

Tek Times

WATCH THIS SPACE



Since Tektronix UK was formed in 1963, the Marketing Organisation has gone through years of growth from an initial group of 30 people in Station Approach, Harpenden to over 300 spread from Maidenhead to Livingston and Dublin. In all this time we have made do with offices which have enabled us to achieve success but with the accompaniment of many frustrations. Our new Marketing Headquarters in Marlow will give us the first opportunity we have had to design a building to meet our specific needs.

It is our intention to relocate the whole of our Southgate and Maidenhead operations there, and also the Management and Central Support functions from Harpenden. The latter office will remain as Eastern Area Sales and Service Centre.

Progress is being made on the design and specification of the building. This sort of thing always seems slower than one would like. Imagine having to try to think of every detail before a start is made – what kind of doorknobs? Where shall we put the telephones? How many plug points do we need?

As you can see, the site is more or less level now. It was a gravel pit last year. Guess what they used to fill it up? – Gravel!! Building work is due to start during July and we hope the whole thing will be complete by September 1984. There will be 38,000 sq. ft. of office and demonstration rooms, 12,000 sq. ft. for the Service Centre and 20,000 sq. ft. of Warehouse. As soon as pictures and drawings are available we will bring these to Southgate, Maidenhead and Harpenden for everyone to see.

● Site of Tek UK's new Marketing Headquarters at Marlow, Bucks.

Cover Girl

No excuses for a summer shot of Sue Shoemith in our Manchester office, who currently works as secretary for the Northern District of the Design Automation Division.



'QUOTE'

A budget is a method of worrying before you spend instead of afterwards.

A well-adjusted person is one who makes the same mistake twice without getting nervous.

AREA REPRESENTATION CONFERENCE

The next A.R.C. will be on Thursday 14th July at Hoddesdon, followed by the August meeting at Manchester on 11th August and then on 8th September at Harpenden.

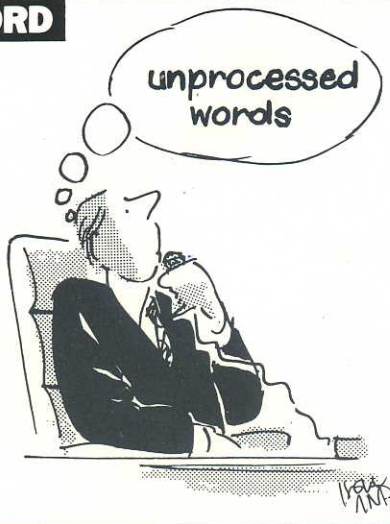
WIM VELSINK'S VISIT TO HODDESDON PLANT



The ECB area at the Hoddesdon plant, visited by Wim Velsink on 9th February; seen in the picture left to right are Jerry Loe, Manufacturing Group Manager; Guan Tan, General Manager; Wim Velsink, Vice President

Instrument Division and Technology Group; Eddie Curran, Manufacturing Support Group Manager.

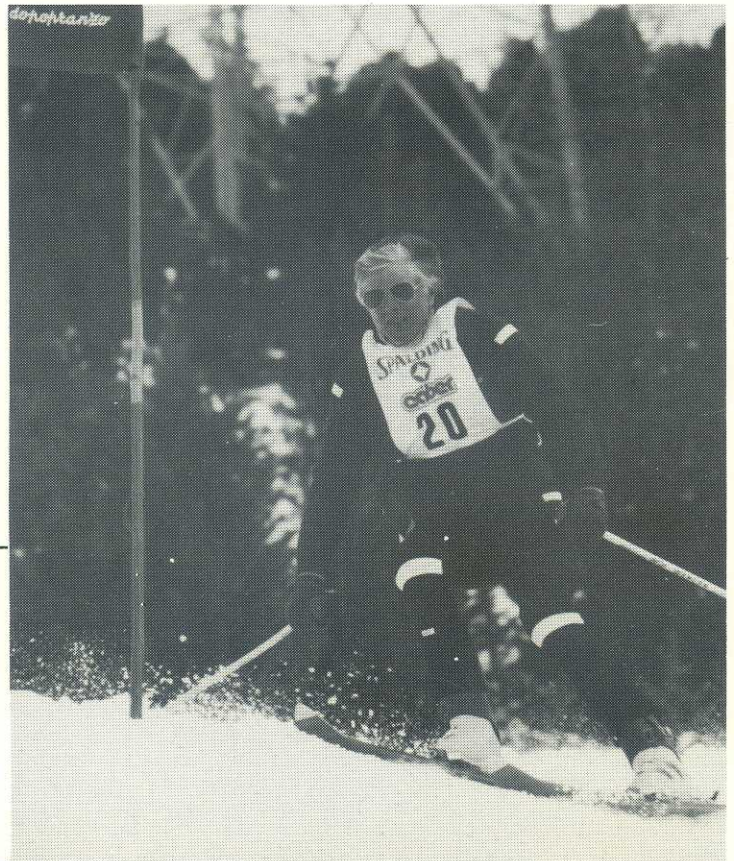
LAST WORD



Have salesman —will travel

● A typical IDD winter travel picture of sheer dedication, commitment and poetry in motion, when a customer in the North says "I have some money".

Looking a little apprehensive in case we get there too late (or cannot stop!).



As an early St. Patrick's Day gesture of goodwill, British Telecom introduced direct dialling from London to all automatic exchanges in the Irish Republic.

The system was explained in a newspaper advertisement headed "Direct Dialling to the Irish Republic".

The instructions are clear as a bell:

To call a Dublin number, for which the Area Code is (01), you should continue to dial 0001 in place of the figures in brackets, followed by the remainder of the number, e.g. To

Nought but trouble to dial Dublin

call (01) 75 9197 dial 0001 75 9197.

