



Iceni Newsletter August 2024

Coronavirus Impact Covid-19.

If you wish to join us just follow the link or paste into your browser:-
<https://meet.jit.si/IceniComputer> Full details for this are ClubMeeting and follow instructions to allow camera and microphone access. There is nothing to download or install. We still meet on the third Wednesday of the month at 7:30 p.m. via Jitsi.org Video conferencing.

Our Next Meeting :Wednesday 21st August 2024

Social Evening at the Brook Inn Washbrook, Ipswich 7:30 p.m.

Full details of this have been sent by email. It should be a very good evening. I look forward to seeing you there.

Our Last Meeting : Wednesday 17th July 2024

Starlink Systems with Solar power

- Gareth.

"Starlink has been revolutionary in providing internet access to remote areas and even more urban areas struggling with broadband provision in parts of the world. However it is designed to be mains powered and requires quite a lot of energy to run.

At the meeting we'll take a look at Starlink and the performance it

provides, and look at ways to run it from 12v/solar power sources when off grid."

The system can be very power hungry because it has the facility to melt the snow on the aerial (50W-100W). Cats like sleeping on the aerials!

Gareth showed the map of satellites moving across the globe. The satellites are at a relatively low altitude at 500 km (200 miles) and require fuel to maintain their orbit so that they have a limited life. Each rocket can carry 60 satellites. So far 6000 in situ , in future 12000. Peter was quite surprised by how many there were and began to see why astronomers were a bit unhappy.

There is a handover from one satellite to another every few minutes.

Gareth went camping with his system and although he could use the mains inverter from his car he wanted to reduce losses and take as little equipment as possible. Starlink now allows shipping and polar regions to use it although expensive to use. It used to be one satellite up and down but now they work satellite to satellite. Very clever. Laser links between satellites. <https://Satellitemap.space>. With an app on your phone too.

The aerial dishes have become more sophisticated too with each generation. Initially needed precise alignment using motors but now 3rd generation this is done using the phone app and is simpler. It costs £85 per month (30 days) but you can pause your usage of the 30 days.

If you wanted to use it on a boat it would be more expensive. Originally Gareth had to find all of the items separately in order to assemble his power supply system and the special aerial adapter cable from StarLink. He also had to buy the aerial pole. He had a Li-ion 12V battery and a Power over the Ethernet 48V with a 48V to 12V converter. Now YAOSHENG has a StarLink adapter which uses 12V at 12A for the Snow melter. Now Chinese manufactured items (as a kit) are available on Amazon.

It is possible to set up a sleep schedule to turn it off during the day and without the snow melter you are still taking about 25W. Using the App in

your phone gives 81Mb/s down and 20Mb up. Gareth uses 2x100 W solar panels i.e. 2x200 AHr to PbAcid batteries, less if went Li-ion.. He can balance the power/weather and engine and needs 12W for his camper fridge. Lithium packs can run for a day. He has a waterproof WiFi unit 100.107.230.23 the Ipv.4 address coming from Starlink.

Chat: At the start of the meeting Peter was using Chrome Canary as browser and his own view was missing. Paul guided him to reset it. The procedure is click on 3 dots at base of screen – more actions/settings/general/ this shows a box for “Hide self view” this was ticked. Unticking this sorted the problem. There was some chat and an mirth about using a background image which gave the effect of the presenter floating in the scene.

ICENI Future programme

2024	Subject	Speaker(s)
21 August	Social Evening at the Brook Inn Washbrook. Details later.	All
18 September	Telephony and VOIP BT landline changes. Porting Numbers	All
16 October	Dream Machine and Networking	Gareth and Michael
20 November	Video and Stills	All
18 th December	Party & Gadgets	All
2025		
15 January	Software defined Radio SDR	Duncan
19 February	3D printing, Octovision and RPI	Gareth and Peter
19 March	Operating System upgrades, Windows, IOS, Ubuntu and Riscos	Gareth, Michael, Steve et all.
16 April	Chrome OS	Gareth
21 May	AGM and Extras	All
18 June	Open	

The programme is open to changes as the year unfolds and topics may become more detailed.

MEETINGS WILL NOW BE HELD ONLINE BUT STILL ON THE THIRD WEDNESDAY UNTIL FURTHER NOTICE UNLESS OTHERWISE STATED..

Our Website and Email and Jitsi meetings

Our website URL is

<http://icenicomputerclub.org.uk>

Email to: iceni@woolridge.org.uk

The website is where you will find copies of the Newsletter from Previous years and also where you will find our Committee Members and future programme.

I am open to suggestions on what people would like to have included in the website.

JITSI Meetings

I am repeating this here from the top of the document.

If you wish to join us just follow the link or paste into your browser:-

<https://meet.jit.si/IceniComputerClubMeeting> and follow instructions to allow camera and microphone access. We have found some problems with screen sharing on the Mac if using Firefox, but using Safari or Chrome is ok as is using Windows.

There is nothing to download or install. We still meet on the third Wednesday of the month at 7:30 p.m. via Jitsi.org Video conferencing.

End