

MERRY CHRISTMAS

TI Workshop
Saturday
12th March 2005

TI AGM
Saturday
4th June 2005

TI-Treff
16th/17th/18th
September 2005



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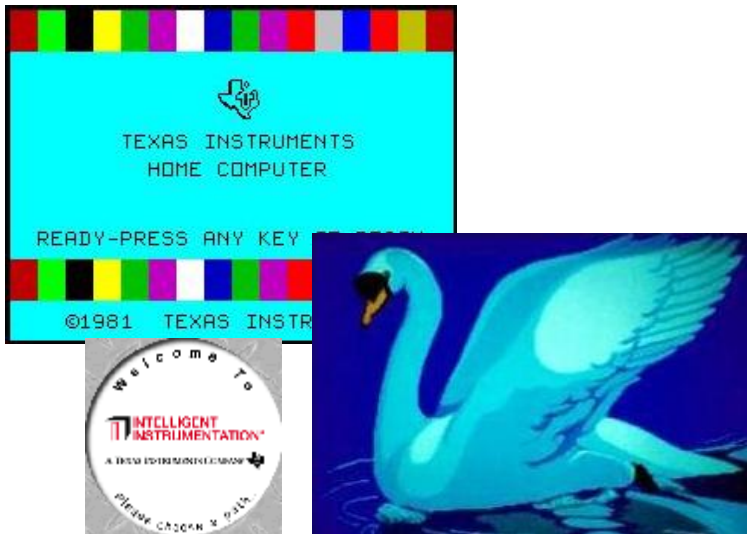
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2005 Diary Dates

Saturday 12th March 2005

The TI-99/4A User Group U.K. Workshop.
Stanton St. John, Oxfordshire.

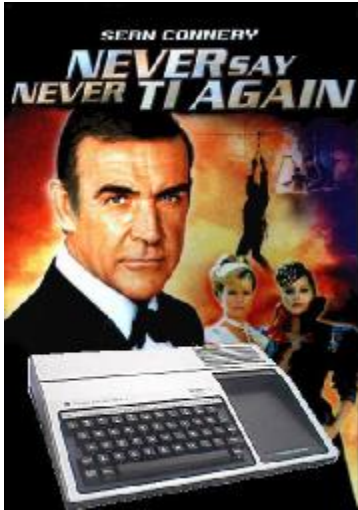
Saturday 4th June 2005

The TI-99/4A User Group U.K. Annual General Meeting.
The Station Hotel, Newstead Station, Newstead Village,
Nottinghamshire

Friday 16th to Saturday 18th of September 2005

Berry Harmsen and the Dutch TI Users Group organise
the 20th TI Treff
Hotel Wilhelmina, Venlo province, Limburg, Netherlands.





Richard Twyning

NEVER SAY NEVER TI AGAIN!!!

Dear TI'ers,

I'll apologise that it won't be much of an article from me this quarter. I'm trying to start and finish the editing of the mag in just three evenings.

This evening is the 6th of December and I only have tonight, Tuesday, and Wednesday to

complete the magazine. Thursday night I'm out for my work's Christmas meal and Friday night, I'm hoping to go to Trevor's to print the magazine! :-)

This magazine will be quite a short one. It, and most of my article will be devoted to giving you dates and directions for the events we've got to look forward to in 2005.

The first event to look forward to is the workshop. Francesco Lama has kindly organised it for us on Saturday 12th of March 2005. It will take place in the village of Stanton St. John, 3 miles from Headington, North East of Oxford. Francesco has provided us with directions for the event and I have provided some maps....