For other parts of the Irish Republic the code has been changed to 010 353. You will need to dial this new code followed by the area code but *excluding* the initial digit 0, followed by the called customers (sic) number, e.g. To call

(021) 4 0123 dial 010 353 21 4 0123.

All calls will be charged at the Irish Republic rate. If you have any difficulties please contact the Operator by dialling 100.

Several readers who tried to fathom the meaning of all this suggested the advertisement as an

early entry for the "Gobbledegook of the year" competition. Fears of a tidal wave of wrong numbers gripped Fleet Street (which is on London's 01-353 exchange).

In the face of this concern, a reporter decided to ask British Telecom about the advertisement. He dialled the Press Office number, taking great care to omit the 01 area code.

His call was intercepted by the operator: "I'm sorry sir, there's a fault on the line".

Daily Telegraph

'Tour-de-Tek' presentation



Just before Christmas, several representatives of Geddings Adult Training Centre were invited to the Tek site at Hoddesdon where Guan Tan, Manufacturing Manager, presented Cliff Read, Manager of Geddings, with a video camera purchased with funds raised by riders in this years "Tour de Tek".

● Our picture shows Guan Tan presenting the video camera to Cliff Read, Geddings Manager. Riders present, left to right: Andy Woodcock, Brigit Collins, Stan Ripsher, Teresa Cooper, Ken Burton, Paul Gatens, David Braik, Jerry Loe. Also present on right hand side of photo four of Geddings trainees.

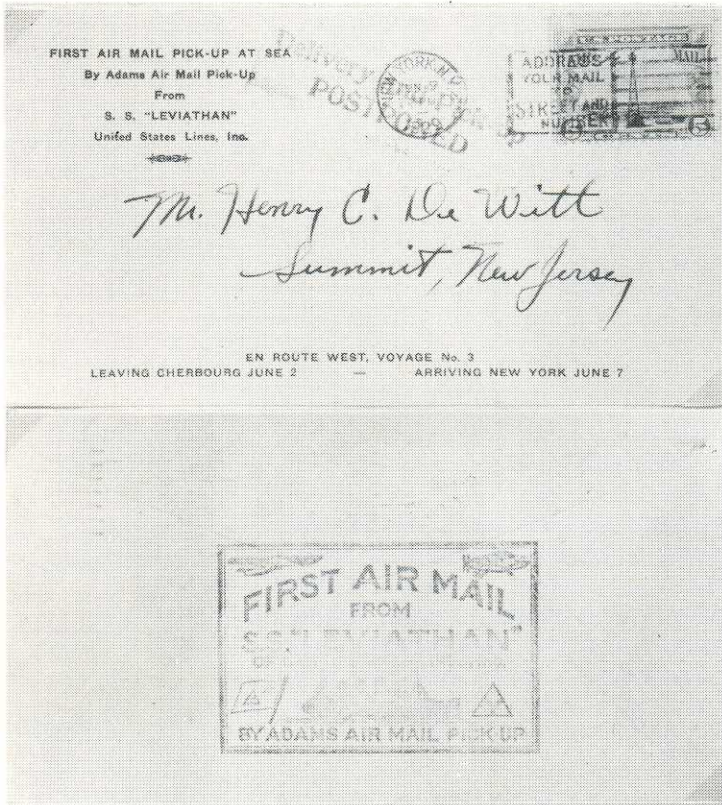
THIS YEAR'S TOUR

This years Tour-de-Tek will be held on Friday 9th September.

This may be your last opportunity to ride the full 103 mile course.

Entries or further details to Ken Livermore at Maidenhead ext. 297. BARBECUE:- The traditional barbeque will be held at Hoddesdon in the evening.

Ken Livermore - Maidenhead.



ON THE LIGHTER SIDE

I have been introduced, or rather it would be more correct to say I have been re-introduced.

You see it came about like this. Quite recently I lost my Guv'n'r. No, he didn't die. Nor did I lose him in the river or anything like that, he just moved sideways. You know how Tek have a habit of doing this on the slightest provocation. Well, I lost him.

However he has surfaced again, doing mysterious things in part of our far flung empire, a little east of south from the main building. (How long he's been there is not at all certain, but by the amount of Mars Bars and Kit Kat wrappers, some time I would guess).

Now this is where the introducing bit started. I was wafted into chocolate coated wrapper department and introduced to our latest baby, or one of them at least. It looks just about like any of the others except it has a bit more than most in the right places, that is to say 'knobs'. Now don't get me wrong, these knobs are colourful, but to operate most of them you need a mod, to human nature. I understand all our prospective customers are going to be issued a spare set of scaled down hands.

Taking a look inside looks about the same as any of our bread and butter boxes, with the exception that the rows of little electronic

"Phew Poppets" are but tighter packed and it looks as if our artificial inseminator—wait a minute! there's some one trying to catch my eye—oh, oh! I am sorry, take it back, the artificail inseminator bit, it appears the thing is called automatic insertion, well it's about the same anyway. It appears it will have to get used to a closer fit if all those bits are going to fit.

I was then told that to adapt it to play TV games a further mod will be made in the shape of crib boards or whatever they are called, the things with all the little Electronic Phew Poppets inserted into them. This in turn will show numbers illuminated on the front of the ogle box in between this forest of knobs, which will forecast such things as the price of bacon, the next gas and electricity bills etc., very handy so I am told in this computer age.

The whole thing is very eye catching. I should know, I caught my eye on it—nasty bruise. So yet again we have another best seller, I hope!

In order to make sure this is a best seller I am given to understand that our newly appointed Sales Reps have been given a crash course in salesmanship. (Don't you believe it. I have it on good authority they were sent on an assault course with special training on wrecking competitors chances).

The first attempt to operate a ship to shore airmail service was unfortunately not successful as evidenced from this cover that carries a purple mark, "Delivery and Pick-up postponed". Undeterred, an enthusiastic postal clerk marked the reverse of the cover "First Air Mail ..." to please the well known American collector Henry C. de Witt,

Collector's Corner

probably making this cover a unique item.

