

# **NATGUG**

# ***NEWS***

Volume 8, Issue 10.

April 1987

OFFICIAL JOURNAL OF THE

**National**

**Amstrad, Tandy**

**& General**

**User Group**

INFORMATION ON THE GROUP

Membership of the group is by subscription to the Newsletter which is published at regular intervals - application forms are available from the Secretary. Membership of the group is open to anyone with an interest in computers but special emphasis is placed on equipment within the Amstrad, Tandy, and MS-DOS range.

Details of the group's accounts and constitution are available from the Treasurer - please ensure that your requests are accompanied by a S.A.E.

Members requiring assistance with problems related to the machines specified should contact the P.R. Officer who will endeavour to put them in touch with possible advisers.

Sub-groups exist in many areas and their Secretaries are invited to forward details to our Editor/Publisher for inclusion in the magazine. The back page is being reserved for this purpose.

Public domain software libraries are maintained, in four separate collections: Model 1, Model 4, CP/M and MS-DOS. Names of the appropriate librarians are available from the Secretary. (also see Vol 8, Iss. 10)

Back numbers of the magazine, in 6-month volumes, are available at the price indicated on the application forms.

The group has no paid Officers or employees, and the issue of the magazine depends on contributions from Members, who are also invited to submit responses to questions raised in the previous issues. To allow legible print, we prefer contributions to be submitted on 5.25" disk, direct to the Editor - ASCII files are perfectly acceptable but please indicate the disk format used (SS,DS,SD,DD, track count, DOS etc). Your disk will be returned (If you enclose an addressed label) normally within 7 days. The Editor will accept written or typed articles where members insist - publishing will depend on readability .

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EDITORIAL

So NATGUG has had its 1987 A.G.M. and there is another name under the title of Editor. As you will see from the inside front cover my name is Gordon Collins, I live in West Midlands. I have been a member of NATGUG for about three years. I use a TRS-80 Model IV with 128K of memory and 80/40 track switchable drives.

At the A.G.M., Leon was again elected as Chairman, the other changes being as follows:- Secretary, David Washford; (I somehow think that 'Secretary's Report', is going to sound mundane after 'Oggy, Oggy, Oggy') Public Relations Officer, John Kilpatrick; and Roger Storrs, as Treasurer. John's title as P.R. Officer also includes helping to direct people to where they may obtain the information that they require. There are plans within the new committee, which we will be informing the membership about in due course.

Before going any further, I would like to put into print my thanks to both Brian Pain and Geof Smith for all the work that they have performed for NATGUG in the past, with the hope that there is still more to come. There has been many excellent comments about the layout of the newsletter during Geof's Editorship. (I hope that I can keep the standard up). It was acknowledge at the A.G.M. that no slight whatsoever was being directed towards Leon whilst he was editor, circumstances dictated that that was how the newsletter had to be edited.

NOW TO SWITCH TO CAPITAL LETTERS TO ANSWER THE PERSON AT THE BACK WHO PUT THEIR HAND UP. I SHOULD, WITH THE UTILITIES I HAVE, BE ABLE TO READ ALL TYPES OF DISKS, DOS's, ETC., INCLUDING CP/M AND PC-DOS. I would wish no one to have a reason for not writing into the newsletter. NO ARTICLES, NO NEWSLETTER. I am Editor of the Newsletter, not a creator of articles, it is the membership who submits the items for me to edit into the Newsletter. My title also includes that of Publisher, it is hoped that this will help to get a more speedy turn round of the Newsletter. I aim to send the copy of the Newsletter to the printers during the last weekend of the month, hopefully the Newsletter will then be sent out during the first weekend of the month.