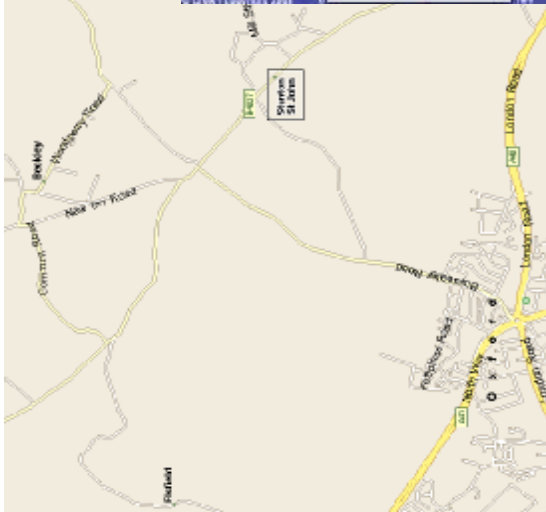
DIRECTIONS TO STANTON ST. JOHN VILLAGE HALL

FROM THE NORTH OR EAST: approach Oxford along the M40 (whether coming from the Birmingham or the London direction), and leave the motorway at junction 8, heading for Oxford along the A40.

The dual carriage way will continue until you reach the Green Road Roundabout, where you will need to take the fourth exit (signposted Barton, Horton-Cum-Studley etc..). Follow this road down into the dip and up the hill on the other side. Continue along it until you reach the staggered junction at the end. Turn right at this junction and drive on until you reach a pub on your left-hand-side, called "The Talk House". Turn left into the village of Stanton St. John immediately after the pub. You will soon pass a second (and much better) pub, called "The Star Inn". Continue past the pub, and you should see



signs for the TI99 Workshop, pointing towards the Village Hall car park, on the right hand side of the road (if you reach the church, on the left hand side, you'll have gone too far).



FROM THE WEST: approach Oxford along the A40 (from the Gloucester direction). You will first come to the Wolvercote roundabout. Take the third exit off it, and continue along the Oxford ring-road. You will come to a second roundabout (Banbury Road), at which you should take the second exit, in order to again continue along the Oxford ring-

road. Drive on for several miles, until you reach the Green Road Roundabout. Take the first exit off this (signposted Barton, Horton-Cum-Studley etc.). Follow this road down into the dip and up the hill on the other side. Continue along it until you reach the staggered junction at the end. Turn right at this junction and drive on until you reach a pub on your left-hand-side, called "The Talk House". Turn left into the village of Stanton St. John immediately after the pub. You will soon pass a second (and much better) pub, called "The Star Inn". Continue past the pub, and you should see signs for the TI99 Workshop, pointing towards the Village Hall car park, on the right hand side of the road (if you reach the church, on the left hand side, you'll have gone too far).

FROM THE SOUTH: approach Oxford along the A34 (from the Newbury direction). Proceed past two main exits for Oxford, signposted Cowley and Bottley (North Hinksey) respectively, and turn off at the one signposted Woodstock and Blenheim Palace. At the subsequent roundabout take the

fourth exit (dual carriage way towards Oxford, make sure you do not go up the bank again to the A34!). Continue along this road until you reach the Wolvercote roundabout. Take the second exit off this roundabout, and continue along the Oxford ring-road. You will come to a second roundabout (Banbury Road), at which you should take



the second exit, in order to again continue along the Oxford ring-road. Drive on for several miles, until you reach the Green Road Roundabout. Take the first exit off this (signposted Barton, Horton-Cum-Studley etc.). Follow this road down into the dip and up the hill on the other side. Continue along it until you reach the staggered junction at the end. Turn right at this junction and drive on until you reach a pub on your left-hand-side, called "The Talk House". Turn left into the village of Stanton St. John immediately after the pub. You will soon pass a second (and much better) pub, called "The Star Inn". Continue past the pub, and you should see signs for the TI99 Workshop, pointing towards the Village Hall car park, on the right hand side of the road (if you reach the church, on the left hand side, you'll have gone too far).

The second event to look forward to is the **Annual General Meeting**. It's YOUR chance to have YOUR say about YOUR group!

Last year's turnout was abismal. It was the worst AGM in TI history. It was probably the first meeting in group history where there was no actual TI hardware running at the event!

This year I've made sure I've got the event organised in plenty of time that people can make arrangements to attend.

This year it will be held at The Station Hotel, Newstead Station, Newstead Village, Nottinghamshire. If you're travelling by Train, you need to get yourself to Nottingham Station and then travel on the Robin Hood Line. Newstead is half way between Nottingham and Mansfield on the Robin Hood Line.

