to hear of the colossal project which is carried out there every ten years. All tell of the realism, enthusiasm and artistic merit with which it is done by the famous villagers who, since 1633, have kept their vow to God that if he would save them from the plague they would perform the play.

A number of people from the Companies went last year. Among those at M.I. were Mrs. R. Kennedy, Despatch, Irene Baker, Model Shop, and Peter Brown, Chargehand, Winding. Two people from M.W.T., Photographic, Audrey Bevan and José Trott, went by coach and made their holiday of it. They bought tickets which also gave them lodging in a newly built but typical, pinewood, private house with a balcony

Easter scene

overlooking the mountains. But there was no time for view-gazing. They went to the theatre after breakfast: the show was as long as a day's work, it started at 8.15 and finished at 5.30 with a break for lunch. There were eighty-one performances in the year and on some days there was a turnround overnight of the five thousand two hundred people who saw the performance. Traffic is strictly controlled in the village and everyone walked to the theatre.

The auditorium is covered, but the stage is open and the backcloth is the mountains and the peaks.

In this setting a cast of seven hundred with a full chorus and orchestra reproduced the intrigues of Christ's betrayal, his trial and death, and his resurrection.

A Slice of Life

BERT SIMS was busy wiring an instrument in M.I. Assembly instead of in his usual place in the Jobbing Shop. It was surprising to find him looking so young after his twenty-five years in the Company. Of course it is not possible to have been in the firm for a very long time because Marconi-Ekco Instruments Ltd. was not formed until 1936 and it was 1941 before the name was changed to Marconi Instruments Ltd. But Bert joined E. K. Cole Ltd. in May 1935, transferred to Marconi-Ekco in 1937 and ever since then he has been busy wiring instruments. Quiet and steady, it is typical



From the little town of Lermoos, tucked away in the Austrian Tirol, one can look towards Ehrwald through the valley which is formed by Germany's mighty Zug Spitze, 9724 feet, on the left, and Austria's Sonnen Spitze, 7922 feet, on the right [Mrs. Doris Stebbings, Chemistry Lab., Basildon]

that Bert should have been among the twenty volunteers who acted as advance party when the Company transferred from Southend to St. Albans in June 1940. On removal day Bert and a party of girls arrived at St. Albans station with their luggage, hesitated at the macaroni works opposite and walked down the road to what was to be their new works. They opened the door and were nearly knocked over by the pungent pong—it had until a few days before been used for preparing herbs. They piled their cases in the lift and got in after them. The lift started to go up, then stuck between the floors. Some of the girls cried. What a day!

Bert wanted to join the Royal Navy but he was found to be unfit so he worked very long hours at wiring TF 144s and TF390s and between times attended to Fire Service duties. Only a little while ago he was pleased to see that some of these old instruments were still

in operation. Later on his wife Stella joined him at M.I. and worked for many years in Winding.

Following in father's footsteps at M.I. is Michael Sims, who is an apprentice in the Tool Room and has just passed his fifth year City and Guilds.



A number of people who came with Bert from Southend are still here and they form a nucleus of ever increasing know-how that has stretched down through the years. A state, we hope, long to continue.

Warming the house

AERONAUTICAL DIVISION held a house-warming party in their new building at Basildon on Friday evening, 27 January. Non-aeronautical husbands and wives were invited to see where their aeronautical wives and husbands work and to enjoy the really excellent refreshments which the canteen provided.

Interest and amusement were aroused by the electronic exhibits organized by the development engineers who devised, among other things, a reaction tester for use before and after visiting the bar, an electronic musical box and a sex detector, which, we understand, did a first-class job of deduction provided dresses were worn short and trousers long.



Mrs. Farrell, wife of Aeronautical Division's Deputy Service Manager, sends a top A rippling through the microphone which, together with the transmitting apparatus, is a replica of that used by Dame Nellie Melba at New Street in 1920 [R. L. Wall]

Chef George Hearn steps forward to offer refreshments to E. B. Greenwood, left, Brian Carey, David Candy and guests, and Dr. B. J. O'Kane, right [R. L. Wall]





Grouped around the Marconi-type cocktail bar at Aeronautical Division's housewarming party are, left to right, Jack Gale, Mrs. Lowe, Mrs. Gale, Mrs. Betty Haynes and Graham Lowe [R. L. Wall]

Attention, All Veterans!

WE HOPE YOU will roll up in record numbers for your silver anniversary. The twenty-fifth Veterans' Reunion takes place on Saturday, 22 April, at the New Street Works. Members will assemble at noon for lunch at 1 p.m., followed by the usual entertainment. The annual general meeting at 4 p.m. will be presided over by E. Praill, who retired from Accounts Department last year. Invitations have been sent to all veterans whose addresses we know, and we look forward to seeing you all.

Expedition's Leader Missing

THE LEADER of the British geological exploration expedition to Patagonia, Peter Henry, Technical Sales, M.I., has been reported missing and is feared drowned. Peter left St. Albans last October and was expected to return in April. Readers will remember an article concerning his

plans which appeared in the September issue.

The purpose of the expedition was to carry out scientific work and mountaineering exploration in the Southern Andes and Prince Philip has shown his interest in the scheme. The Chilean Army commander in the area has reported that Peter disappeared while returning by boat across Lake Norden-skjold to his basecamp near the Magellan Straits. Wreckage of the boat has been found.

Peter, aged twenty-seven, joined M.I. in 1957 as a special trainee, took a course at Marconi College, and then joined the Technical Sales Department in 1959. He served with the Royal Marine Commando Cliff Assault Wing, was a member of the Climbers Club and helped found the M.I. Mountaineering Society.

His many friends at M.I. extend their sympathy to Peter's relatives at this distressing time.

Approved to British Standard

RECENTLY an M.I. engineer bought some pillows and was not amused when the feathers started to seep through the covers. Since he had chosen pillows with the 'Kite' mark on them, which indicates that the product is made to comply with a British Standards Institution recommendation, he got in touch with B.S.I. A representative promptly investigated and arranged for the pillows to be changed.

This is, perhaps, an unusual though logical undertaking for the B.S.I., as its principal objects are, to quote from its own words, 'To co-ordinate the efforts of producers and users for the improvement, standardization and simplification of engineering and industrial materials'.

The ramifications of the B.S.I., which was founded in 1901, are now widespread and M.I. people, as well as being users of pillows, have been invited to serve on

B.S.I. committees as representatives of professional and trade associations. E. A. Rea-Palmer, Manager of the London and South Area, is, for instance, chairman of the Telecommunications Measuring Instruments Steering Committee and is also on two sub-committees. Also a member of the two sub-committees is D. P. E. Brown, Technical Literature, A. G. Wray, Deputy Chief Engineer, serves on a number of committees concerned with radio and electronics. H. I. C. Howgate, Standardization, is a member of the Technical Committee on Materials and Finishes for Electronic Equipment and Components, and several other M.I. people attend meetings connected with the electronics industry.

The recommendations made by all the B.S.I. committees, of which there are now nearly 3000, enable manufacturers to produce better products of all kinds; and users, especially overseas, to buy products made to a recognized standard of quality—A British Standard.

The International Electrotechnical Commission Working Party on Signal Generators—which works in conjunction with the British Standards Institution—recently met in London and also visited M.I. where they are here seen discussing a new signal generator. Left to right, R. Chaffey, Export Manager, E. A. Rea-Palmer (in front), London and the South Area Manager, A. Haviland, Proprietary Engineering Manager, of M.I., Mr. J. L. Leistra (Netherlands), Professor A. Ilovici (France), Mr. E. S. Ward (Standard Telephones and Cables Ltd.), Mr. A. Pokrovski and Mr. P. Seleznev (U.S.S.R.), Mr. R. Leonhardt (Germany), Mr. D. M. Rhind (British Standards Institution), and J. R. Christophers, M.I. Technical Sales Manager



First time in Australia

Colour TV Unit Aids Surgery

by Peter J. White, with photographs by Keith Soutter, both of
Television Demonstration Unit, Pottery Lane



SIX MEMBERS of the T.D.U. formed the operating team of the mobile colour television unit which toured the larger hospitals of Australia for three months.

