







Clive Sinclair



- Clive Marles Sinclair born to George William Carter Sinclair and Thora Edith Ella Sinclair near Richmond, Surrey on 30th July 1940
- His father and grandfather were both engineers
- Attended Box Grove Preparatory School
- Took O-levels at Highgate School in 1955
- Took S-levels (physics & maths) at St George's College, Weybridge
- Built a "punch card" binary calculating machine in his early teens Built radios etc for his family and friends while still in his teens
- Joined Practical Wireless as an editorial assistant in 1958
- Becomes Editor at just 18 years old!
- · Joined Bernard Babani book publishers same year
- Joins MENSA in 1959
- Registers Sinclair Radionics Ltd on 25/07/1961
- Joins United Trade Press as a technical editor in 1962
- · Marries Ann Trevor-Briscoe in December 1962
- First Sinclair Radionics Ltd advert in November 1962
- · First product Sinclair micro-amplifer
- · Sinclair Slimline radio launched in Feb 1963
- · Quickly gains a reputation as an electronics miniaturisation pioneer







Clive Sinclair





- Moves company to Cambridge in 1967 as turnover hits £100,000
- Continued expansion takes company to St. Ives in 1972 Sinclair Executive pocket calculator launched in 1972
- Cambridge range make Sinclair number one calculator seller in the UK
- Black Watch wristwatch and DM2 multimeter launched in 1975
- Additional funding from National Enterprise Board sought in 1976
- Sinclair Research formed in 1979 after previous company split up Sinclair ZX80 computer launched in February 1980 100,000 sold! ZX81 launched in March 1981 1,000,000 sold in two years!
- Spectrum launched in 1982, breaks all sales records!
- Guardian Young Businessman of the Year and Computing's Person Of The Decade in 1983 then knighted in June 1983, so becomes Sir Clive Sinclair
- Flat screen pocket TV launched September 1983 QL launched on 12th January 1984
- - Sinclair C5 launched in 1985

- Sinclair computer business sold to Amstrad in the summer of 1986
 Shaye Communications launched in 1986 to develop digital phones
 Anamartic launched in 1986 to develop Wafer Scale Integration technology
 Z88 portable computer launched by Cambridge Computer Limited in 1987
 Starts producing 'flat' satellite dishes in 1989

- Zike and Zeta electric bicycle technology launched
- X1 FM button radio launched in 1997, then Z1 micro AM radio in 1999 Launched Wheelchair Drive Unit in 2000 providing electric assistance for wheelchairs
- Develops the A-bike foldable portable bicycle