Directions to the AGM. Head for junction 27 of the M1.

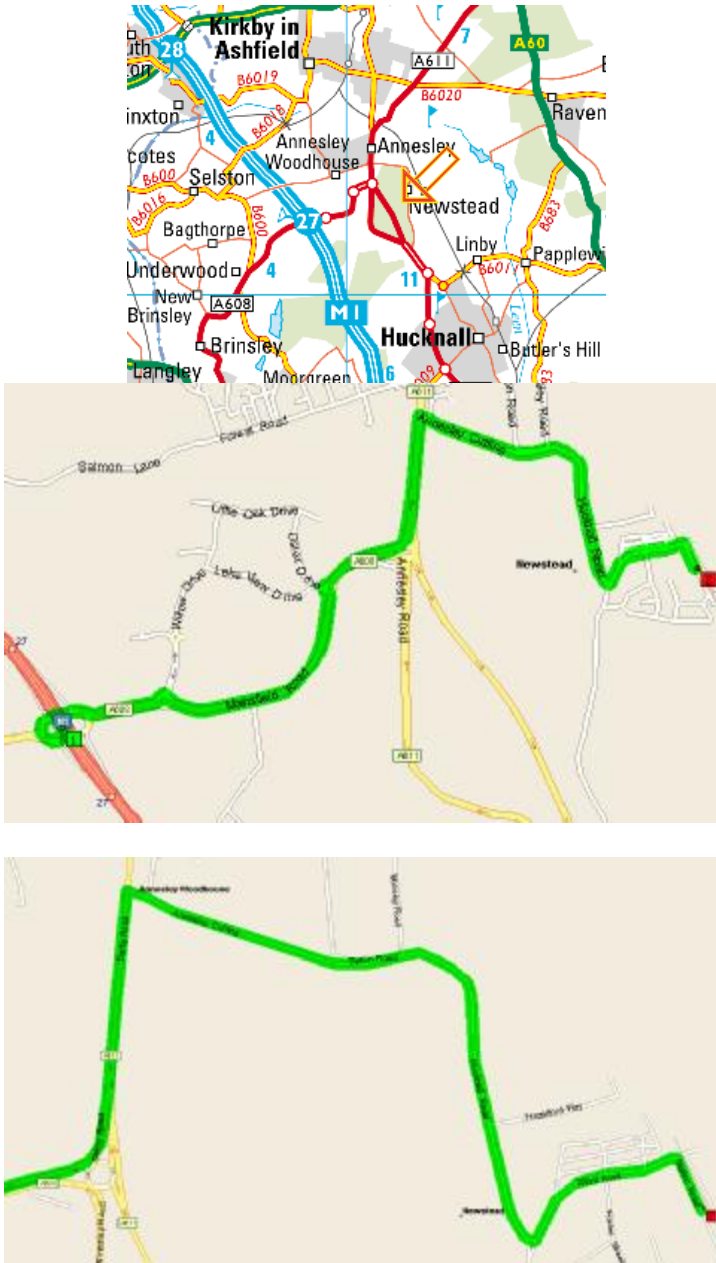
Then, head down Mansfield Road (A608). Go over the two roundabouts. The second roundabout exit bends sharply to the right.

Turn left at the next junction and you'll now be on the A611 (Derby Road).

You'll go through a wooded area and then look out for Annesley Cutting on the right.

Follow Annesley Cutting around and look out for Tilford Road, then Station Road.

By now you should see the railway crossing and to your right you should see The Station Hotel right beside the railway. Turn right to Station Hotel. If you've gone over the railway crossing, then you've screwed up and gone too far and you need to turn around!!!



PEACE ON EARTH, GOOD WILL TO ALL MEN

Directory of U.S. Military Rockets and Missiles AGM-45

Texas Instruments ASM-N-10/AGM-45 Shrike

The AGM-45 Shrike was the first dedicated air-to-surface ARM (Anti-Radiation Missile, sometimes also called Anti-Radar Missile) of the U.S. armed forces. It was used in very large numbers by the USAF and the U.S. Navy, until being replaced by the AGM-88 HARM.