I am only a 'recent' recruit to the computing community, so I still have a lot of learning to do, but I do hope that we can all learn something together. I will welcome any article in whatever format, with the reservation that I may have difficulty reading tapes - but lets give it a try. I know from recent contacts, that there are a great number of Model 1 users out there, who have told me that they feel 'out in the wilderness'. I promise you, that was me four years ago - I then used a Video Genie (I'm not much further on now). If you do have a query, write to me. At your request, I will be very happy to publish your article anonymously. I have heard rumours that some members feel unable to write in because they do not have disk drives or a printer. Please, please, please send the item to me, written in long hand if necessary, I will type it into the Newsletter.

Because of the multiplicity of DOS's and disk formats, I would ask that you give me some idea of the DOS and disk format when sending in disks, also the title of the file that I should be looking for. I will copy over that file to my disk and send your disk back by return, if an addressed label is included. Return postage will be paid for by NATGUG. Now having said all that, is there still a reason for anybody not submitting an article to the Newsletter? Please let your Editor know.

I have just looked at Geof's first editorial, that ran into two full pages. It is now the 21st March, I have no articles for the Newsletter, except for three members adverts, so it may be that I will have to fill a newsletter myself. Geof reported in his first paragraph that he had heard from a member who was not going to renew his membership. Today I heard from a member to say he would give it a further try, I do hope he stays, including the other few who were feeling a bit desperate.

By the time you receive this you should have received another Newsletter, which at this moment is at the printers produced under Geof's editorship.

One item of change that was proposed and passed at the A.G.M. is that the membership subscription will be an annual one, payable BY, (not on or after) the 1st of January each year. This, because a number of members have commented that they have difficulty remembering when

their subscriptions are due. Any extra donation will be gladly received by the Treasurer at any time. It is in the hands of your committee to determine the amount payable for membership, which at the moment is £12.00, we see no reason for any increase. (Did I not hear anybody give a cheer ?). Included with this is a decision to start 1988 with Volume 10, Issue 1. Therefore Volume 9 will only have 6 issues.

Can I now take a moment to update some items which appeared in previous Newsletters. Some of you will realize that these are for an item submitted by Ken Arntsen, I have spoken to Ken, and now realize why they, seemed out of context when I read them, I can assure all readers that this was not Ken's fault.

"Northern Bytes" is now being published by Charley Butler. I recommend this magazine to all TRS-80 users. The easiest way to subscribe, is to write to:- The Alternate Source Information Outlet, 704 North Pennsylvania Avenue, Lansing, Michigan. 48906-5319. Giving your Mastercard (Access) or Visa Card (Barclaycard) number and expiry date. "Northern Bytes" is sent out on an irregular basis (when they have filled enough pages, the last issue had 48 close typed A4 pages), and is packed with information. They do operate a To-Be-Invoiced policy for those not having charge cards. Price is \$4.00 + about \$2.00 air-mail postage each issue (about £4.00), your charge card is only debited when they send out an issue.

Along with Ken, I can also recommend "The Misosys Quarterly". To receive this publication, again using a chargecard is the easiest, write to:- Misosys, Inc. PO Box 239, Sterling, VA 22170-0238. Annual Subscriptions, to include postage to the U.K. is \$35.00 (now about £22.00) for 4 issues. The first two issues both had 100 pages. They have a "significant" product offer in each issue available only to subscribers, which should cover the cost of subscribing.

Both LS-DOS 6:3 and LDOS 5:3 has been released. LS-DOS 6:3 is already at version "J". Roy Soltoff of Misosys, has stated that he would only release LDOS 5:3 for the Model I, when he has 1000 orders for that version. (For more on this see, "The Misosys Quarterly", Vol. 1, Issue III). Also released is an LDOS 5:3 Model IV Software Interface Kit. Simply put, this is for a Model IV in Model III mode

and includes a driver to enable all the keys, a CMD utility to switch away from the Model III ROM to a Model III RAM (but with no cassette function) and includes a RAM disk for a 128K machine.