Let's hear from other philatelic enthusiasts — Editor.

No! — I haven't got time to see any crazy salesman . . .



. . . I've got a war to win

Because it's still there

Those of you with good enough memories may recall an item in Tek Times entitled "Because it's there" which amounted to a discourse on the reasons people climb.

Although this was written only 3 years ago things (and climbing and Tek) have certainly changed. After a lay off for some ten years due to family reasons, slipped discs and other factors, we enthusiastically recommenced the sport last year to discover that the scene had significantly altered.

There were two obvious pointers to this change, (a) the state of footpaths to the crags – once small ill defined tracks – now in real danger of serious erosion, (b) the abundance of shops selling climbing equipment.

It has been estimated that today there are over 350,000 active climbers compared with I would guess 30,000 when we started 25 years ago. Indeed a visit to any popular crag confirms this fact when one has to form a queue to climb a recognised route.

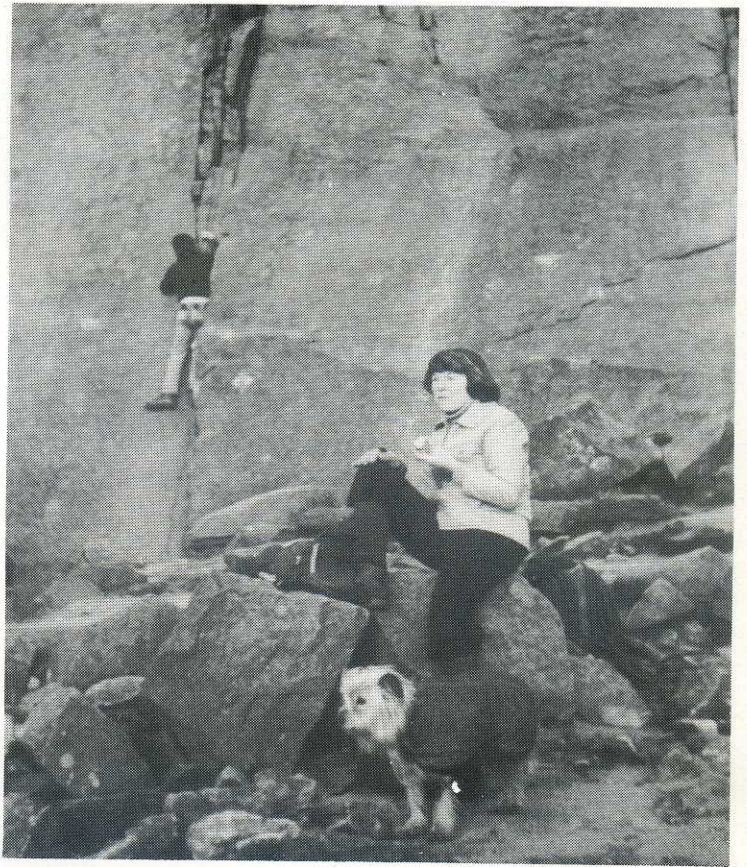
Having said this and being aware of the distaste that this may arouse let it be realised that the number of

climbing accidents has in fact decreased. We are all familiar with stories in the newspapers headlined "Climber falls 3,500 ft. on Snowdon" which typically refers to a walker inadequately equipped who stumbled on a track in bad weather conditions.

It really is quite remarkable how few genuine climbing accidents there are today particularly as the standard of climbing has increased many times over the last decade and youngsters of 16 or 17 years are competently tackling climbs, considered unjustifiable only 20 years ago.

The reason is the advance in technique and equipment. Now instead of the leader climbing maybe 50/60 ft. unprotected it is unusual for one to advance more than 6 ft. on a hard climb without very adequate protection. Also the training factor is significant and through the year one can enhance skills on indoor climbing walls at the many recreation centres dotted about the country.

Has all this taken a lot of the fun out of it? Sadly I think this must be true to some extent, when one sees