Development of the Shrike began at the NWC (Naval Weapons Center) in 1958 under the designation ASM-N-10. The missile was intended to counter the threat of the then new Soviet S-75 surface-to-air missile system (known to the NATO as SA-2 Guideline) by homing on the emissions of the SA-2's "Fan Song" guidance radar. The ASM-N-10 was based on the airframe of the AAM-N-6/AIM-7C Sparrow III missile, but had a larger warhead, smaller rocket motor, and smaller tail fins. In June 1963, the ASM-N-10 was re-designated as AGM-45A, and large-scale production of the initial AGM-45A-1 model for the USAF and the U.S. Navy began at Texas Instruments and Sperry Rand/Univac. It entered service with the Navy in 1965.



Photo: USAF
AGM-45 (exact model unknown)

The AGM-45A was used in combat by many different types of tactical aircraft in South East Asia, including the A-4, A-6, A-7, F-4, and F-105G. It was powered by a Rocketdyne MK 39 solid-fuel

rocket motor (or Aerojet MK 53 MOD 1 in some missiles), and was controlled in flight by its forward cruciform wings. It could use three different blast-fragmentation warheads, the 67.5 kg (149 lb) MK 5 MOD 0 and MK 86 MOD 0, and the 66.6 kg (147 lb) WAU-8/B, and employed a dual-mode (proximity and impact) fuze. The ATM-45A was a training round with the motor and seeker of the AGM-45A, but with an inert warhead section.

The original mode of operation was to send the Shrike on a lofted trajectory (for maximum range) towards a suspected SAM site. As soon as the missile had passed its peak altitude and started to come down, its seeker would detect the site's radar emission and home on it. Although it was used at least with some success in the Vietnam conflict, the AGM-45 had a number of serious operational drawbacks. Most importantly, the seeker was tuned to a fixed frequency range, so whenever the enemy deployed a new radar operating on a different frequency, a new seeker variant for Shrike had to be developed. This led to a long line of sub-variants of the AGM-45 (tabulated below), and of course meant that the mission planners had to know in advance which types of threat radars would be encountered. A second problem was that the seeker was not gimballed and had a fixed and rather limited field of view, so that the Shrike had to be aligned almost perfectly towards the radar emitter to detect it. The third limitation of the AGM-45 was its lack of any kind of on-board target memory. When the SAM site shut its radar down (because Shrike-equipped attackers approached), any missiles already fired would lose lock, and go ballistic.

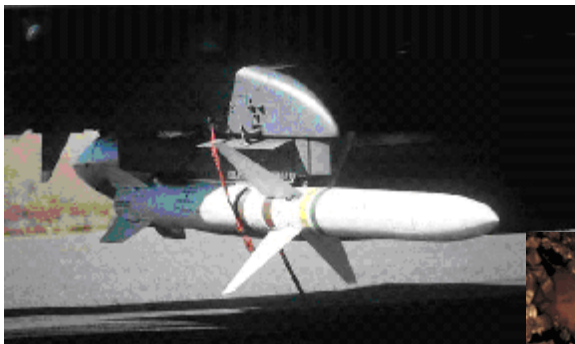
However, the Shrike could be considered semi-successful in that case, because without a radar, the SAMs wouldn't guide either.



Photo: U.S. Navy
AGM-45 (exact model unknown)

The AGM-45A-2 had a seeker tuned to a different frequency band and introduced a white phosphorus target marker in the warhead to mark the impact point. The AGM-45A-3 (as well as all later variants) employed angle gating to prioritize the target. Field modification of the guidance unit enabled the Shrike to be used in line-of-sight attacks. The attack aircraft could dive straight towards the SAM site with an activated AGM-45, which would be fired automatically as soon as the seeker picked up a radar emission.