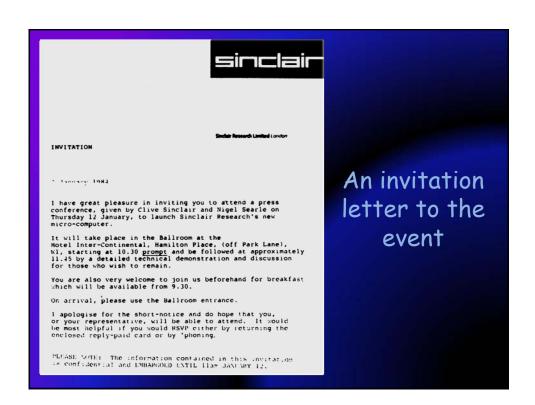


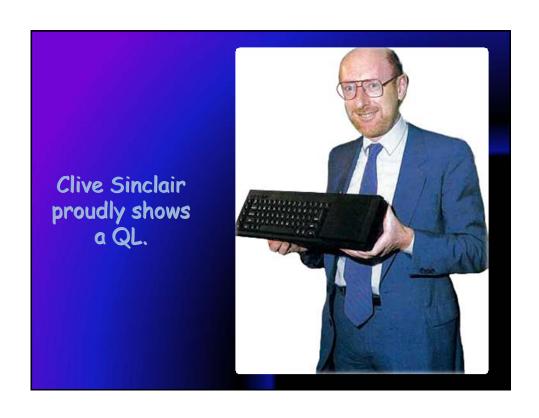


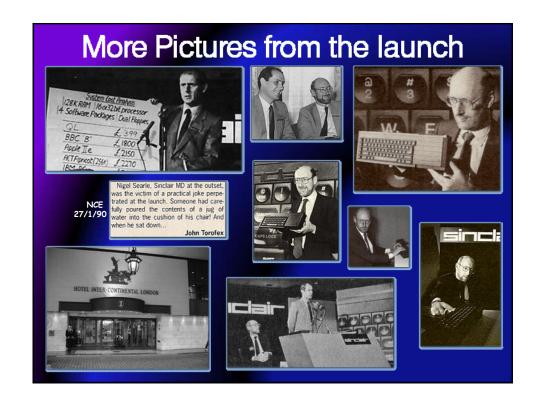
Thursday 12th January 1984



Whilst the QL did not find its way into the hands of users until later in 1984, 12.01.84 was the date when Sinclair invited journalists to a high profile launch event at the Intercontinental Hotel, Hamilton Place, in London.















Tony Tebby Resigns!

A resigned attitude . . .

One of the three people who created the QL resigned in disgust the day it was launched.

launched.
The big three were Jan
Jones (who wrote the Basic
compiler), David Karlin
(responsible for the
hardware) and Tony Tebby—
author of QDOS. It was he
who, appalled by Sinclair's
promise that the QL would
be shipped within six weeks
handed in his notice
immediately after the

handed in his notice immediately after the machine's January unveiling.

In the event Tony hung on a little longer, eventually fixing a date to leave after Sinclair's management decided to ship those first 89 machines without, he says, talling the effury and invited in the says, talling the effury after the machines without, he says, talling the effury and invited in the safter and in th telling the software division.

From QL User, Oct 1984

All was not well in the Sinclair camp. however. Tony Tebby, the designer of the QDOS operating system (who had apparently been recruited to work on Sinclair flat screen TVs originally) was so appalled at the premature launch of the QL

and the promise of a sixweek delivery that he handed in his resignation just after the launch on 12th January, although he stayed a little longer before leaving to form his own QL company, QJump, which became associated with many innovative QL products.



Tony Tebby

Only 89 QLs were dispatched in that first shipment at the end of April, no more appearing until the half-way decent machines were sent

decent machines were sent out a month later. So one vanload of half-finished QLs was responsible for the endless series of appalling reviews which appeared in monthly magazines – including this one.

But look on the bright side: the shipment did enable Clive to say that the machine had only been two months late.

months late.

From QL User, Oct 1984

Alternative OS for QL?

The tangled story of the QL's operating system receives another twist with the announcement that Cambridgeshire-based GST is to offer its K/OS (yes, that's right!) operating system for the machine to

end users.
GST was commissioned by Sinclair in early 1983 to write the operating system for a new micro and at the QL launch in January it was GST software which was responsible for the stunning demonstration of multitasking and multiple

windowing. But this GST operating system was dropped by Sinclair Research and the QL is now issued with firmware written by the company itself, QDOS.

GST 68k/OS

68K/OS BRINGS POWER TO YOUR OL



GST

ST's K/OS in full flow – the starts reen, the starting position just aft ounting a drive and one of the uti

The QL was to have used GST's 68k/OS operating system, but Sinclair wanted an OS which would fit in 48K of ROM, so used Tony Tebby's QDOS instead, and GST sold 68k/OS separately.

Other QL operating systems?





CUMANA UPGRAGE





GEM on its way for QL?

Minix

I've just heard on the grapevine that some-one has ported the Minix operating system to the QL. Minix is best described as a "poor mans Unix" and is more suitable than Unix for use on small single-user machines like the QL. It has been available for some time for the PC and Atari ST.

for the PC and Atari ST.

The Minix source code is in the public domain, so the QL implementation should be quite inexpensive. It comes with a C compiler (which presumably is good enough to compile itself and the Minix source code), and might be worth getting just for the Compiler.