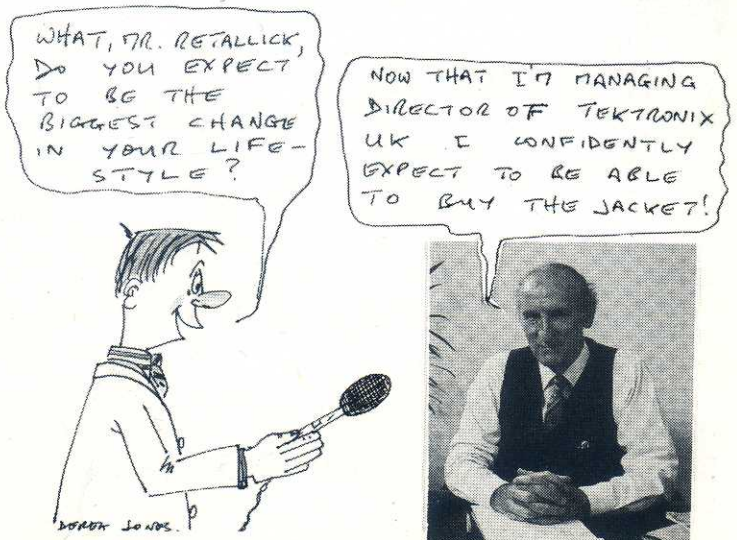
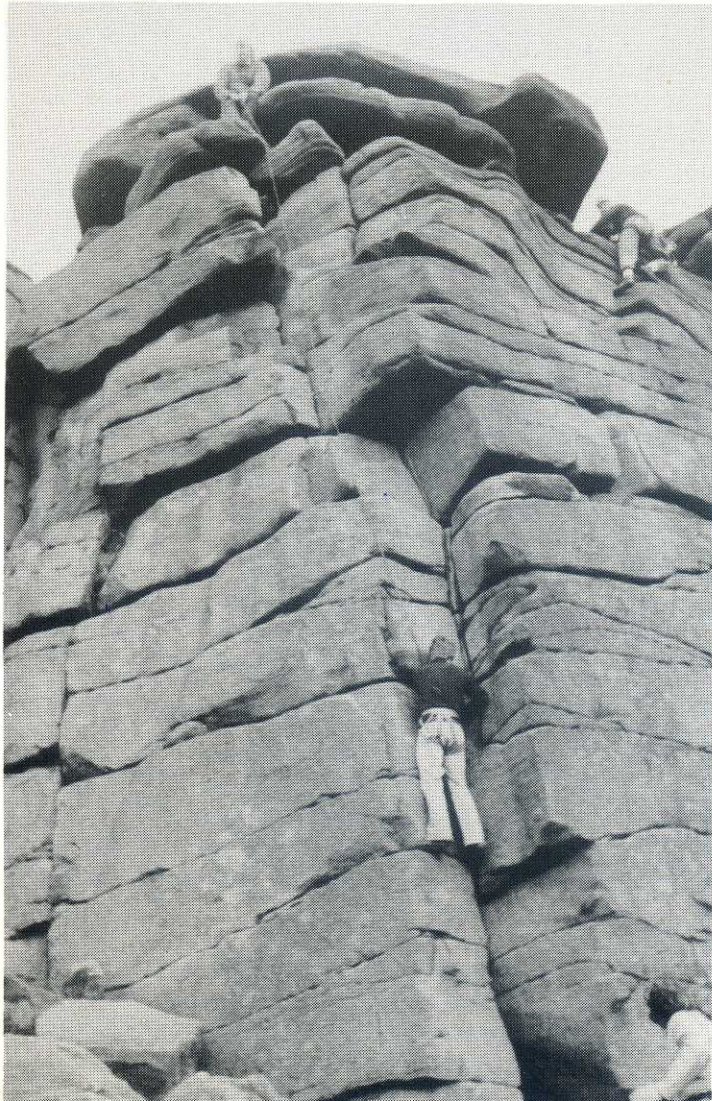
the very serious and intense attitude of a lot of today's "hard men". The point of getting out into the fresh air and enjoying the exercise and scenery seems missing. I was saddened to be climbing on Tryfan in North Wales this summer and seeing 4 young lads finish a route adjacent to ours – although both climbs finished withing 2/300 ft. of the summit – not bothering to scramble to the top, somehow they become rock gymnasts not mountaineers.

However, at least they were actively engaged in something more worthwhile than vandalising public

gardens or mugging old ladies.

I still think my reasons for climbing stated 3 years ago hold good – there is still scope for adventure even in this country and the opportunity of standing where no one has stood before – anyway it's a challenge whatever one's capabilities and you can always watch Crossroads any day. But you don't often see the sun set over the Scottish islands or even a snow covered Kinder Scout on a January evening, and I defy any of you to better that!

Paul Smith – Manchester.





End of the line

● End of a line, during period 311 the last Telequipment product was produced. Following many successful instruments the D1000 also made its mark and during its production life 31,585 were manufactured. Seen in the picture left to right, Luke Udunuwara, Audley Maynard and Ray Eaton.

Letters

Scope still going strong

We were delighted to receive this letter from an enthusiastic customer using a Tek Oscilloscope – a little old, but still going strong. (Not the customer, the oscilloscope).

Dear Sir,

I feel I must write regarding my recent purchase of one of your products.

While at a local scrap yard I came across a model Type 647A oscilloscope main frame, this unit is very battered and was soaking wet. Thinking it might be useful for spares I purchased it for a few pounds.

Having let it dry out, I was about to start dismantling when on examination, although showing signs of rust and corrosion, the transistors being green through the damp, on the whole it didn't look too bad. A quick check for shorts at the mains lead, all OK, so I plugged it in and to my utter amazement it worked, the tube lit up and even the calibrator worked. I now feel that a complete refurbishment might be possible, with your assistance.

Is it possible to obtain a maintenance manual or handbook for this model? Are the plug in timebase and Y amplifier modules still available? What would they cost?

Would it be possible to trace the instruments history? It is marked MOD165K S/No. BQ10100.

You might be interested in having the unit as an example of the ruggedness of your products, if so you would be welcome to it.

I work in radio communications and have come across many instances of so called water tight units failing for even a small amount of condensation within them.

I will gladly meet any cost involved and would appreciate your comments.

Yours faithfully,
G.A. Harper

Recently retired John Dedman, formerly UK Service Manager, replies:—

identifies it as one of many delivered to the armed forces many years ago and was specifically ruggedised to suit expected harsh environmental usage.

Unfortunately, it is not possible to determine whether it was the Navy, Army or R.A.F. that acquired that particular serial number.

As this model was taken out of production early 70's, plug-in modules are no longer available – perhaps any future trips to scrap yards may turn up a couple. An alternative source could be the "Used Equipment" advertisements that appear in *Wireless World*.

I am looking around to see if any manuals still exist and will gladly send them to you at no charge, should we succeed in locating a set.

Thank you for your letter and comments and hope you enjoy your refurbishing project if you go that route. I would point out that spare parts from us are not available but perhaps you could find commercial equivalents for the more common components.

Yours sincerely
TEKTRONIX UK LTD.
John Dedman

Within a couple of hours of reading Ron Tradgetts article in the Christmas Tek Times about the Post Office, an envelope arrived on my desk. It was addressed to Telequipment Ltd., London, UK.

The Post Office "Code Breakers" wrote on the envelope "Try 313 Chase Road, N14" and from there it was transferred to me by intersite van.

It was posted in Khartoum, Sudan, on the 14th December and was in my possession within 6 days!