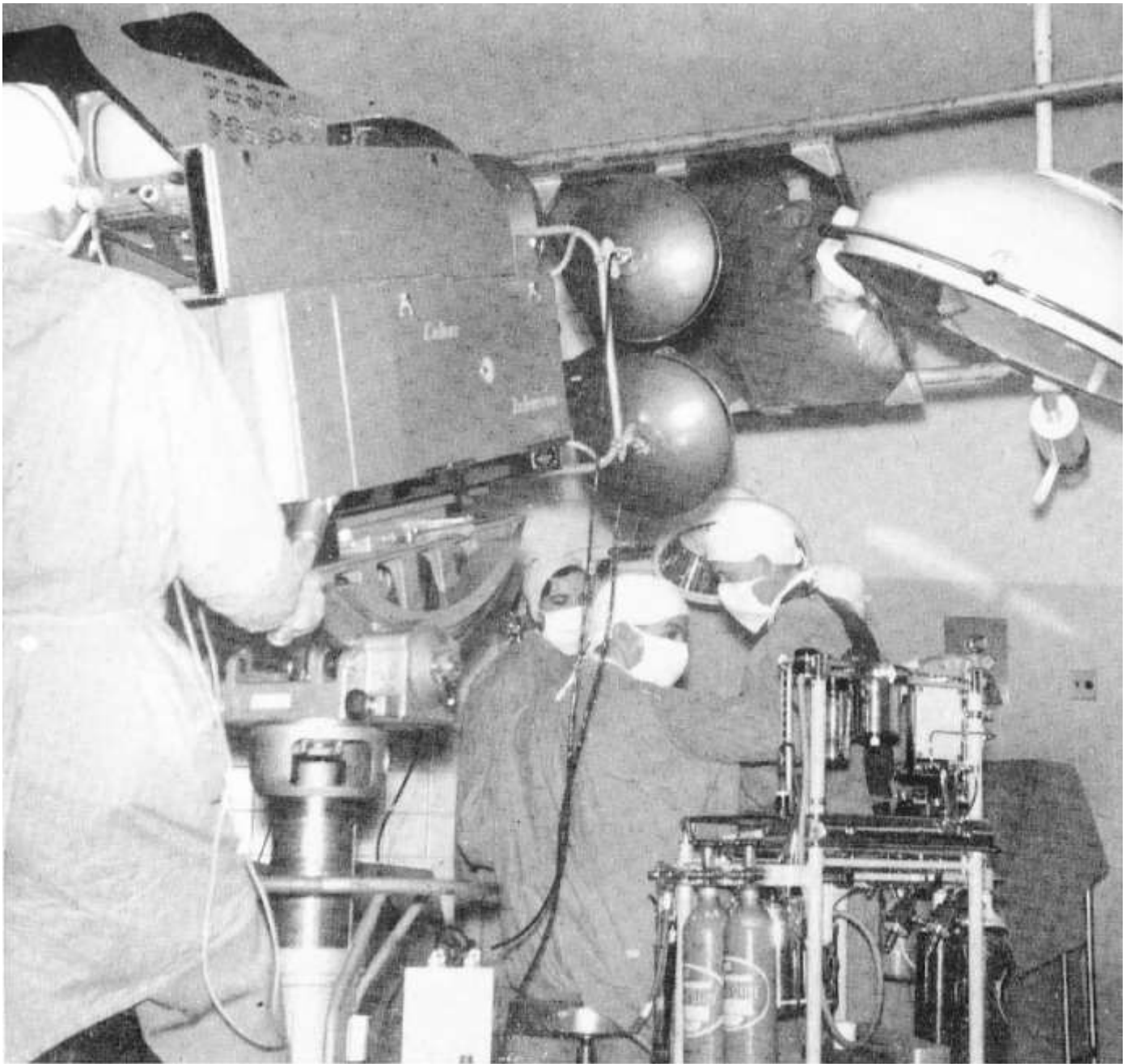
Four of us, Kiwi Armstrong, Keith Soutter, John Winn and myself, reached Adelaide after a long non-stop journey by air, and were met by the two earlier arrivals, John Howe and New Zealander Ross Isles.

Three days later we watched the colour vehicle and its accompanying pantechnicon unloaded from the ship after its 12,000-mile, five-week trip from London. A dockside warehouse in Port Adelaide was the unromantic setting for the first colour television studio in Australia as, surrounded by sacks of phosphates and crates of fireworks, we set to work to check the equipment and to train our two Aussie cameramen recruits, Bob Nixon and Alan Lynch.

The mobile medical colour television control van near the north end of Sydney harbour bridge. This mobile unit was designed and engineered by Marconi's and is operated by us for Smith Kline and French Laboratories Ltd. The bridge has two railway tracks and a roadway with three lanes in each direction. There are 52,300 tons of steel in the construction

Satisfied with the gear but with some apprehension, we drove into the city and installed ourselves at the Royal Adelaide Hospital. We need not have worried; all went smoothly, due in no small part to the generous help we got from the friendly South Australians. Medical and technical visitors alike enthused over the results, and one registered astonishment that we used the 405 line system. He obviously harboured distorted views on the 'primitiveness' of the British system.

Word spread, and we were besieged in the colour van by a stream of visitors.



My diplomacy waned after I had spent some time explaining things to two chaps I took to be from one of the local commercial channels, but who turned out to be apprentices from a nearby radio dealer's.

It was pleasantly cool in Adelaide, but our hotel barman said that it had 'been bitterly cold—as low as 45°F'. On our odd days off we managed to see a little of the country around the city—much of it rather like Surrey. We were surprised at the number of continental immigrants—every fourth person in the streets seemed to be Greek, Italian or Maltese.

So the time came for us to unrig and pack our cables and equipment, and move on to Melbourne. Within hours we had flown six hundred miles, settled into another hotel, and were awaiting the arrival of the vans by road.

The brand-new nine-storey Royal Melbourne Hospital seemed formidable from the point of view of rigging our cables, considering that one camera was to be on the ninth floor and one on the third. It was our practice to look at an actual operation with one camera while the surgeon and anaesthetist explained proceedings, and to rig a studio of

scaffold poles and curtains for the other camera to look at a panel of medical experts discussing the points of interest of the operation. The studio needed a great deal of light and Keith, our lighting engineer, was undisputed king of activities here. While John Winn and I controlled the pictures in the van, Kiwi would sit at his projector elsewhere in the hospital watching the audience's 6 ft. \times 4½ ft. screen and hurling abuse at us down the telephone for our 'dreadful pictures'. John Howe officiated amongst the more complex equipment in the van, which he had had a hand in designing three years earlier; and Ross allowed few others to touch his six microphones, which he rigged with the air of an artist.

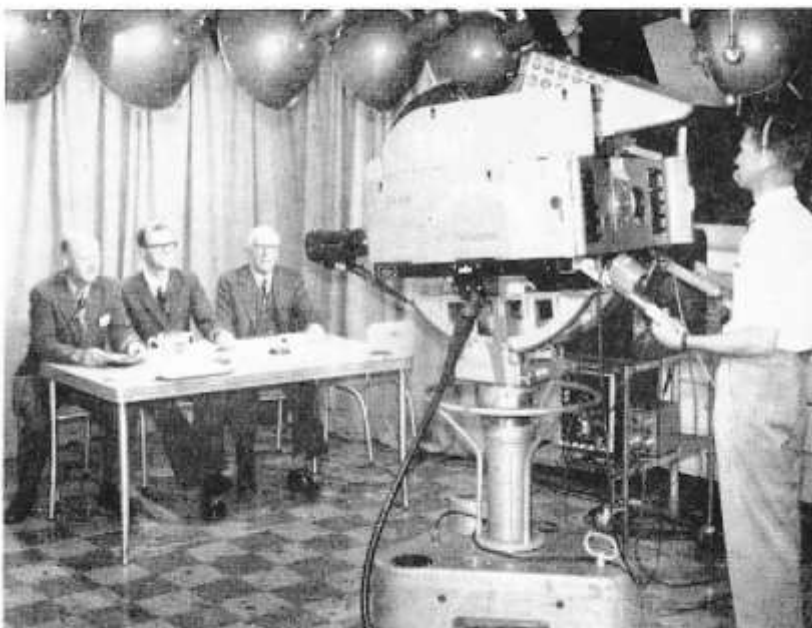
Technically everything went without a hitch on the Melbourne programme, but the Melbourne weather did not. It was cold and wet for most of our stay there, and we saw little more than the city during our leisure time. Collins and Elizabeth Streets provided most of our nights out and I, for one, caught up with the stage production of *My Fair Lady* there.