THE DIGITAL Research
Macintosh-like Graphic Environment Manageroperating environment ould soon make an
appearance on the QL. Dix bosJoha Rowley says be has had
discussions with Stociair Research
about taking GEM to the machine
and said that the plan has good
prospects and that it would be
relatively straightforward to do.
Although no definite dates
have been set for a GEM QL.
release—at press time an agreethat an advantage of the commodore of the commodor of the commodore of the commodo

round the corner means that nei-ther Commodore nor Atari will be permitted to be complacent about their new machines.





QL to link students

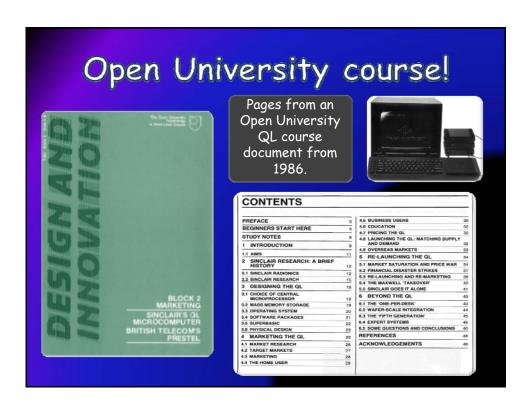
Intelligent Terminal

Intelligent Terminal
The supply of several hundred
QLs to students at a Scottish
uiversity seems likely to
involve the machine in some of
the UK's most advanced
computer research.
One hundred QLs from
Sinclair Research, and several
hundred more from the
University itself, will be
provided on extended loan to
students at Strathelyde
University. Strathelyde's
importance as a centre of
research into machine
intelligence, as well as its
strong links with the Turing
Institute, will mean the
development of artificial
intelligence (AI) programs on
the QL.
The University is keen to use
the computer's
implementation of Lisp (a

The University is keen to the computer's implementation of Lisp (a language much used in AI work) for tuition and researe on such advanced computer capabilities as expert system

Computers go to college







More Sinclair Adverts





Market Research

After the launch of the QL, Sinclair commissioned some market research to find out how best to market the QL to novice users and non-specialist business or professional users.

One result of this was a slogan that Sinclair would use often:

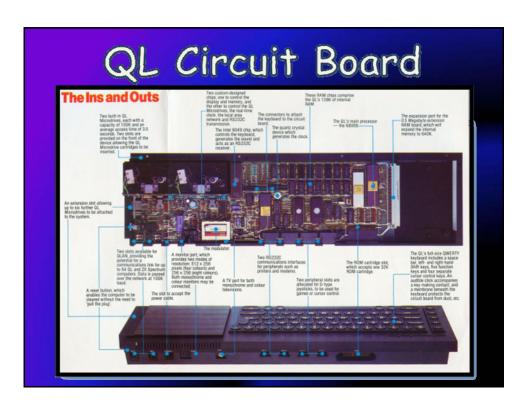
"The most enjoyable introduction to serious computing."

This allowed the QL to be seen as a 'serious' machine, though fun to use and suitable for beginners. It also emerged that the QL manual looked quite impressive, so it became prominent in ensuing adverts.











Microdrive cartridges are the QL's own unique storage med-ium. Each stores up to 100K of information (that's 40 pages of A4 text), on a cartridge no bigger than a book of matches!

Over 500,000 cartridges ar now being used throughout Britain.

You can store up to 50 diffe ent data filesper cartridge, ident ified by titles of your own

Did you know.

can be used on a QLI Twist the coble between the QL sudy port and the ZX drive, so that the ZX drive faces backward





An inside look at the QL's microdrive drives







The Microdrive Wallet

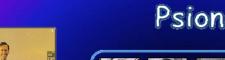
Reliability OR Credibility

Ablex Audio Video, one of the country's biggest custom duplicators are currently copying programs onto almost 100,000 microdrive cartridges a week. For this they are using 50-60 special QLs. Cartridges are formatted 6 times, autorecorded, verified, soft-sector tested and so on. All of which ensures, so we are told, 100% duplication quality. Bearing in mind problems encountered in cloning some of Psion's programs, Ablex Audio Video, one of the

encountered in cloning some of Psion's programs, something however must be at fault. And if not the medium, then the mechanism.