I now wonder why my correctly addressed first class Christmas cards to London addresses take 4 days to reach their destination. Perhaps I should post them from Sudan and omit half the address. The Post Office appear to rise up to a challenge.

Chris Hugill – Maidenhead.

P.S. Readers may be amused to hear we are currently dealing with a bank in Cairo whose branch is called the "Moustafa Kamel Branch"!

Dear Mr. Harper,

It was interesting to hear of your experience with the Type 647A oscilloscope discovered at a local scrap yard. The MOD165K marking

LAMENT

The outside lane

When I started school they said I was bright,
That I was sure to go a long way.
At Junior school they said the same,
And folks say it to this day.

At a higher level they said, "She'll excell",
"Her I.Q. is one of the best".
"Her ability to grasp the facts,
Leaves the others with their heads
on their chest".

"She'll do well". What more could I ask?
So out into the world each day,
To earn my living at various tasks,
Electronics was one, you could say.

The years go by, I'm riding high,
Undeterred by the consequences.
My friends stood by, and said with a sigh,
"Don't worry, she'll come to her senses".

You see, the work I undertook,
Was classified, 'Parts Preparation'.
It's monotonous, boring and
exceedingly dull,
But I thought it would help the nation.

My workmates are great. Must I remonstrate?
Working with them is certainly fun.
But the thing that hurts the most with me,
Is the fact that I'm only GRADE ONE.
Margaret Andrews, Doreen Rowson, Moira White, Ivy Ball
– Hoddesdon.

Thought for the day

The world is divided into people who do things and people who get the credit. Try, if you can, to belong to the first class. There's far less competition.

(Dwight Morrow, in a letter to his son).

Margaret Andrews – Hoddesdon.

Everything we say should go through three sieves:
first, to see if it's true;
second, to see if it's kind;
third, to see if it is necessary.

Jim Rockall – *(Pinched from a calendar).*

The grass drinks dew
As the day starts anew –
Not even a chance of rain.
I change into top gear
And the motorway's clear
As I move into the outside lane.

Oh! What's this ahead?
Is my good day dead?
Am I going insane?
A Datsun truck
Who can't give a thought
Swerves into the outside Lane.

Now look at that tanker,
Driven by a wally,
Moving in much the same vein.
He thinks he can fly
As he fails – but must try
To pass, uphill, in the outside Lane.

Still I try to keep going
As a beat-up Citroen
Time upon time tries to feign
That he wants to get past
From the back o' the last
By switching to the outside lane.

Cor, look at that Robin
In front of me bobbing
And swaying along like a train,
It's totally obvious
That he's quite oblivious
Whilst I'm blocked in the outside lane.

No! No! What's this now?
An obstreporous lady!
My meeting I'll fail to attain
As now I am cowed
And frequently slowed
By a Rolls in the outside lane.

Now I feel like a song
As I rocked along.
The road is clear. I am sane
And . . . DID YOU SEE THAT? –
A squashed flat cat
Stuck to the outside lane.

At last! The road is clear
And I'm getting near
But! Who's this starting to gain?
I've just been done!
For doing a ton
Out in the outside lane!

Contributions for the Autumn issue to be published in September should be sent to Jim Rockall at Tektronix Harpenden. Stories and pictures by 15 August latest.

'GET FELL IN OUTSIDE'

Do you remember a quietly spoken sergeant suggesting that you and your friends should "Stand by your beds" or "Get fell in outside"? Roman soldiers and airmen are believed to have responded equally to 'Prope lectos consistere' and 'Foras ordo formetur'.

Then there was the jungle 'Knife,

fork, spoon, razor, comb and leather brush' sung to the regimental march.

The pictures of the P.B.I. kit layout may bring back happy memories of service life. If so, send them in a plain wrapper for publication in Tek Times.

Anon.



● Fred Karno's grandson enjoying a well earned rest.

Back to a 10 hour day!

From: Metrication Committee
To: All Employees

METRIC TIME

As doubtless you will have read in the National Press, it is hoped that we may be able to implement the following on 4th January 1976 in the whole of Great Britain (except the Isle of Man):—

From that date there will be 10 seconds to the minute, 10 minutes to the hour, 10 hours to the day and so on, delineated according to the following tables.

OLD TIME	NEW TIME
1 second	1 milliday
1 minute	1 centiday
1 hour	1 deciday (or millimonth)
1 day	1 day
1 week	1 deneday
1 month	1 dectaday
1 year	1 kiloday

The fortnight will be withdrawn.

Obviously, from the company standpoint, due to the fact that one old hour only represents $\frac{5}{12}$ ths of a new one, employees might be expected to work shorter hours: viz 3.25 decadays or millimonths per

day. However, as this is inconvenient for administration and payroll purposes, it is intended that the luncheon break will be shortened by $\frac{3}{8}$ of a new hour, thus making a total daily working time of four new hours. It is not expected at this time that any compensatory uplift will be given to salaries, except in the case of leap kilodays, where an adjustment will be built in at the end of the hectaday every 1.46 decamonths.