Another seven hundred miles north-east and from the air we had our first sight of the sprawling city of Sydney,



The Page chest pavilion of the Royal Prince Albert Hospital, Sydney. The operating theatre is on the first floor, the studio on the fourth and the lecture hall in the nurses' home, a 1400-foot cable-run away

New South Wales, with its magnificent bridge dominating the skyline. With a few days in hand we had been asked to set up the colour television for a variety show, put on for the benefit of the staff of Smith, Kline and French (Australia).



OPPOSITE: The colour camera, televising an operation in progress, trained on the mirror above the operating table

LEFT: The studio at Sydney with the panel of experts watching the progress of an operation on the screen, commenting on it, and answering questions relayed from students who were also watching in the lecture hall

LEFT TO RIGHT: Peter White, camera control, checking camera head amplifiers

Keith Soutter fixing special lighting to the theatre colour camera

Kiwi Armstrong with the link aerial used at Melbourne as a means of crossing the main road when we could not lay cable to the lecture hall in the University grounds opposite

who were our temporary employers for the tour. We foresaw problems; this was the first show of its kind for us, as well as for Australia. But it was more successful than we dared to hope, and with Jock Millett, our ex-B.B.C. producer, at the reins we turned out a production that would have done credit to any broadcasting concern.

Pleased with our success to date, but in need of relaxation after some late nights maintaining the gear, we were glad when the opportunity came for time off while the vans took the road to Brisbane, Queensland. Surfers' Paradise, on the east coast, sounded just the place. So for three short days we cooked ourselves on a sandy beach, swam in the Pacific, ate too many steaks and took in a long-to-be-remembered launch trip with a hundred young holiday-making Aussies. Too soon we had to board a



rattling coach to Brisbane and another session of colourful operations.

The capital city of Queensland has an atmosphere all its own. The dusty heat, the sleepiness and the old-style shops where one can buy sombreros, high-heeled boots and saddles remind one of a Wild West pioneer town. In fact this wasn't far from the truth; during our ten days there, John Howe and I saw a full-scale rodeo, including steer-throwing, bucking broncos and everything dear to a small boy's heart.

The Brisbane General Hospital staff gave us a friendly welcome and all the help we needed, as we set about disorganizing their establishment to rig our cables. Our real snag here was the heat, as the van had to stand in the sun all day. At one time the temperature inside was over a hundred degrees and technical and production staff worked stripped to the waist.

We were lucky to have time for a trip to the nearby koala bear sanctuary. These likeable creatures, protected by the government, were well worth seeing.

The climax of our tour was a four-week session at the Royal Prince Alfred Hospital in Sydney. Once more we packed the vans for their last long





journey on the Australian continent, and our suitcases for another short hop by air to the largest and busiest of Australian cities. Here we had been offered accommodation by the hospital authorities and, late one night, we found our way to the fifth floor of a modern seven-storey hospital block in a Sydney suburb.

This time the rigging of the equipment was a comprehensive task. Cables had to be run along subterranean tunnels linking the buildings and, in all, over one and a half miles of cable were painstakingly hooked up—mainly between the van and the audience hall. For this show Kiwi's projector had to be installed in the nurses' home, two streets away. A fast and furious programme of surgical and clinical events followed. More than half our total programme for the tour was presented at this hospital and included a spectacular open heart operation.

By this time we were well into the Australian spring and were able to enjoy the countryside, and particularly the beaches with their unlimited supply of sun, surf and sand. Four of us, too, had a memorable trip to the Blue Mountains, sixty or seventy miles out of

Sydney. In town we plagued the Qantas airline office, continually changing the routing of our homeward trip. We shopped for gifts to take home, our imagination running mainly to boomerangs, toy koala bears and gaudy beach towels.

Suddenly the last programme was over and we packed the gear for the last time. Over beers that evening we reviewed the past three months and agreed that, all things considered, the tour had been more successful than we could possibly have anticipated, although we had our close shaves and moments of panic. Not once were we late 'on the air' for technical reasons and in fifty-three hour-long programmes only two minutes or so of transmission time were lost through equipment failure.

Practically every Australian newspaper featured our activities at some time or other, and we appreciated the praise given us by Australians who saw the results of our efforts.

The Australian Smith, Kline and French Company have insisted that we return for a second and more extensive tour in 1962. If all goes well, we'll be glad to!



Do you see yourself in the Baddow Home Guard? The records, in some cases, lack initials and we have not been able to trace everyone, but at least fourteen are still with the Company. Back row, left to right: — Clements, — Dowsett, F. R. Quilter, L. H. Warner, L. J. Dodd,* W. S. Goswell, H. Hughes, H. S. Clarke, — Burr, J. Edwards, E. S. Churcher,* — Mason, J. A. Pearson, — Driver, Middle row: C. R. Ince,* G. A. Isted,* M. Samain, — Johnstone, N. J. Beane, — Venn, D. W. Watson, F. A. Watts,* — Stannard, H. J. Gore, J. J. Keating,* D. Windley, C. P. Beanland, C. J. Everitt. Front row: G. Partington, D. H. Godwin, L. H. Whitaker,* F. Underhill, G. N. Knight,* P. S. Brandon,* A. R. Deely, H. W. Cotham, C. J. Spendlove. Those marked with an asterisk are still at Baddow; C. P. Beanland is in Communications Division at Writtle, N. J. Beane is at Hackbridge, and D. W. Watson and A. R. Deeley at Writtle. Several others have retired*

BACKS TO THE WALL

IT IS INSPIRING to find how many people still with the Company were working at Baddow during the war, and formed the Home Guard there. L. J. van Rooyen found he had a picture of them and G. N. Knight, who was C.O. of the Baddow Unit, tells us here how they prepared to meet Hitler in Essex.

* * *

We were a small staff at Baddow in the late summer of 1939. Our Research Department buildings had not long been completed and we were enjoying the perfect weather in our new country setting. But the threat of war overshadowed all, and many of us joined our air raid precautions organization.

The declaration of war on 3 Septem-

ber brought no immediate air attack on this country. Then in May 1940, after the overthrow of France and the wonder of Dunkirk, Mr. Anthony Eden broadcast a call for volunteers to join a force to be known as the Local Defence Volunteers, and a number of us submitted our names for acceptance into the new force. Soon afterwards we were summoned to the entrance hall, and found outside a shooting brake containing a mixed assortment of shot-guns collected from local owners; issued with one each, we were elated to acquire such formidable weapons instead of the pikes and pitchforks with which we had expected to confront the enemy. We were not sure whether to adopt the pose

of sportsmen or of soldiers, but this quandary was short-lived: suddenly as the weapons had appeared, still more sudden was their disappearance.

Nevertheless, some equipment was soon issued, parts of uniform made their appearance, battalions and their composite parts were formed, officers and N.C.O.s were appointed and the force, now called the Home Guard, became an integral part of the army.

Until our own platoon was formed we operated as part of the Baddow village unit, with our duties confined to our buildings and grounds. On alerts we took up strategic positions outside; our instructions—to look out for enemy parachutists. One of our members, the gardener, late of the Grenadier Guards, was apt on these occasions to disappear, complete with rifle, among the branches of a tall tree. We never quite understood his plan of campaign, but who were we to question one with so military a background?

From time to time we witnessed stirring air fights in the battle of Britain. Many took place at a distance or veiled by cloud, but one Sunday afternoon we did get a seat in the stalls. Looking up to find the reason for a great roar of plane engines we were startled to see advancing towards us forty or fifty aircraft in tight formation and flying very low, their markings belying their almost peaceful appearance. Then three Spitfires arrived out of the blue and achieved the apparently impossible by diving clean through the lot, guns firing. The formation broke up instantly, the planes dispersing in all directions, and a minute later the sky was clear; a spiral of smoke from a Spitfire going down in flames was the only sign of the short, sharp engagement.

As the war years dragged on and the threat of invasion lessened, measures became necessary to maintain Home Guard keenness. Our battalion organized a training camp at Braxted Park, where

units spent long week-ends to receive instruction and take part in large-scale exercises. Proficiency certificates were instituted, the standard set for a pass being very high. When our turn came to face the examiners, we knew that each company preceding us had scored only one or two successes. The astonishment at Headquarters was all the greater when our 'D' company bounded into double figures; to be fair, I think the academic training of many of our members stood our platoon in good stead.