Certainly, on that score, at the OPD launch ICL mentioned that they had improved the QL microdrives to give 99% reliability.

Confirming this, Nigel Searle added that most of the improvements had been fed added that most of the improvements had been fed back to Sinclair Research with the result that the drives on the QL were "just as good as the ones on the OPD" And, as if to indicate their faith in the device, Sinclair's MD went on to mention that they were looking into developing a "1 Megabyte Microdrive".





Psion founder David Potter beside the VAX minicomputer system on which the QL software was developed

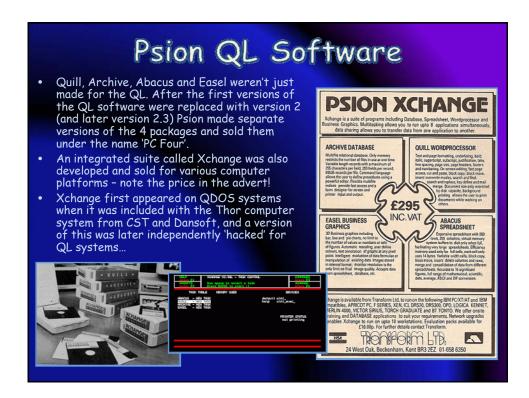


Martin Brown, Martin Stamp, Colly Myers and Charles Davies, team leaders for the Psion QL software packages





Psion was formed in October 1980 and made its name with ZX Spectrum software. It was formed as Potter Scientific Instruments, but since the PSI abbreviation was used by another company, it became known as Psion. In August 1982, Psion decided to develop an affordable business software suite and in Feb 1983 when the software was being developed on a VAX minicomputer, discussions began about putting it on a QL. On April 4th 1983, Psion began work on coding the software on the VAX. A BBC micro had to be used as a graphics terminal for the VAX (which had no hires graphics of its own) to develop Easel, and some of the packages were workign with rack-based early QLs by Late Summer 1983 and after a very busy Christmas period the packages were just about ready to show at the launch of the QL on January 12th 1984!



IQLUG - QUANTA

QUANTA



Recognising the need for a QL user group as soon as the QL was launched, Leon Heller and Brian Pain quickly set about launching the independent QL Users' Group in early 1984. At first, the organisation was known as IQLUG. The name 'Quanta' referred to the newsletter until the group's name was changed to Quanta in June 1985.

Leon Heller was a self-employed consultant, while Brian Pain lectured in accountancy at a college of higher education. They had formed the National TRS80 and Genie Users Group (NATGUG) in 1979 and thought that they "would organise something along the same lines when the QL came along."

With Leon's experience of 68000/68008 systems and the C language plus some early and unfinished QL documentation manuals, this enabled them to get the first issue out by February 1984, several weeks before the first QLs were sent out to customers. In fact, Leon had written the first newsletter himself in order to get the first issue out quickly, although the aim was to have most of the newsletter written by the membership eventually.



How QL World saw the name change at the time!

They also aimed to start organising workshops for the QL and even managed to send copies of the newsletter to Nigel Searle, Sir Clive, Psion and various other organisations before Sinclair managed to send any QLs out to customers! Leon also managed to find time to write QL columns for magazines such as QL World!

By the time the second issue (March 1984) came out, the group had over 100 members, which wasn't as much as they'd hoped, but now seems remarkable given that few, if any, of them had a working QL at the time! 25 years on, the QL is still in use, Quanta is

Leon Heller at "QL Is 21" in 2005

still here, and we are now celebrating 25 years of QL-ing, our Silver Jubilee!



First issue of Quanta newsletter

. THE INDEPENDENT OL USERS' GR

1985 - The Price Cuts

In 1985, it became obvious that QL sales were not living up to early expectations partly because of the general downturn in the computer marketplace and partly due to the negative press the QL had received at launch and probably because the computer was seen as not particularly reliable and the fact that it had been launched without the floppy disk drives or cassette tape interface which many had hoped for.