To answer a question that I have seen in the Newsletter, we now have about 180 members. How about each one of us recruiting at least one more member this year? (See enclosed membership forms)

For those who were trying to tell me a long time ago that the Model IV was dead, it is reported that Tandy sold about 10,000 Model IV's last year. (Oz only got half of that commission as best sales agent for the year). Thanks for taking time to read this, best regards, Ed.

Press Release from Tandy:- "Tandy says that recent figures confirm the company's claim to be the leading manufacturer of compatible micros in the US. Said Ted Russell, director of Tandy Computer Division in the UK: "Were glad to be able to prove to the world just how strong we are in the PC Market. We have the sales volume to influence the way the PC market develops."

Sec's Notes  
(nee ? Oggy, Oggy, Oggy)

First the apologies. In the rush to mail out the February/March Newsletter replies to some Members' queries were hastily scribbled on odd scraps of paper - unprofessional but, in the circumstances, effective! Well, we can only get better!

Several Members have asked about backnumbers - copies of all are available and are detailed on the enclosed subscription forms. There were also several requests for an index to our past issues - has anyone maintained an up to date listing that could be made available? I'm sure that someone has, and we look forward to hearing from you.

Paid-up membership has sunk to an all time low, but if the enthusiasm of your new Committee counts for anything, then NATGUG will soon be restored to its former glory. They can't do it all alone though, and that is why you have TWO registration forms - one for yourself, and one for you to personally recruit a new member with. Membership is spread across many machine types now, with several Amstrad 1512's making their presence known, together with many other MS-DOS types. The Model I's are still very strong (I use one myself every day) and the variations on the Model 4 theme seem endless - hi-res, hard disk, 256k memory, etc. Model III's are surprisingly few especially compared to that pioneering Model I - are we getting through to the new owner of these second-hand machines? Adverts, at a fantastically high cost, have been placed in the computer press but now we want to try the most effective form of advertising known - it is called word-of-mouth, and it relies on YOU telling your contacts about NATGUG (and getting these forms filled in!).

The club did once have most of the freshly-sought member information, but with the advent of the Data Protection Act the database was unfortunately erased. We now know that the Act is not overly concerned with Club records, and we are anxious to restore our database for the benefit of all Members. (We have registered for the purposes of the D.P.Act).

I did refer above to "paid-up" members. In our affluent past, a few Complimentary Issues of NATGUG News were distributed. (Since membership of NATGUG is by subscription to the magazine, then by definition the recipients of these complimentary issues cannot be regarded as members). This issue of the magazine includes the very last of those freebies and if you were one of the lucky few then may we invite you to now take out a subscription? Just for the record, ALL the committee members have paid the standard subscription.

Before I forget, please take a pen and change the issue reference on the last magazine from Volume 8 Issue 2/3 to Volume 8 Issue 8/9 - that's something else that we'll get right in future!

If we issue a disclaimer of responsibility for any inaccuracies contained within Members letters/articles, will that encourage any more contributions? Anyway, the disclaimer is hereby issued!

The back cover of the magazine is being reserved for FREE advertising of local groups & national meetings etc., so please send your details to Gordon for inclusion in the next issue.

Bulletin Boards. Do YOU want to access a NATGUG bulletin board? Would you rather use Prestel or the Blandford Board? What would you use it for? More importantly, will you please write in with your own answers to these questions? (to the Secretary please, \*\*Ed). The Group does have equipment, but in single density mode; we need to know Members requirements to establish whether or not we invest in re-furbishing this old asset, currently nurtured by Mac Randle. Incidentally, Mac wants to know if anyone out there ever got Dotwriter up and running on a Lineprinter VIII - ring him on 0926 640078.

The Committee is concerned that although the AGM was well attended compared with previous years, those present represented less than one-third of total membership. With this very much in mind, proxy voting will be introduced for the 1987 AGM to be held in March 1988.