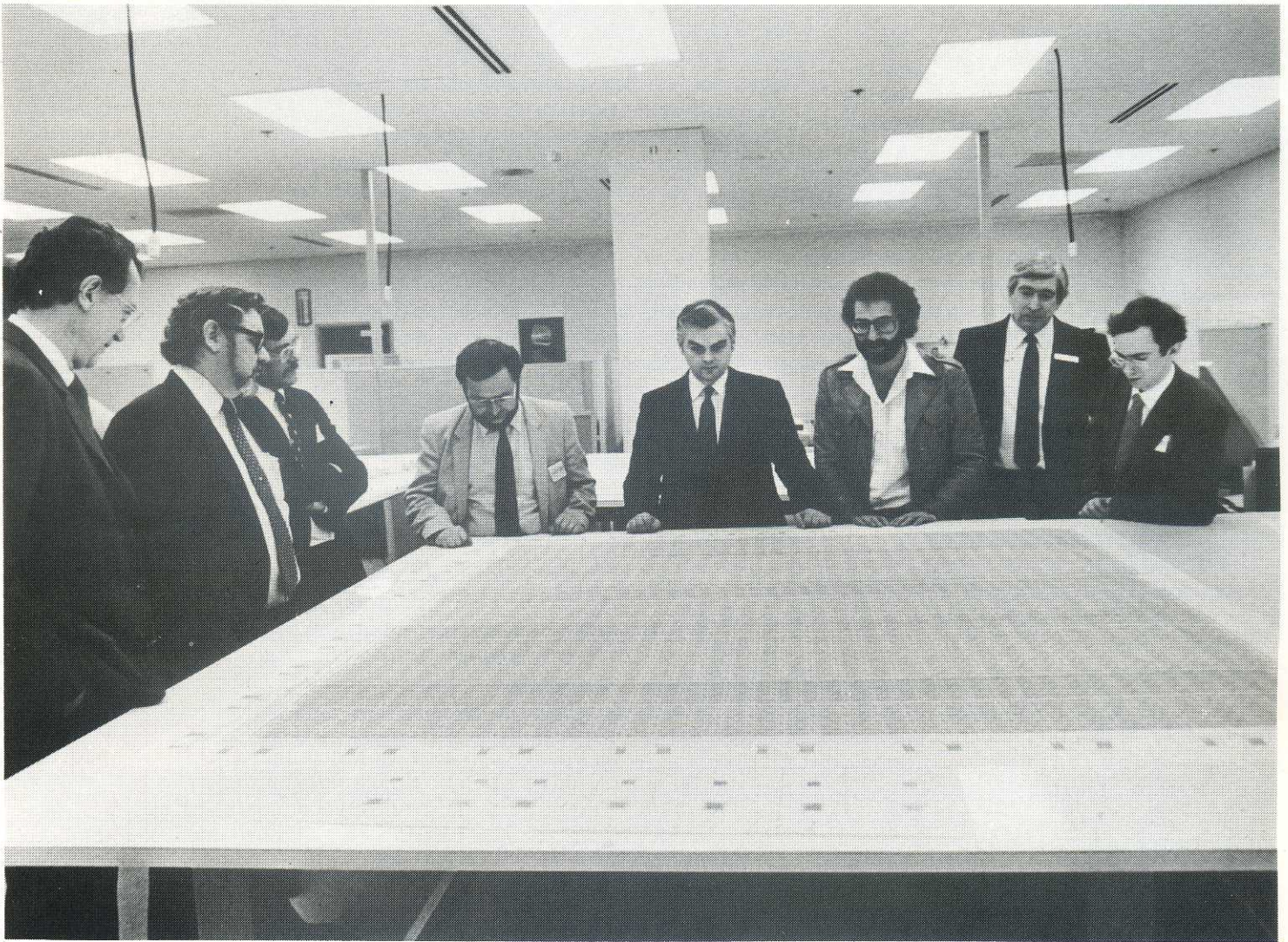
Overtime meal vouchers will be issued to non-management hectadaily roll employees for the time worked in excess of $\frac{5}{6}$ ths of a deciday, provided approval from local management has been obtained beforehand.

The Pension Scheme will not be affected, but superkiloday-annuation will be adjusted.

A further bulletin will be issued closer to deciday, but, if these arrangements present difficulties, or you have any queries, please do not hesitate to contact your supervisor.



Industry minister visits Tek



Mr. Norman Lamont, Minister of State for Industry of the UK, visited Textronix Beaverton on March 17 along with Andrew Sanders and John Alty from the UK Department of Industry in London, and Marcus Robinson from the British Consular General in San Francisco.

The Minister was in the US meeting with companies in the aerospace industry, but scheduled a stop to talk with Tek management and look over some of our R&D facilities.

During discussions with Earl Wantland and other corporate officers, Mr. Lamont was optimistic about the economic situation in the UK. He said "We'll emerge from this recession more slowly than in the past, but the UK's basic financial position is very strong". He anticipates significant increases in levels of commerce and world trade and emphasized several factors that make the UK a primary market for growth, including:

- A low level of inflation and a tight anti-inflation stance
- One of the lowest levels of foreign borrowing

- Stable supply of North Sea oil
- A strong work ethic and availability of technically skilled people

He provided good insight into the general economic and political environment in the UK and highlighted several areas of opportunity for Tek to consider.

Earl, in turn, gave the Minister a better understanding of how Tek is structured and where we place priorities. He summarised the current situation by saying, "These economic times cause us to move cautiously. Right now we're gritting our teeth and putting more money into R&D to build for the future. As always, the first order of business is serving customers better . . . and that's the primary consideration in all of our long-term planning".

Following the meeting, the visitors toured IC Manufacturing (Bldg. 59) where they saw some of our most advanced technology and processes in computer aided design and wafer fab as well as some of the unique structural features that went into the design of the facility.

After the visit to Tek, the Minister travelled on to visit Aerospace facilities in the US and Brazil before returning to the UK.

● *The Minister with members of the Department of Industry and the British Consular General in San Francisco; Touring I.C. Manufacturing in Beaverton where they saw some of our most advanced technology.*

Brain Teaser

The following is by no means an indication of level of intelligence. It will, however, give you some idea of your mental flexibility and creativity. Since we developed this test for our advertising copy personnel we have found a few persons who could solve more than half these questions immediately, and two who solved 20 in 24 hours. Nobody has completed the test in a week unaided.