So Sinclair embarked on a three quarter million pound marketing campaign, and a major price reduction of the QL itself which became possible, if not vital, because Sinclair needed the cash at a difficult time and needed to sell lots of stock quickly! So, from September 2nd, QL and microdrive prices were cut...

THE COLLAPSE of the ir empire may the way according to indus-try watchers and financial

pundits.

Sinclair Research has had to deal with a £5 million bank overdraft and debts totalling £10 million to pay off creditors Thorn EMI

Sinclair User, July 1985

As Prism dies Blood mops up

TERRY BLOOD is now the as a postbox for Sinclair in and the QL at about 500 a only distributor of Sinclair this matter," said a week, which is described as hardware in the country, spokesperson. The largest an improvement, "We have following the final liquidation of Prism Technology with total debts of \$17.5 million. Terry Blood is also helping to deal with returned Spectrums from Prism customers.

Sales of the Spectrum which means retailers have prism customers.

Plus are now said to be to do a lot more work. But the returns are very low."

Another hiccup which occurred was the loss of distributor Prism Technology, which went into receivership in early 1985 with significant debts, as this article from Sinclair User shows.



Sales Boost

Reduction boosts sales

Thousands of QLs were re-ported to have been sold in the weeks immediately following the price reduction. An independent survey of home computer soles by AGB Lektrak shows that after the price reduction the QL cap-med 5.8 nercent of the home price reduction. An independent nared 5.8 percent of the home computer market for the fourweek period ending September

THE PRICE reduction for the Sinclair products gave the com-QL to less than £200 increased pany a much-needed boost of sales of the machine dramatical-confidence with the news that it now has 56.8 percent of the market and expects to have more as the crucial Christmas buying scason approaches.

The price reduction of the QL to less than £200, increased its sales as it shows in this article (above).



QL In The Eastern-Bloc!

■ I heard recently that Sinclair has just received clearance from CoCom, permitting it to export QLs to Warsaw Pact countries. QLs have been slipping through the Iron Curtain for some time. I heard from some-one on the Hungarian import/export agency stand at Compec last year that several people in Hungary had QLs, in spite of the fact that CoCom approval had not been given at that stage.

stage.

I was also told that in Poland ZX81s are I was also told that in Poland ZX81s are being used for controlling coal-mining ma-chinery. Perhaps the claim in the old ZX80 advertisements that they could be used for controlling a power station was not so fur-fetched after all.

Leon Heller, QL

World Sen 1985

QLs and communists

When the OL first came out it was embargoed for export to most of the Eastern Bloc countries under the COCOM regulations.

Apparently, this was due to the use of the much-derided Microdrives for mass storage; it was thought that the storage density was too high.

Incidentally, I remember someone at Sinclair telling me that the deputy director of the Soviet Academy of Sciences had a QL. I wonder if he is still using it ...?

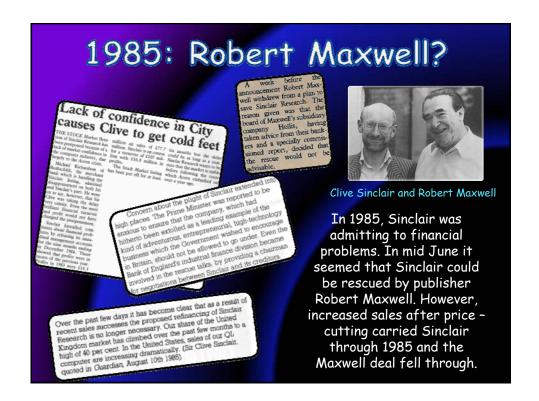
John Torofex

Comrade Clive

SMUGGLING COMPUTERS into Yugoslavia used to be big business because the government frowned upon the import of machines by individuals.