When D-Day approached, the Home Guard in vulnerable areas was instructed to occupy certain key positions each night. 'D' company was allocated Bradwell airfield, our turn of duty there falling every seventh or eighth night. The platoon paraded fully equipped at Baddow and set off in a luxury coach, evoking memories of happier days. Arriving at dusk at our site, a church hall opposite the R.A.F. quarters, each man had his particular responsibilities, those not actually on duty snatching a little sleep at odd moments. Bright and early our transport returned us to Baddow where, with a short break for breakfast, we were ready—almost—for another day's work.

One memory of that time has some historical significance. We were waiting to go back to Baddow, but Headquarter's permission to leave the site was not forthcoming and an air of mystery seemed to prevail. After much speculation as to what this could mean we were allowed to go, the delay being explained later by the news that the first pilotless plane to arrive in this country had done so during the night.

Although the Home Guard was not called upon for its primary function, resistance to invasion, the existence of this well-trained force made possible the release of regular army units for service overseas. Those of us who joined the force are happy to have made our small contribution towards victory.



The M.I. fire brigade annual party was as enjoyable as ever when it was held at the Red Lion Hotel on 13 January. With a good dinner safely tucked away, members of the brigade and their supporters settled down to games, dancing to the music of Bill Walker and his piano, and general frivolity under the M.C.-manship of Sid Savage

OLD FRIENDS

Mohinder Kumar Gupta joined the Calibration Department in January and straightaway started work on a batch of TF867 standard signal generators. He likes working in England and feels that he is among friends, the TF867, in particular, being a very old friend, for he was previously employed for six years as a radio technician by the Indian Airline Corporation where he frequently came in contact with this generator. In fact a great deal of the test equipment in the airline laboratories at New Delhi came from St. Albans.

Mohinder was, of course, intensely interested in the Queen's eagerly awaited visit to India and listened until the early hours to the radio commentary. An especial thrill was when the Queen went to New Delhi on 26 January, which is Republic Day, an anniversary made even more exciting by all the pomp and ceremony connected with the visit.

The name Gupta, by the way, will not be found in any personnel records, for his last name was omitted from the Ministry of Labour papers owing to a mix-up when he entered the country. Rather than confuse

People in the Picture: M.I.

matters by having the papers altered he prefers to be known by his first two names, Mohinder Kumar. 'After all,' he says, 'it sounds more friendly.'

EVENING ENGINEERING

How many husbands make their wives' dresses? Leslie Sargent, who spends his working day as a project leader in Engineering Group A, is very likely at home to put his mind to problems of dressmaking. For years he has made dresses for his wife Margaret, and for three-and-a-half-year-old daughter Caroline. Timothy, their six-year-old son, wears woollies mostly so he hasn't yet received father's sartorial attention.

Leslie reckons that dressmaking should be approached with an engineering attitude, for there are stresses and strains and a functional layout to be considered, while the calculations involved are surely in the realms of higher mathematics. Working the sewing machine is also an operation requiring considerable mechanical aptitude.

Men are supposed to be better dressmakers than women and possibly it is because they have steadier nerves. 'It is a jittery business,' he says, 'when you have the dining-room table opened to its fullest extent, the material stretched over it with the pattern pinned, you hope, the correct way up, and you stand there with the scissors in your hand.' The family dressmaking is not, of course, entirely Leslie's responsibility, for Margaret makes it a joint effort by taking over the machine-sewn garment and bringing it to the finished stage—ready for inspection.

Another recent joint achievement on the 'Evening Engineering' front has been the making of loose covers for the Sargent



Congratulations and wedding gifts for Brian Day, G.W. Drawing Office, who married Miss Moira Fletcher on 12 January. The gifts ranged over most of the home and consisted of kitchen scales, a bathroom cabinet, a bedside lamp and a broom. N. R. Bell, Chief of Engineering group F, made the presentation



A twenty-first anniversary on 12 January for David Martin, apprentice in Final Test, so his friends gave him a handsome cigarette case, a lighter that works, and fuel to keep it working. The presentation was made by L. G. Miller, Chief of Electrical Inspection. The grins of some of his colleagues are because the gifts were packed in a very large parcel



three-piece suite, a job that required the most careful measurements and forty-five yards of piping. The smart appearance of the suite with its red and black cushions has made all the trouble worth while, but even so Leslie is glad it will not have to be done again for many years.

ON TAPE

There must be many tape recorder and hi fi enthusiasts at M.I. but we wonder how many of them are as keen as John Murray, Technical Literature. He is a member of the British Sound Recording Association, which is affiliated to, and which meets at the headquarters of, the Royal Society of Arts; he has built a really hi fi tape recorder, with all its associated radio equipment, into a wall between two rooms of his house; he designed and built a mobile tape recorder and also recently acquired a Ferrograph recorder with stereo output.

All this effort and equipment is not allowed to go to waste, for John uses his apparatus, with its special loudspeakers, to supply music at many social functions. For the last three years, for instance, he has supplied the music for the annual Hertfordshire Constabulary children's party. On the last occasion he also amused the young guests with a demonstration of true-to-life stereophonic sound. The M.I. Theatrical Society, of which he is a founder member, has made considerable use of his services.

One of the more important occasions on which John's knowledge and equipment was used was at Christmas-time when the children of Aldenham Church performed a series of tableaux. Valentine Dyal, the B.B.C.'s 'Man in Black', gave his services for the bible readings which introduced each tableau. The readings on this occasion were made on professionally recorded tape but John had to edit it and introduce sound effects which he also contrived. The results were very effective and excited congratulatory comment in the local newspaper.

Twenty-first birthday wishes for 7 January to Diana Winters from all her friends in Assembly. Among the gifts were a travelling case and her favourite Johnny Mathis L.P. record. The presentation was made by G. Coquantin, Foreman of the Assembly Department

WELCOME

The stork is putting in for time and a half at St. Albans and we must congratulate a number of M.I. people. This includes John Macfarlane, a project leader in Engineering Group C, and his wife, who started a family on 2 January with 7 lb. 6 oz. Alastair; John Julian, a project leader in Engineering Group B, whose wife presented him with a son, Ian Haig, on 19 January, weight 7 lb. 9 oz.; and Alan Stratton, Purchasing, and his wife, whose first child, 7 lb. 5 oz. Nicola, was born on 23 January. Mrs. Stratton will be remembered as Greta Roberts of the Elmhurst Typing Pool. Also of Purchasing, Keith Mardell and his wife commenced a family with 8 lb. 9 oz. Hazel Ann on 22 January.

A new arrival on 23 January was 10½ lb. Stuart Richard, son of George Walker, Prototype Wiring, and his wife—a brother for Lynette, 'Pop' Walker, Machine Shop, father of the three Walker brothers, is delighted with the first Walker grandson.

Mrs. Lastenia Payne, then of Special Products, in the beautiful red brocade half-coat with a green and yellow pattern which she brought from Hong Kong. Also in the picture is P. Lambert, Foreman of the department.



H. S. Burfield, Foreman of Winding Department, and Jill Trafford who is one of the young ladies engaged in assembling the new TF144H turrets with coils previously wound in the department. Winding is one of the production departments which have recently moved to take advantage of the general M.I. expansion, and Mr. Burfield would like to thank the N.D. and P. Department and the Maintenance and Electrical staffs for the smoothness with which the move was achieved. Starting at 8 a.m. on Saturday, 21 January, all the machinery and jobs in hand were moved to the new-type benches in the new quarters by 5 p.m. the following day, so that the seventy operators could continue their work on Monday without any delay whatsoever

INDUSTRIAL SERVICE

The annual Industrial Service, organized by the Rev. P. A. Kerridge, was held again this year at the Methodist Church, Hatfield Road, St. Albans. A number of M.I. people attended, among them being David Hawthorn, Drawing Office, who read the first lesson, and William Sanders, Model Shop, who represented M.I. by offering a valve voltmeter as a token of Company products. It was interesting to see so many different items of industry in the City, including lighting fittings, coats and bibles.

People in the Picture: M.W.T.

FROM STEAM TO RADIO

Norman Dewhirst, senior draughtsman in the Baddow Research Drawing Office and one of the tallest men in the Company, retired recently.