The designation AGM-45B applied to Shrike missiles with modified warhead and motor, introduced in the early 1970s. The AGM-45B used an Aerojet MK 78 dual-thrust (boost/sustain) solid rocket, which significantly increased the maximum range (high-altitude lofted trajectory) from 16 km (10 miles) to 40 km (25 miles). The warhead was either a MK 5 MOD 1, MK 86 MOD 1, or WAU-9/B. The ATM-45B was the inert training variant of the AGM-45B.



The 20th TI-Treff. 16th 17th 18th September 2005

The 20th International TI-Treff is being organised by Berry Harmsen of the Dutch TI User Group.
It will be taking place at the Hotel Wilhelmina, Venlo, Netherlands...

Hotel Wilhelmina in Venlo, where atmosphere and hospitality have been a tradition for more than 125 years.

Wilhelmina



Traditional hotel with 43 comfortable rooms, a lift, a stylish restaurant, great food, a social bar, conference halls, WiFi (broadband internet throughout the hotel), privat parking spaces, situated opposite Venlo station and easy to reach from the A67 on the A73.
The best choice for a business trip or when you want to know the magnificent surroundings.

Hotel Wilhelmina - Kaldentallenweg 1 - 5912 AB Venlo - Netherlands - T +31-77-3510201 - F +31-77-3512252
www.hotel-wilhelmina.nl - info@hotel-wilhelmina.nl

You can book your place by contacting Berry Harmsen. His email address is.. berry.harmsen@wxs.nl

Here are some highlights for the Treff:

It will be Treff number 20: HOERA

Organisation: Dutch TI Users Group (TI Gebruikersgroep Holland)

Dates: September 16,17,18th 2005

Place: Hotel Wilhelmina in Venlo province Limburg, The Netherlands.

The Wilhelmina has a fully licensed bar, good restaurant, car park at the rear.

The price for the whole Treff is 100 Euros for 2 nights Bed & Breakfast, including the Treff dinner and admission to the Treff meeting.

Extra single rooms are available for 15 Euros per night.

If you are just visiting for the day and only require admission to the Treff meeting, then this is 5 Euros.

The main hall is 25 * 6.5 metres with 2 extra rooms for demo's. There is a private bar for the Treff in the main hall.

Treff dinner on Saturday night with EMA awards.

On the program: demonstrations, sales, hardware workshop, auction sale, flea market.

On Friday night there is a "ladies night" planned. This really gives the men chance to sit in peace and quiet in the bar unhaddled and able to pass information and discuss all things TI related ;-)

The Wilhelmina is opposite the main Venlo Railway station with fast connections in all directions.

British users are asked to email Berry for updates.

For laptop users, the Wilhelmina has FULL WI-FI wireless network





Hotel web site...
www.hotelwilhelmina.nl



**THE END
BUT ...
RICHARD TWYNING WILL RETURN
IN ...
TI ANOTHER DAY**



Another sad loss to the group.

Hello Richard

Thank you for keeping me up to date on the TI*MES which at last is a 21st century 1st as it is in Full colour, it has come along way from the 20th century and its great to see and read. I am lucky that after four years of moving house from Oxton to NESTON we still have the TI*MES forwarded to our new address.

First of all sad news my wife AUDREY whom you have met when we lived in Brighton died of cancer on 11 May 2004 age 56 at St Johns Hospice Wirral. this has been a shock as it was quite sudden as following a February holiday in USA and a mini break this year only then was it diagnosed as advanced. Audrey has been exceptionally brave and throughout the short ordeal kept dignity and courage.

Audrey will be remembered within the TI99 group as the very humorous "Dot Matrix" article which always reflected her wonderful sense of humour. I would also pay tribute for the way she worked to help found the new TI99 group and TI*MES.

A Police colleague and close friend wrote "No more tears , no more pain only traces of Laughter remain."

I am sure Richard that is how you will remember Audrey too.

Audrey is now a star that shines brightly in the sky watching over us.

When I wrote last time, I did ask if your group were interested in any TI99 hardware and software which I have stored in boxes. If this can be donated to the Group to keep it going please feel free to help yourselves. But we must have an assurance it will be put to good use for TI99ers.

Best wishes and regards

Clive Scally