Despite the unofficial ban on microcomputers small groups have been able to smuggle machines into the country. As a result at least country. As a result at least country. As a result at least sison was taken at government level Julian Goldsmites have been launched and a game for the Spectrum about computer in the measurement level Julian Goldsmit a computer into the country may have to pay certain durable to the spectrum about computer into the country may have to pay certain durable to the spectrum about computer into the country may have to pay certain durable to the spectrum about computer into the country may have to pay certain durable to the spectrum about computer into the country may have to pay certain durable to the spectrum about computer into the country may have to pay certain durable to the spectrum about computer into the country may have to pay certain durable to the spectrum about computer into the country may have to pay certain durable to the spectrum about computer into the country may have to pay certain durable to the spectrum about computer into the country may have to pay certain durable to the spectrum about computer into the country may have to pay certain durable to the spectrum about computer into the country may have to pay certain durable to the spectrum about computer into the country may have to pay certain durable to the spectrum about computer into the country may have to pay certain durable to the spectrum about computer into the country may have to pay certain durable to the spectrum about computer into the country may have to pay certain durable to the spectrum about to change, all that is about to change, all t









After the Sale...

Sir Clive decided to start by giving a "bit of a rundown" on the events leading to the Sinclair/Amstrad deal.



"The home computer business, in which we are of course pioneers, hit very big trouble two years ago. The problem

arose because retailers misjudged the market and ordered heavily. Then they cancelled and we were left with a dearth of orders, in fact negative orders, effectively for several months.

"That caused us and other people in the business at the time very severe difficulties — cashflow problems and so on. The culmination was a very severe major re-organisation on our part and the route we chose eventually was to sell the existing computer range to Amstrad.

I asked Sir Clive if his reasons for selling to Amstrad were purely financial.

"They were financial. I mean we were in a position where we had a tight cash position. We had a choice. We could have sold some of the company to raise money to stay in the existing business but the only deal which could do that would not have given us sufficient money to do both the existing computers and the new technology — the waferscale stuff; and the new technology was what really

mattered so far as I was concerned.
"I mean, yes, of course the old stuff
mattered in the sense that it had been
important but it ceased to be innovative so far as we were concerned, in
particular the Spectrum.

Sir Clive Sinclair talking to Ken McMahon in 1986

Microdrive Shortages?

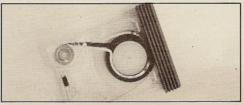
Following the sale to Amstrad, concerns arose about the continued supply of microdrive cartridges. As the article below shows, Sinclair came to an agreement with microdrive manufacturer Ablex in Telford, England to secure future supplies of the cartridges for the next few years.

Sinclair agrees to Sale of Microdrives

Sinclair Research has finally reached agreement with Microdrive manufacturer Ablex which should free the future supply of blank cartridges.

In the Amstrad deal, Sinclair retained ownership of Microdrive rights but has been reluctant to license their production. Ablex is under licence to produce Microdrives containing only pre-recorded software.

The deal is being described by Sinclair as an interim agreement. It covers only present stocks of cartridges held by Ablex which, with demand running at more than 50,000 a month, it is estimated will last for



Microdrives, the inside story. some three months.

Bill Nichols, of NMA Communications, the Sinclair public relations agent, says the purpose of the deal is "to end any confusion over the security and distribution of future supplies."

Negotiations between the two companies are continuing with the aim of reaching an agreement on continued manufacture and distribution of Microdrive cartridges.

After the Sale...

NEWS

A NUMBER of companies are negotiating to buy existing stocks and manufacturing rights of the QL micro, following Amstrad's announcement that it is not interested in pursuing the

interested in pursuing the micro.