Mr. Dewhirst's early design work was done in 'live steam', with some of the famous railway groups. When he came to Marconi's thirty years ago he joined the old Transmitter Designs Drawing Office under D. E. O'Donovan, and was in on the design of famous broadcasting transmitters located all over the world. For the last ten years he worked in the Baddow Research Drawing Office, mainly in connection with radar equipment.

In private life, Mr. Dewhirst is a well-



Tallest man in the Company? *Everyone looked up to Norman Dewhirst, senior draughtsman, who has retired after thirty years' service. Here W. F. Presland, Chief Draughtsman, Baddow Research Drawing Office, presents him on behalf of his colleagues with a walnut cabinet to hold 250 L.P. records, and two record tokens [V. Tate]*

PERSONE ALLA RIBALTA MARCONI ITALIANA



The gift of toys to employees' children at Christmas is just as regular an occasion for Marconi Italiana in Genoa as it is for M.W.T. Among those gathered together for this purpose are, left to right in the foreground: Benito Giorgini, wireman assembler; Edda Schizzano, secretary to Works Manager; Gabriele Aceti, sheet metal worker; Franco Ficarella, Customs clerk; Aldo Costa, turner; Marina Curatola,



Accounts Department: Salvatore Cappai, lorry driver; Giuseppe Toniolo, technician; and Stervio Garino, labourer [E. Brandolini]

Helping with Marconi Italiana's Christmas toy distribution are, left to right, above: Antonietta Prospero, Assembly; Graziella Soster, Personnel Department; and Edda Schizzano, secretary to the Works Manager [E. Brandolini]



Among prominent Scots in the Company whose forbears come from the Highlands is Engineer-in-Chief Niall Mac Labhartagh. This is the Gaelic form of his name which over the centuries has become Anglicized to MacLarty

known model railway designer and also an author. Another interest is music, and as a parting present his colleagues at Baddow and New Street gave him a cabinet for L.P. records and two record tokens, wishing him many happy hours with his music.

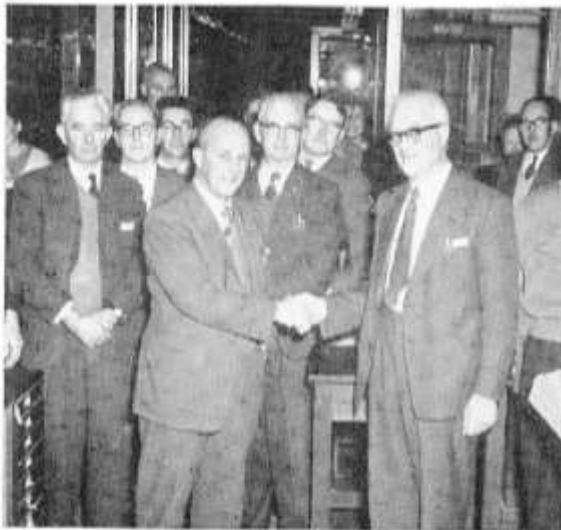
THE YOUNG IDEA

The Sales Section of Communications Division has sent us details of an interesting order received from a young man in New Zealand. This is what he writes:

'I wondered if you would please make this

thing which I have drawn. It is meant to eliminate telephones. The leather strap fits round the wrist with a small dial on top. Sticking out from the sides are two pieces of wire on which is supported a wire ring which circles the strap. This is the arial. From that runs a wire to your pocket in which there is a mike. On the strap are important telephone numbers to which you can turn the dial, then speak into the mike and the arial will transmit what you say. The little dial has a sort of top so you can hear what the other person says through that. It is meant to have a private line and a public line so other people can hear what you say. That's all. Write back after you've made it, please. Yours faithfully, John Adeane. P.S. I am eleven years old. That was on 13 August 1960.'

Alas, although D. P. Young, Assistant Chief of Sales, considers that John shows great initiative and has given much thought to his project, the reply could only be that this idea for a mobile automatic radio telephone is well before its time and research and manufacture cannot be undertaken at present. John has been sent a Marconi catalogue, with advice to contact the Amateur Radio Society in New Zealand



For many of the forty years of his service with the Company J. Saunders, right, was associated with High Power Transmitter Development. When he retired he was a mechanical designer attached to Radar Research Development Drawing Office, and was presented with a Bridges drill and accessories by H. H. Lightfoot, Supervisor, Drawing Offices



Blankets were the gift from his friends to A. E. Pinder who has retired after twenty-one years with the Company. He was a patrolman at the front gate during the war years and then became a clerk in Packing Despatch. S. R. Allerton, left, Assistant Superintendent, Packing and Transport Division, made the presentation

and to keep on trying; perhaps some day he may see his idea in general use.

TWELVE HUNDRED IN THE FAMILY

Mrs. D. E. Holder, Welfare Supervisor, has been known to many generations of Marconi children as the organizer of their fun and games, their Christmas presents and good things to eat at M.W.T.'s annual children's parties. It is sad to know that 1960 was the last time that this will be so, for Mrs. Holder has decided to retire in July.

Way back in the nineteen-twenties the party was financed by the M.A.S.C. and there were fewer than a hundred children to cater for. In those days tea was prepared, and presents wrapped and individually addressed, by the committee formed to run the party—of which, apart from Mrs. Holder herself, Miss Ena Brignall of Print Stores is the only member still with us.

As numbers grew this individual touch became impossible. The Company took over the financial angle, preparation of tea became the responsibility of the canteen staff and presents for boys and girls are now arranged by age group. With nearly twelve



Mrs. D. E. Holder, Welfare Supervisor, right, for many years the moving spirit of M.W.T.'s children's Christmas party, was photographed at the last one she will organize; she is retiring in July. On her right is Mrs. Judy Cross, her assistant for the past seven years



Hale and Farewell! At the age of sixty-eight, and after thirty-eight years with the Company, Bill Hale decided to call it a day. At his expulsion ceremony from Waterhouse Lane after four years of keeping us up to date with drawings if not with orders, Bill received good wishes from R. G. H. Cox, Production Manager, left centre, and a table lighter and a packet of his favourite mints

hundred young guests to entertain, the party itself has been divided into two parts held on different days.

One thing which has not changed is the fun the children have. Mrs. Holder showed us a charming letter of appreciation from a very small boy, illustrated with the help of the paints he received in his Christmas parcel; and we have ourselves had a letter from R. A. Chowns of C.D.O. in which he asks us to thank, on behalf of many parents besides himself, 'all those wonderful people who make the children's party not only possible but so enjoyable'.

ENTERTAINERS ALL

The Marconi Tool Room Association recently arranged another of their concert parties, visiting this time the National Spastics Society's home at Prested Park, Kelvedon; they took with them the Chelmsford male voice choir, conducted by J. Gane.

Features of the occasion were pianoforte solos by W. S. Smith of Tool Room and

items on the piano accordion by C. Willis of Hardening Shop, both uniting for request numbers. Ken Pumfrey, M.M.C., I.B.M. gave a talented display of magic while A. E. Parish, Tool Room Foreman, compered the show with his usual skill.

BADDOW BRIDE

Marie Sloper of Documentation Section, Laboratory Planning Group, was married in January to Mr. Gordon N. Evers; the wedding took place at Braintree. They are now living at Feering.



To the tune of 'My Old Man's a Dustman' the Accounts Department sang 'Our Chief's an Accountant' at their party. Left to right: Brian Taylor, Robert MacLachlan, Roger Farrow, John Daines, Don Freeman [M. Rogers]



B. K. Bonner, tool draughtsman, after spending eight years with this Company is joining the English Electric Valve Company in the same capacity. His friends gave him a silver table lighter which was presented by L. A. Liddle, Deputy Chief Tool Designer, right

MR. A. T. CHAPMAN

We are very sorry indeed to record the death on 6 February of Mr. A. T. Chapman, Winding Shop Foreman.

Joining Marconi's in 1939, Arthur Chapman worked for some years in the Mounting Shop, now Section 16, before his appointment as Foreman of the Winding Shop in 1953. He had been an active member of our editorial advisory committee ever since the magazine was started in 1950, and his advice was often of great value to us.

His private life was a full one. He was clerk to Little Waltham parish council and, in conjunction with Revd. Benson of Canfield, he wrote and published a history of Little Waltham. He was also a member of the Royal Observer Corps.

Arthur Chapman will be greatly missed by a wide circle of friends. We offer our deep sympathy to his daughter, Barbara, of Accounts Department.