Questions

Example: 16 = O in a P

- 1 26 = L of the A
- 2 7 = W of the AW
- 3 1001 = AN
- 4 12 = S of the Z
- 5 54 = C in a D (with the J)
- 6 9 = P in the SS
- 7 88 = PK
- 8 13 = S on the AF
- 9 32 = DF at which WF
- 10 18 = H on a GC
- 11 90 = D in a RA
- 12 200 = P for PG in M

Answer: 16 ounces in a pound

- 13 8 = S on a SS
- 14 3 = BM (SHTR)
- 15 500 = C in the FFH
- 16 24 = H in a D
- 17 1 = W on a U
- 18 5 = D in a ZC
- 19 57 = HV
- 20 11 = P in a FT
- 21 1000 = W that a P is W
- 22 29 = D in F in a LY
- 23 64 = S on a CB
- 24 40 = D and N of the GF



Val, Joan and Rose retire . . .

● Photographed with Guan Tian and Ron Nott are, from left to right, Val Haines, Joan Brown and Rose Mead on the occasion of their retirement from TEK Hoddesdon on the 17th December.

Val and Joan have 10 and 12 years service respectively, in the Production Inspection areas, and Rose with 12 years service has been

actively engaged during the latter years in Cabinetizing D1000 oscilloscopes.

We at Hoddesdon wish them good luck, good health and a long and happy retirement, along with our thanks, for a happy association over the years.



. . . Kathy too!

● Pictured at her retirement presentation just before Christmas is Kathy Peden, who had been with Tektronix at the Hoddesdon plant for ten years.

Kathy worked most recently in the ECB area of Production, but friends throughout the plant contributed to the collection for this well liked personality. Manufacturing Manager Jerry Loe (right) presented her with flowers and other retirement gifts. Looking on is John Murphy, ECB

Assembly Manager.

Kathy does not intend to be idle in her retirement. She had not one, but two voluntary jobs lined up, as librarian at the Princess Alexandra Hospital, Harlow and as a helper with the Harlow branch of the Scout Movement.

All her many friends and colleagues at Hoddesdon wish Kathy happiness in this work.

53 MILES FOR CHARITY



The hall at St. Barnabas' Church, Hattersley, was packed for a disco dance in honour of David Whittaker, Service Engineer, Tek Stockport, and a friend Bill Wallace, who works for Walls meat company. The duo had walked 53 miles from Hattersley to the Wirral to raise money for the church.

The social evening was by way of saying thanks to both men and their back-up team. Canon John Bowers, vicar of St. Barnabas, who welcomed both men at the end of their marathon slog, said "When I saw them finish I was overwhelmed with pride for a really tremendous effort".

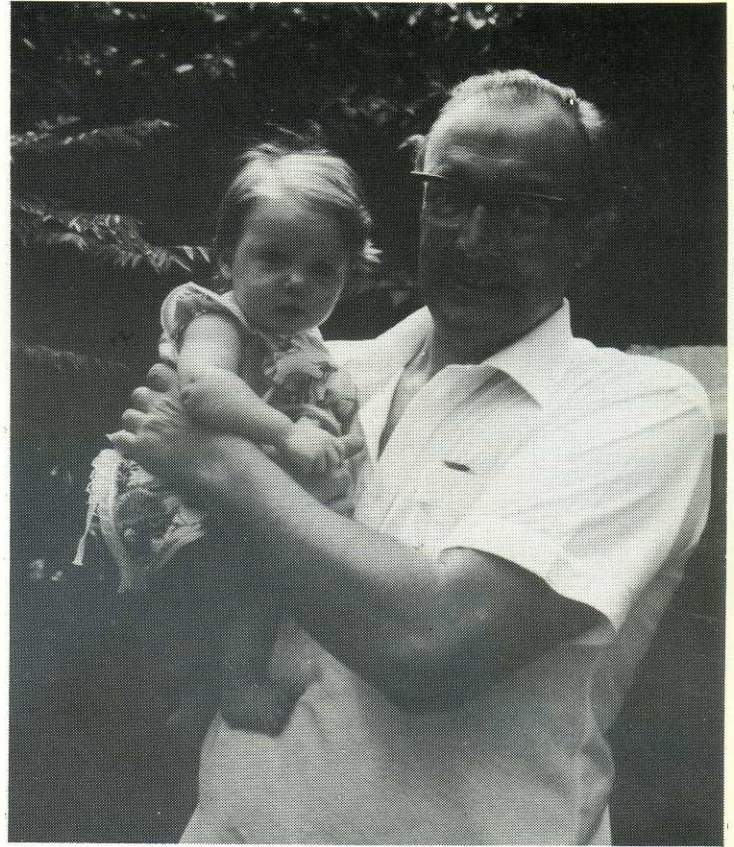
The lads walked to Willaston,

● *Tek man David Whittaker and his friend Bill Wallace 10 minutes from finishing their 53 mile sponsored walk.*

where they were met by the vicar of Hattersley's "link" church, the Rev. Kenneth Taylor.

The highlight of the evening was the presentation of two inscribed tankards to David and Bill from the church. Wive Moira Wallace and Pam Whittaker ended the night with their arms full of flowers. Bouquets were presented by their husbands and by the church.

David and Bill hope to raise £300, which will be spent on resurfacing the church car park.



JIM LONGMEAD

All who knew him were deeply saddened by the untimely death of Jim Longmead on 5 March 1983.

Jim had worked for Tek for a total of 14 years both as a Customer Service Engineer and Field Service Manager and was one of the great characters within the company, passionate in his endeavour to help the customer and sincerely

concerned if prevailing conditions seemed to put obstacles in his way.

He was, as his many friends would testify, a man of great kindness and sincerity, a mentor, a confessor, a friend for life.

He will be missed and the world will be a poorer place without him.

Mike Smith – Maidenhead.

MEETING OF THE FORCE



● *The ID salesforce at their recent sales meeting in Guernsey.*

Caption Contest



● Ed Morrison and Ray Ganderton at the 1982 Harpenden Superstars competition.

Captions please to the Editor, Tek Times, Harpenden.