Amstrad has so far had several firm offers for the stock of 19,000 machines and the rights to use that name, but none of the companies concerned have come up with enough cash. Amstrad wants to raise Eff& million through sale of the stock and throw in the manufacturing cinhts to the Ol. manufacturing rights to the QL

manufacturing rights to the QL free of charge.
The interested parties are said to include Timex, Digital Precision, Quanta, Eidersoft, and the Danish QL distributor Helmut Stuvern. All of the companies, except Timex, currently depend to a large extent on the QL for their livelihood.
Freddy Vaccha, managing director of Digital Precision, sees the Amstract takeover as a good move and is confident that the QL will survive.
One possibility is that a new QL

One possibility is that a n

Consortium fights for cash to buy QL

compatible disc-based

compatible disc-based machine will emerge from the wreckage of the QL. Said Freddy Vacha, "It is possible that someone might soon produce a QL compatible

machine. If anyone approached us with a reasonable plan to take on manufacture the QL we have funds which we would make available to them. Apparently the rights to QDOS are owned by Tony

Tebby – the software engineer who designed the QL's system software – and not Amstrad. "I happen to know that he's at present doing some modifications to QDOS," explained Vaocha. Tebby was unavailable for comment, but it is understood that the operating system, which first saw light on the QL, may be implemented on several new micros. Those include a machine, the Microbox Five,

which it will be possible to buy in either kit or ready-made form and which could include several operating systems including CP/M and MSDOS. Leon Heller, Chairman of the independent users' group Quanta, hinted that an Amstrad deal was in the air but that it was likely to mean the end of the OL microdrives. Sinclair Research was working on a disc-based QL as well as a 32-bit 68020 version of the machine. Development of a disc-based computer had been finalised but no plans had been laid to market it.

Whatever the outcome, QL software houses and hardware manufacturers are unlikely to let the machine go under the Anstrad guillotine without a fight.

After the Sale...

News Desk

QL rebirth for **ZX Microfair?**

AN announcement on the at-tempted buy-out of rights to the QL is expected to be made by the time of next week's ZX Microfair.

Leon Heller, chairman of Quanta, the QL user group, told Popular Computing Weekly he knew the details of the bid by a consortium of QL support comconsortium of QL support com-panies (see Popular Compul-ing Weekly. April 17), but he was unwilling to reveal them. He did however feel that Amstrad would be willing to sell that the upshot of the deal would be the long-awaited QL

2, with a full 68000 processor, 512-640K Ram and an internal 31 inch disc drive.

Add-on supplier Add-on supplier Micro Peripherals has also been spo-ken of as a possible buyer for the QL, but spokesman lan Donaldson dismissed the sug-gestion. "We're not a micro manufacturer", he said, "we're a supplier of add-ons." He said he'd welchen and takevar of a supplier of add-ons. He said he'd welcome any takeover of the QL, but felt that any compa-ny doing so would have to be "very, very big." Meanwhile dealers are re-porting difficulty in obtaining

porting difficulty in obtaining stocks of all Sinclair products.

Support for QL will continue

John Gilbert discovers that the fight to save the QL is by no means over

s confusion reigns over who, if A anyone, will continue to produce the QL—see news pages retailers, distributors and software houses have for the most part pledged continued support for the machine.

Customer support

Customer support
Leon Heller, chairman of Quanta, the
QL Users' Group shares the optimism of
companies such as Digital Precision,
Talent and DS Enterprises. He confirms
that Quanta will continue and even extend
that support services for QL owners. Heller
says: "A few days before the takeover
Psion asked if Quanta would take queries
from members of QLUB whose
subscriptions had run out.
"Since then I've written to Amstrad to
suggest that well handle all the customer
support for the QL from now on." More

The Futura

Sandy UK PCP advertised Tony
Tebby's proposed "QLT" or "Futura"
computer, but it never saw the light
of day because of the reluctance of
Italian parent company, Farmintel.
A PC board version was built but
was short-lived.

Elsewhere, plans by various QL peripheral and software companies (sometimes in cooperation with each other an sometimes not) to bring out anew version of the machine are continuing but, as yet, there is little sign of anything on the horizon. One scheme masterminded by QDOS author Tony Tebby reports considerable enthusiasm on the part of dealers and others but (in the last few weeks) some reluctance to match this eagerness with hard cash.



QView Medusa

In the period after after the QL was discontinued, a number of QL compatible machines were proposed, but few, if any actually saw the light of day.

QView was a three-man band of Stuart McKnight, Jonathan Oakley and Laurence Reeves. This company, rather modestly referred to as the QView International Megacorporation, had previously brought us the Minerva QDOS replacement ROM, Caps Lock LED kit and a few other bits and pieces. The Medusa was an ambitious step forward, but never saw the light of day as far as I know.