BARBARA'S THANKS

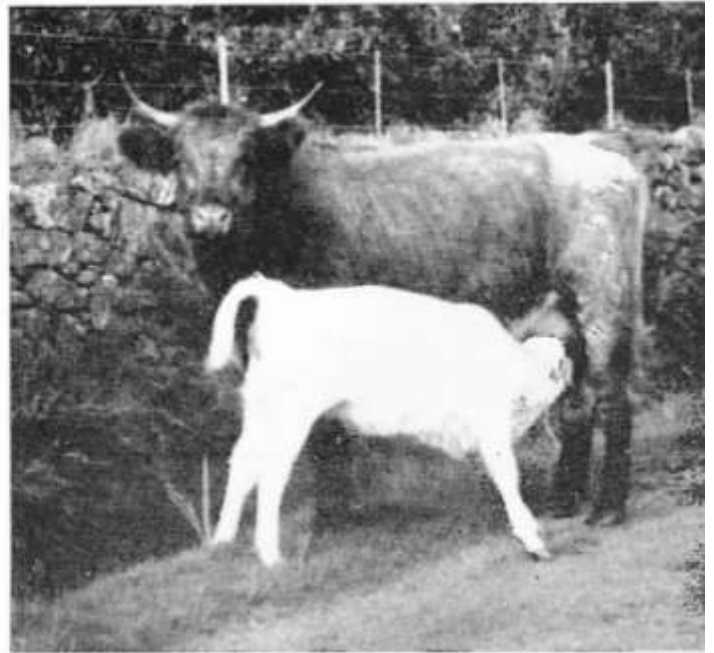
Barbara Chapman of Marine Accounts, daughter of A. T. Chapman who died in February, would like to thank Mrs. Holder, members of the Company and all friends, particularly of Winding Shop, who sent such kind messages and so many beautiful flowers.



L. J. Patrick, Planning Office, is a learner only in that he is going to learn 'em at the Technical College, which he has joined after fifteen years with this Company. His colleagues gave him a pen, presented by R. F. Bernhardt, Assistant Superintendent, R. and D. Model Shop



The Plating and Polishing Shop held their annual dinner and dance at Cannon's restaurant on 14 January and were pleased to number Mr. and Mrs. Redhead and Mr. and Mrs. Raven among their guests. Pictured above are, left to right, Eva Perkins, chargehand; J. Smith, Foreman, Section 3A; Mrs. Mary Chevell, wiring section of Plating; Mrs. J. Smith; G. R. Raven, Superintendent, M Group; Mrs. Mary Clarke, guest; Mrs. E. Rosewell; Ernie Rosewell, chargehand; and Mrs. Irene Foster, wiring section of Plating



How many people have seen a pure white calf? Dick and Ailsa Walker, of Felling Works, photographed this one in the Highlands, not far from Fort William. The cow appears to be Shorthorn with some West Highland blood



When A. Eve, Estimating Division, retired after forty-three years with M.W.T., a dinner was given in his honour at the 'Golden Fleece', where H. Ashworth, Chief of Estimating, gave him a chiming clock on behalf of his colleagues; Mrs. Eve received a bouquet of flowers. Mr. Eve joined Estimating Division in 1945 after pre-war service which included installation work in Roumania, Czechoslovakia and at B.B.C. stations in this country [D. R. Sanders]

PEOPLE AT BASILDON

THEY WORK BY NIGHT (4)

At seventy-eight Charlie Keyes is as nimble and spry as many men fifteen years his junior. He came to Marconi's six years ago as a cleaner, and works by night for the good reason that there is more room to wield a broom then than there is during the day.

Charlie left school when he was eleven years old and at the age of thirteen, having just lost both parents, he went to work, first in a nursery garden and then on a poultry farm where he stayed for six years.

At the age of twenty he joined the army in the expectation of going to South Africa, but life is full of surprises and he was posted to India. In those days there was no R.A.M.C. and Charlie was among the men who were sent from each regiment for medical training. He was awarded certificates for medical and surgical nursing and

came second out of sixty examinees. He was then withdrawn from the regiment and posted permanently to the hospital where, for three years, he worked in the operating theatre. The work appealed to him and, could he have afforded it, he would undoubtedly have studied to become a doctor.

Charlie left India in 1914 and came back to this side of the world to take part in the war, during which he was badly gassed. After the war, having only four years to do in order to complete twenty-one years service, he returned to India and worked out his time in the hospital.

On returning to civilian life Charlie first bought a poultry farm in Norfolk and then went into the G.P.O. sorting office in Mount Pleasant, where he remained for eighteen years.

You might think that by this time Charlie would have had ideas about retiring, but this never entered his head and he took up private gardening at Leigh, Westcliff and Southend. One day he was asked by the Basildon Corporation to help them out, as one of their gardeners was ill, and it was at this point that he was introduced to Marconi's where he was sent to landscape the garden and stayed to join the Marconi team.

We feel we should mention that Charlie almost qualifies as a professional pensioner. He receives an army pension, a disability pension, which he fought in the House of Lords to retain, and a Post Office pension. Small wonder that there is a place for him in the Chelsea Pensioners' Hospital any time he likes to take it, but Charlie has his own bungalow and family at Vange and has no intention of leaving them.

JOBS FOR EVERYONE

If you belong to Toc H you'll never be without a job. Doing jobs for those who, for various reasons, need help, is the practical translation of the underlying Christian principle which guides the organization.

Who knows a shaggy dog story? R. L. Wall, a member of the camera club, was never introduced to this spaniel, but fell for the perfect pose



Nobby Clark of Cost Accounts joined Toc H ten years ago, and during his six years with Marconi's has been a member of the Rayleigh branch which comes into the South-East Essex District, of which he is secretary.

At their weekly meetings, branches discuss the progress of jobs over a cup of tea and cakes. The business session is followed by the Ceremony of Light during which the Lamp of Maintenance is lit in a darkened room and members call to mind, and pledge to maintain as examples, others who died in the war and those who, throughout the years, have shown a spirit of unselfishness and sacrifice towards their fellows. After the ceremony outside speakers are brought in to talk upon any subject of interest.

The jobs under discussion are diverse. Nobby's branch for instance owns an 8 mm. film projector, which members take to the houses of those who are bedridden. For a week every month, evenings are enlivened for them by an hour's travelogue or perhaps the clowning of Charlie Chaplin or Harold Lloyd.

Over at Eastwood Lodge, the old folk have reason to be thankful to the Rayleigh branch, for 200 yards of newly-laid footpath now lead up to their home. Local builders were persuaded to contribute the materials and the muscle of the Toc H members did the rest.

Seventy-eight-year-old Charlie Keyes, right, is a pensioner many times over and since going to press we learn that he has left Basildon. We wish him the best of luck. With Charlie is his former colleague, Ted Moore



Nobby Clark of Cost Accounts is an active member of Toc H, the organization which helps to provide the answer to misfortune, need or loneliness wherever they may be found

Visiting war pensioners, starting Derby and Joan clubs, bottling fruit for local Children's Homes, performing personal services for the blind, sick and aged—these are all things which branches take into their stride, and to support the District team, which tackles jobs needing a certain amount of money, they run fairs, raffles and socials to raise the necessary funds.

If you are a football or film fan who is passing a spell in hospital you'll bless the South-East Essex District. They hire land lines from the G.P.O. and relay blow-by-blow reports of the Southend United home games, and any special away or important F.A. Cup matches. The commentaries are picked up through the loudspeakers or bedside phones in the wards. About nineteen film shows a fortnight are given on the District's 16 mm. projector—not vintage flies, but up-to-date talkies.

Hospital patients are not the only ones to benefit from the ingenuity of the Toc H. Nobby's District team have a motor-coach which they bought and de-gutted so that invalids in wheelchairs, either their own or borrowed from Toc H, can be accommodated inside and taken on summer outings or to shows in the winter. Some of the folk who enjoy these trips had not been outside their houses for eight or nine years.

Space does not allow us to tell the complete story of the work done by this splendid non-denominational organization which was founded during the first world war by the Reverend Tubby Clayton, but if you're interested, you can be sure that Toc H will find you a job!

Sport: M.W.T.

ANGLING

The annual general meeting will take place on 7 April at 7.30 p.m. in the Marconi Club. Last year only eighty members attended. Please make every effort to come along this time and let's make it over a hundred.