Last issues best captions

"Following in Father's footsteps, I am following my dear old D.A.D."
 "Hey, this thing has got more bytes than my teething ring!"
 "Just working out your commission Pop".
 "I hate calculus homework".

John Trew – Maidenhead.

"Software from Mothercare".
 "I'm de goirl dat found de lost bawd".
 "Hey Dad, can I get jelly beans on this menu?"
 "When I grow up I want to work with D.A.D."

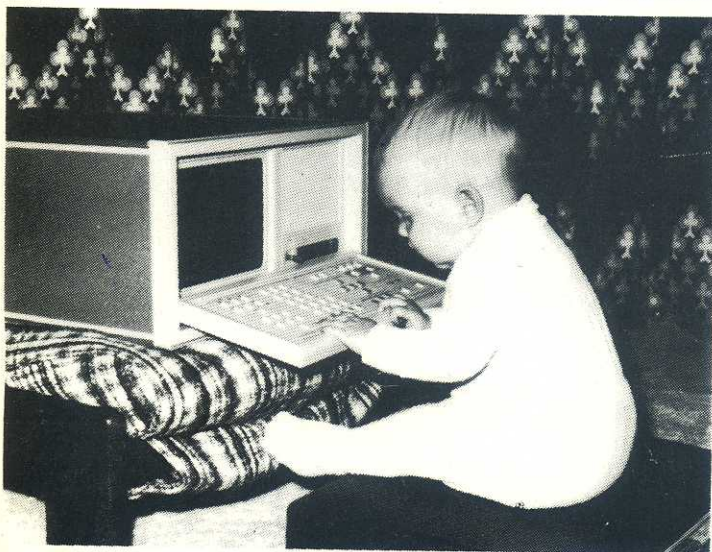
Dave Fynn – Maidenhead.

"I'm surprised John Mills finds it so difficult!"
 "104 Channel is such a limitation".

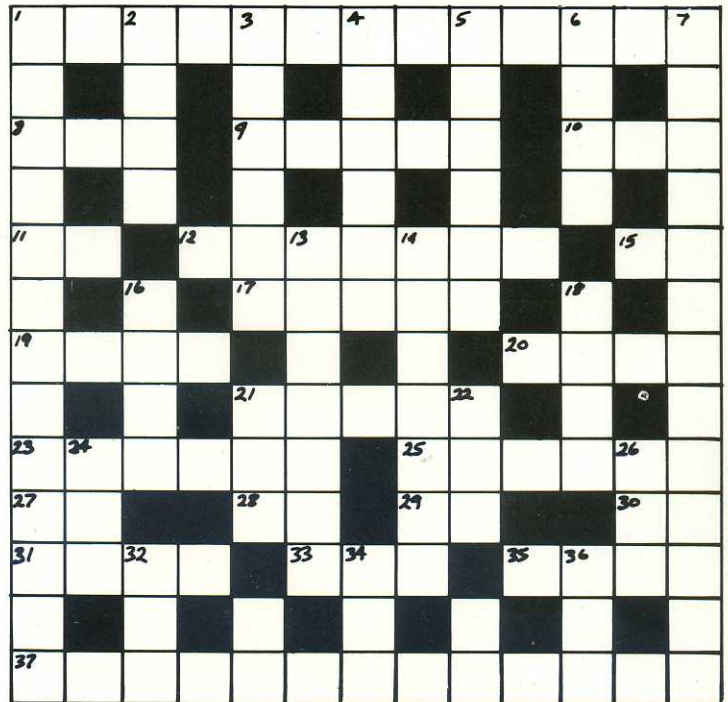
Ray Ganderton – Harpenden.

"Da ... Da ... Da ... Da ... DAS!"

John Seaman – Harpenden.



CROSSWORD



Across

- 1 Suitably (13)
- 8 Spot for a bishop (3)
- 9 Between a seat congregation (5)
- 10 Measured in radians (3)
- 11 Road for a pious man? (2)
- 12 Questioning (7)
- 15 A glass of milk may be for him (2)
- 17 Exhilarate (5)
- 19 A little Greek (4)
- 20 Said to turn (4)
- 21 A place to stoke (5)
- 23 Drive (6)
- 25 Titania's spouse (6)
- 27 As far as; until (2)
- 28 Address an ancestor (2)
- 29 Preceded Shaw (2)
- 30 Copper coin of ancient Rome (2)
- 31 Elementary pressing (4)
- 33 Strain (3)
- 35 Support your overheads (4)
- 37 A devout biologist does (6, 7)

Down

- 1 Enforced termination (13)
- 2 Spotted (4)
- 3 Unclear (6)
- 4 Sounds like we should hurry East (6)
- 5 Meet between the trees (6)
- 6 Vigorous style (4)
- 7 As evidenced by Sir Francis Chichester (13)
- 13 Concealing layer (7)
- 14 Study the ear (7)
- 16 As it was (4)
- 18 Obstinate (4)
- 21 Cold and aloof (3)
- 22 Decline (3)
- 24 Western peak (3)
- 26 A grass (3)
- 32 Select (3)
- 34 Immature (3)
- 36 Tree for sportsmen (3)

Compiled by **Derek Smith** – Harpenden.

Solution to crossword in Christmas Tek Times (No. 35).

E	A	V	E	S	D	R	O	P	P	E	R	S
N	I	A	E	A	I	A						
C	H	E	S	T	B	R	A	D	A	R		
O	W	E	E	V	E	R	B	E	C			
U	N	S	A	D	D	L	E	D	R	I	A	
R	S						I	O	V	S		
A	C	C	O	M	P	A	N	I	M	E	N	T
G		N	E	E			P					
E	R	A		D	E	N	D	R	I	T	I	C
H	R	A		P	A	P	E	R	Y	A		
E	V	E	N	S		F	S	E	P	L		
N	C		K		F		I	A	L			
T	R	A	D	I	T	I	O	N	A	L	L	Y