This article is from New Computer Express magazine in 1990

MORE MEDUSA

Some more information about the proposed Medusa QL clone has turned up, courtesy of the QView International Megacorporation – the people behind the Minerva QDOS replacement.

The processor will be either a standard 68008, as used in the original QL, the enhanced 68008FN (it can address up to 4Mb of memory) or the 32-bit 68020, with 512K bytes of 8/16-bit memory and up to 4Mb of 8/32-bit memory. The standard QL custom chips will be used.

Options are to include: a floppy disk interface; improved serial port; PC-compatible keyboard; parallel printer port; maths co-processor; and an SCSI hard-disk interface.

The operating system will be standard QDOS, Minerva or QJump's new SMS2, that is being developed for the Atari ST's QL emulator.



The CST Thor



The CST Thor computers were one of the few QL compatible systems to actually See the light of day in this period - three main models were released.

CST rescues QL from the dead

Full specifications of the Thor and information on the rescue plan
 Full details below and inside

HELP is at hand for the QL, with

•Thor 1 - 68008, uses a QL circuit board

•Thor XVI - 68000 based •Thor 20 - 68020 based

AMSTRAD BLOCKS

Amstrad insists that CST has no legal right to produce the Thor variant of the QL

The company insists that the "intellectual property rights" it bought from Sinclair include those to the QL circuit board It will block any attempt to produce machines based on the QL's hardware

CST quits U.K. after family splits









Only about 100 Thor XVI machines were built in the UK before CST moved to Denmark amid some controversy

CST quits U.K.

The QL's Cousins



OPD



ICL's One-Per-Desk project its much rumoured new micro, based on Sinclair's QL technology, is to be launched on November 18.

OL circuit board at its heart, includes a built-in modern and terminal emulation software, together with a monitor. One-Per-Desk will also use the QU's microdrives and be —the up-graded business versions of Quill, Easel, Archive and Abecus available on the QL—built in on Rom.

The whole package is axpected to sell for around £1,200, and will be markest under the ICL name.

Psion is at present negotiating with Acorn Computer Group to convert its Xchange suite of programs for the new Acorn ABC machines.

Sinclair had been willing to licence QL boards for other manufacturers to use. From this came the ICL OPD (One Per Desk) computer as well as a few derivatives such as the BT Merlin Tonto and Australia Telecom's AT Computerphone version. Based on QL hardware, including twin microdrive cartridges, the OPD was not a true QL compatible since ICL developed its own operating system and the microdrive format was different. It also featured a built-in telephone handset. The OPD was launched on 15th November 1984





Merlin Tonto

AT Computerphone

QL Compatibles

A SUPER QL DIY BOARD From a letter from Mike Lilley:

You may remember the little note in Quanta about a DIY-QL photocopies of one of the PCB's (+ other details) - there are at pr issue 1. The final version will have the couple of mechanical faults c (the board has been powered up and runs ok). The board is tight a skill, it has two non-standard PAL's (#1,#2) which would be supp 'buyer'. We would not provide a build-up service but would put pewho would provide a build-up service. We hope to have a fully wor Easter QL meeting on the 7/8/88.



Aurora



Aurora based Minis-





Sandy Q-XT 640



Atari ST-QL emulator



TOWER CASED SUPER QL DINSLAKEN, GERMANY - Martin Florichs

Olympic Computer Systems of Germany, and COWO Electronics of Switzerland, have announced a SuperQL. The machine will consist of a standard QL motherboard, switching power supply, Gold Card, and Disk Drives, all packaged in a custom Tower Case. The production run is limited to 50 units world-wide, at a price of 900 Pounds Sterling. If you are interested, contact:

Qlympic Computer Systems Quellenweg 18 4220 Dinslaken Germany Tel: 02134 4785 COWO Electronics Munsterstr. 4 CH-6210 Sursee Switzerland Tel: 045 211478