We are coming to the close of another season, which has not been a good one from the point of view of the weather. Nevertheless many of you have enjoyed the excellent facilities we have offered. In view of rising costs the committee may have to consider asking you for a little extra, particularly as we may be having a boat in the near future, and also there will be some new trophies for next season. The secretary may not have expanded the area of fishing, but he has a few surprises up his sleeve for the A.G.M.

It will soon be time for subscription-collecting and with over 700 to look after we would appreciate offers from helpers. Volunteers please contact the secretary at New Street, int. ext. 343.

ARCHERY

Marconi archers, their wives, friends and guests met together at the annual dinner on 21 January. Twenty-two of us wined and dined most excellently at the White Hart Hotel in Witham, and afterwards took part in an assortment of games, ably directed by Mrs. Wheeler and Derek Siseman. It's a jolly good thing that many of our members have wives to sew on buttons; one's mind boggles at the thought of what might otherwise happen.

Our thanks are due to all those who worked so hard to make this such an enjoyable evening.

BADMINTON

League matches

This season our league teams are not being so successful as usual and, with the exception

of the men's first team, they are occupying lowly places in all Divisions. However, the matches are very enjoyable, and we can but hope that the games are better than the scores suggest.

The individual tournaments are in the quarter-final stage and players in these have met with greater success. Peter Ager and George Fardell are still in all three events, and Eric Turner, Basil Francis, Pearl D'Aeth, Freda Iles and Joyce Wood are unbeaten in the events for which they entered. The real testing time is upon us, and it remains to be seen how many will survive the semi-finals and finals.

Club tournaments

Club tournaments which started in February consist of the following classes: men's singles; ladies' singles; men's doubles; ladies' doubles; mixed doubles (open) and mixed doubles (draw for partners).

DRAMATIC CLUB

Our spring production, *Bell, Book and Candle*, will take place in the Club hall on 23, 24 and 25 March. It's a bewitching play which you shouldn't miss the opportunity of seeing. Tickets, price 2s. 6d. and 3s. 6d., are obtainable now from Mrs. Kathleen Everitt, room 133, Marconi House. Tel.: G.P.O. ext. 405; int. ext. 265.

DARTS

Although at the time of writing publication date is some way off, we have no fear in forecasting the league champions. With Machine Shop consistently winning 2-1 throughout the season, our old friend Captain 'Jiggy' can look forward to retaining the league cup. Indeed, we shall be severely shocked if we have not correctly anticipated the final result.

E.E.V., Stores and Section 16 are running very close for second and third place, with Section 16 odds-on favourite.

Wireless Accounts with three games in hand still stick to the bottom position, but with a bit of luck they could just about change places with their colleagues, Marine Accounts, before the end of the season.



Andrea Jackson, right wing, carries the attack into Wickford's half of the field

By now all sections should have completed the eliminating individual championship matches in readiness for the finals. After these and the knock-out competitions have been played off, final arrangements will be made for the concert and prize presentations, which have been provisionally fixed for Friday, 5 May.

The league table to 25 January is as follows:

Machine Shop	played 11	points 23
E.E.V.	.. 12	.. 23
Stores	.. 12	.. 21
Section 16	.. 12	.. 21
Section 17	.. 10	.. 18
Maintenance	.. 10	.. 16
Building 720	.. 11	.. 16
Marine Accounts	.. 10	.. 11
Baddow	.. 11	.. 8
Wireless Accounts	.. 9	.. 5

The season's highest scorer is still J. Borley of Stores with 152.

HOCKEY

Men's

The first XI has played four games since the New Year, two of which were won and two lost. The best performance to date was the away game against Stanford-le-Hope whom we defeated, thus completing the double against them. Our two games against this

team are the only ones which they have lost in eighteen months. Our other victory was over Southend High School I, whom we played away.

After being with the Marconi Club for several years Geoffrey Harvey has left us to play for Chelmsford. The section is sorry to lose him but we wish him well, for he possesses all the attributes of a class player and should make the grade.

The second XI is still in the doldrums and has lost three out of four games this year with one drawn against Romford III. We badly need one or two forwards who can shoot.

Ladies'

The ladies' hockey section has been having great difficulty in keeping regular players; replacements have been hard to find, and this has resulted in rather unsettled teams.

We lost the first two games in the New Year against S.E.E. Technical College and Old Romfordians, the scores being 2-5 and 1-7 respectively.

However, the matches against Parkside and Wickford were won, 2-1 and 5-0. Parkside proved to be fairly strong opponents and there was a lot of mid-field play, but the forwards were quick to make the most of their opportunities.

The match against Wickford was a much easier game. On the few occasions when Wickford looked dangerous, our defence



confidently broke up the attack, quickly clearing the ball upfield.

The main goal scorers have been Barbara Lintzy, Sheila Hempstead and Andrea Jackson. Susan Eales has proved herself to be a competent goal-keeper, and we hope that she will be able to play regularly. Judy Torrance and Pat Tate, two new members this season, show great enthusiasm and promise. We are very pleased to welcome Beryl Agar back again, and hope that we shall have a more settled team for the tournaments.

GALA DAY DOGS

At the last Gala the show was enlarged to enable art enthusiasts to exhibit their prowess on paper, canvas and with plaster; home-made wine experts presented a delightful array and these additions to the show tents added lustre to the scene.

This year the family will be further catered for by the introduction of a dog show. It matters not whether your dog has a pedigree or is a much-loved crossbreed, a puppy or a veteran; all are welcome.

The show will be in three main sections: exemption show, by kind permission of the Kennel Club, for pedigree classes; obedience tests; novelty classes. Any dog may be entered in the last two sections.

The Gala committee is organizing the dog

The men's second XI which turned out to play against Chelmsford Grammar School first XI are, left to right, back row: Len Acton, Michael Adams, Gordon Pewter, Ray Cox, Roger Nightingale, Harry Berry, Brian Ward and John Mobbs. Front row: John Harcourt, Jeffrey Kliskey and John Green, guest player

show in collaboration with the Chelmsford and District Dog Training Society. In order that arrangements can be made to secure sufficient judges, the closing date for entries will be 16 June. Schedules and entry forms are obtainable from F. Cole, Room 108, Marconi House (G.P.O. ext. 624; int. ext. 822).

HORTICULTURE

All gladioli should be collected by tonight, 10 March. Please see that this is done as storage space is limited. Although the gladioli bulbs were cheaper this year, the response to our offer was poor. Most orders came from the offices and we missed the support of the workshops. The materials we supply are the best possible value, so watch the notice boards for further offers.

Gala Day preparations are well in hand and the camera club is looking forward to receiving your competition photographs. Please come forward with your entries and give not only the camera club something to work on and worry about, but also the first-

class judges something to think and talk about. There is good equipment available for borrowing and the camera club will be glad to give you all the help it can. Don't forget to read the rules; if exhibitors do this it will help when the time comes to check the 1000 entries which we are expecting to receive.

INTER-DEPARTMENTAL FOOTBALL

After playing two games without scoring, Baddow Workshops were on top of the world in their third game. With only twenty minutes left to play they were leading by two goals to nil against Rivenhall. However, Rivenhall struck back swiftly, equalized, and went on to win the game with a long shot from David White which deceived the Baddow goalkeeper and landed high in the far corner of the net just before the final whistle.

In what was a most enjoyable match, Howard Egglestone, captain of Purchasing, contributed three goals to his team's 8-3 win over Communications.

Progress was unlucky to lose 2-3 to a Waterhouse Lane team, playing below its usual form but managing to scramble in two goals and converting a penalty for an unnecessary handling offence on the edge of the penalty area. Outstanding in the Progress team were Dai Reed, always inspiring the forward line, and Arthur Hughes, always in the right place to break up the Lane attacks and start up a Progress move with some neat football.

PHOTOGRAPHY

There was a splendid attendance at the annual general meeting held on 12 January. The retiring chairman, A. A. Miller, Broadcasting Division, was unanimously voted to be the first president of the club and has kindly offered to give a president's cup to be competed for annually.

Other officials elected were: chairman, R. Hinds, Associated Companies Division; secretary, E. W. Balmer, Test Division; treasurer, R. Beattie, Baddow; committee, D. Norman, Progress, D. Whipps, Inspection Building 720 and T. Revill, Section 15.

A year of increased activity in taking portraits and photographs generally, followed by practical experience in developing

and enlarging, is envisaged. Outings to places of photographic interest are being arranged and include a visit to Ilford Limited on 29 March and Kew Gardens in April.

We have only one lady among our members; surely she is not the only one interested in photography! We need new members and some models for our portrait sessions, so please contact any of the committee if you feel like joining us.

SAILING

The well-attended winter programme of illustrated lectures and film shows is in full swing. A variety of subjects has been covered, from the geology of the River Blackwater to the training of the younger generation in the art of sailing and seamanship; from the sailing of those craft we all so admire, the sailing barges, to the work of the Royal National Lifeboat Institution.

Work on the clubhouse *Mangu* has gone ahead, and various craft are receiving attention in preparation for the new season's programme, which promises to be a very full one. Our club is host this year to the entrants of the Blackwater and Colne dinghy championships.

Membership is rising steadily and a number of new craft will be appearing partly as the result of a joint building programme this winter; no doubt there will be many contestants for the 'pots' we offer to those who can coax just that little extra from their craft and crew.



Sport: M.I.

CHILDREN'S OUTING

Three coach-loads of children between the ages of nine and twelve attended a performance of *Snow White and the Seven Dwarfs* at the Wembley Ice Pool on 28 January. The 110 children had the time of their lives and the younger ones especially thought the dwarfs were wonderful. Fourteen adults travelled with them and the organization of the outing, by members of the Social and Sports Club committee, proved most efficient. It was a pity the rain was so heavy after the show, but that made the tea and biscuits, waiting in the canteen, all the more welcome.

FOOTBALL

Extraordinary how the news went round the Works when it was announced that Tim Holloway and Colin Morris had been picked to play for Hertfordshire in the game against Berks. and Beds. at Barnet. It was unfortunate that the ground was flooded on that day and the game cancelled, as this would have been the seventh county honour for centre-forward Tim, which would mean the award of a full county cap; and the first honour for right-half Colin, who was picked as first reserve.

The First Eleven is doing very well, in that of the eighteen games played, sixteen have been won, one drawn and one lost. The team is seven clear points ahead of its rivals—Spurs supporters take note.

A number of M.I. people wanted to play friendly football, rather than the class game the First Eleven and Reserves play, so they have formed themselves into an eleven which they have called the Marconi 'A' team. They played their first game on 28 January, when they were away to Kimpton and won 8-4.

MODERN DANCING

On 28 January the canteen was the rendezvous of many of the best dancers in the county, when a heat of the Hertfordshire dancing final was held. In addition to this the capacity crowd saw an open three dance



Potent stuff, this home-made wine—especially on Friday, 13 January, when the M.I. wine guild held its highly enjoyable party in the canteen

THE WINE GUILD

If good wine, good food and good company are well mixed the result cannot fail to be a good party. And so it was on Friday, 13 January, when members of the M.I. wine guild and their guests met in the canteen.

Passing under the swinging sign of the Stagge-r-Inn we were confronted by a colourful display of bottles and plates of savoury snacks surrounding an attractive centre piece. 'Roy' Roycroft, the chairman, stood prepared with corkscrew and so the evening commenced with gooseberry champagne and wines made from lemons, raisins, blackcurrants, pears, cherries, rhubarb, apples and a number of blends—something to suit everyone's taste.

In these days of factory-made drinks, it is refreshing to find people prepared to spare the time to make a wholesome wine which has a flavour as attractive as its clear colour. It is refreshing also to find people prepared to share their product.

Such an evening as this passes only too quickly and D. C. Phillips, the secretary, with the other organizers, is to be congratulated.



Out for fun at the outing when three coach-loads of children aged between nine and twelve went to see Snow White and the Seven Dwarfs at the Wembley Ice Pool on 28 January

competition and a demonstration by the international and TV dancers Sonny Harris and Pearl Rudd.

The music for this occasion was provided by Stan Bramwell and his band while Bert Franks, in his capacity as M.C., kept things lively. Many members of the section helped to make this peak event of the year the undoubted success it was.



MOUNTAINEERING

While Peter Henry has been in Patagonia, the club has had difficulty in arranging for accommodation for its climbing weekends on Snowdon and has therefore had to discover another venue. Members have been fortunate in finding this at Harrison's Rock, Tunbridge Wells. This cliff, fifty feet high and of sandstone, belongs to the Central Council of Physical Recreation and provides some strenuous climbing practice.

The method of climbing this particular cliff is for a rope to be taken round an object at the top and held at the foot in order to provide a safety factor. Members of the club who visited the cliff on 29 January were pleased to meet four climbers from Marconi's, Chelmsford. About twelve members, of varying experience, including four ladies, spend a day at the cliffs once a fortnight; and Gordon Gould, Calibration, who is acting secretary, would like to hear from anyone else who wishes to gain climbing experience.

'And a happy New Year to us all.' The Social and Sports Club's New Year's Eve dance was a great success and the Skyliners dance orchestra contributed to this in no small measure. Bert Franks was M.C. and Mrs. Jane Laws gave the traditional greeting in her lilting Scottish accent

TABLE TENNIS

The activities of the club during the first part of the season have been quite successful. Our first team, newly promoted to the first division of the St. Albans League, is well placed in the top half of the division. The second team has achieved a hundred per cent record so far and the third team, promoted to the third division, is just holding its own in ninth position. Two of the teams remain in the Adams Cup competition to defend the title gained by the first team last season.

On 21 December an invitation match against English Electric, Stevenage, was played, M.I. winning 11 games to 4. W. A. G. Brian, secretary/accountant, and Mrs. Brian were present, and a reception was held after the match to complete a very enjoyable evening.

On 21 and 22 January the M.I. annual invitation tournament was held in the canteen with most of the leading players in Hertfordshire taking part. F. G. Cook, Commercial Manager, and his wife attended, the presentations being made by Mrs. Cook. M.I.'s Chris Easty was among those to win an award, receiving a spoon as the best player in the tournament apart from those to reach the finals.

T. Densham, an England player, won the men's singles; the general doubles, which attracted twenty entries, were won by B. Barr and T. Densham, who were presented with the Commercial Manager's shield; while the ladies' singles were easily won by

Judy Williams, the club's junior international.

HOCKEY

The mixed hockey team is having mixed luck at present. Both games with English Electric (Luton) were lost, S.E.R.L. Baldock won 2-1, but M.I. won 5-1 against Tring mixed hockey. In spite of this the team thoroughly enjoys its games and when there is not a match fixed for a Sunday, members turn up at the sports ground for practice.

The team generally consists of four girls and seven men. This is very convenient as the girls are quicker at washing and are, therefore, able to get the tea ready by the time the men are cleaned up.

The men's team has played nine games, won seven, lost two, and twenty-eight goals have been scored for M.I. with twelve against. The most recent game was against strong G. W. Kings (Stevenage), who won 2-1, which meant that M.I. had lost their unbroken home record. On this occasion H. J. Jewell, the president of the Hertfordshire Hockey Association, paid us a visit and acted as one of the umpires.

The leading scorers are: L. Windmill, 10; A. Adolph, A. Strange, 4 each; D. Lane, 3; S. Dockree and A. Webb, 2 each.

Half-time in the men's hockey match against G. W. Kings (Stevenage) who eventually won 2-1. The trilby-hatted gentlemen are, left to right: C. W. Lane, chairman of the section and umpire, H. J. Jewell, president of the Hertfordshire Hockey Association, and H. C. Gribben, then chairman of the Social and Sports Club





A temple in Penang is devoted to the god of snakes whose birthday falls in February, on the sixth day of the first moon of the old Chinese calendar. On that day, it is said, the 160 holy snakes resident in the temple are joined by others from far and wide, which disappear again after the celebrations. This picture of the month was taken by B. Harvey, Special Receiver Section, Baddow Research

ART SHOW

THE MARCONI MAGAZINE is arranging an art exhibition on Gala Day. Marconi people from the Companies, including M.I.M.C. and the English Electric Valve Company, are invited to take part.

Pictures modern or traditional, in oils, water colour or other medium; sculpture, etchings, woodcuts—wherever your talent lies, we want to show your work on 8 July.

For further details, ring us at New Street on 511 internal or 394 external.





A chic Easter bonnet. Maybe one shouldn't count one's chickens before they're hatched, but when they are as lively as these Easter chicks it's difficult to count them afterwards, as Bob Wall's thirteen-year-old daughter, Linda, would readily confirm! (R. L. Wall)