I mentioned Model I's earlier; I've had two requests this week for help in tracking down expansion interfaces and it occurred to me that many 'new' owners of these machines probably wouldn't know about the hassle that many of us had when we first went 'double-density'! As I recall, there were three makes of doubler and unfortunate experiences led us to the conclusion that the Tandy one should be avoided at all cost! Anyway, with all these new oldies about, maybe members would like to advertise (free) their redundant software and hardware?

Please, someone, give some serious thought to that Index request. My next project is to get the software library lists up to date - watch this space for announcements!

That concludes this first issue of Sex Notes; I suppose that really I should have commented on the new IBM PC's. I did consider it, but came to the conclusion that Big Blue had already said it all anyway!

Happy Computing!!

MODEL 1/III, SOFTWARE LIBRARY (Leighton Davies)Notes on using the Library.

1. All programs are supplied free to members.
2. This Library contains Model I programs only.
3. Library system is 48K, twin 35 track, S/S S/D, TRSDOS 2:3 & NEWDOS 2:1, and of course level 2.
4. Requests for programs must be sent to the address below.
5. Tape. It is suggested that C-60 tapes be used for requests as these will hold approx. 95K bytes. It's also cheaper than several C-10 or C-20's. Programs will be dumped twice unless one dump is specifically requested.
6. Disk. If single drive, include a minimum operating system, otherwise format only please.
7. I strongly recommend you use strong, (Jiffy type) padded bags, especially with cassettes. Do not send the plastic cases as they are very fragile.
8. Include a stiffener when sending disks, say a 5 1/4" square sheet of hardboard (to stop the postle folding your disks).
9. Finally, before sealing your bags, weigh it, and insert sufficient stamps for return postage, don't forget your list and return address !

Many thanks to all those donors to the Library, too numerous to mention, keep it up !!! Donations means programs by the way !

Library Facilities.

Other facilities available for members include the loan of the TANDY Editor/Assembler Package as below:-

Disk One - Editor/Assembler, LINK 80, Library (FORLIB)

DISK TWO - MACRO 80, EDIT 80, CREF 80.

These are supplied with user manuals only, the Z80 Instruction set as supplied is only sent when specifically requested due to it's weight, and , usually, serious programmers have the basic Editor/Assembler package which has the Instruction set included.

A Technical Reference Handbook is also available on loan, this is the official TANDY Cat. No. 26-2103 Handbook.

Advice is also available as regards fitting of lower-case to Model I Keyboards as per the ELECTRIC PENCIL program. A modification service is also available if the person concerned has no technical expertise.

If any further gen. is required please phone the number below, BEWARE THE ROBOPHONE).

The address for all Model I/III Library requests:-

The TRS-80 Model I/III Librarian, Glamor, Brynna, Pencoed,  
Bridgend, Mid-Glamorgan. CF35 6PD

#### MODEL 4 Library (Mike Gordon-Saker)

As a result of Swindon, I am again offering to continue as M4 Librarian (Total programs to date 4 - 3 being for HI-res).

Hopefully we (that is the club) can build up a large collection of programs such as is available for the MI & MIII, but this will depend as always upon the members. The usual rules apply no programs from mags,etc. (Because of copyright infringement). It will be helpful if programs are self-documenting or are accompanied with a text file.

It was suggested by a couple of members that a Basic Function Library would be useful, so anyone with FN's send them in (Don't be bashful about them), there are many ways to achieve the same result, and hopefully a good robust set can be obtained.

FORMATS: Model 4 TRSDOS version 6:xx only, 40/80tks, sides, S/D Density.

DISK WILL BE RETURNED IF ACCOMPANIED BY RETURN POSTAGE.

NOTE\*. As I've now got a Job I'll only be at home at the weekends for the next couple of months, therefore I'll only be able to deal with queries at the weekends.

ADDRESS:- Mike Gordon-Saker, 'Uplands', St.Lawrence Drive,  
Cringleford, Norwich, NR4 7RZ. Tel: (0603) 501072.

(A listing of the Model 1/III Library programs runs to 22 pages. Our thanks to both Leighton and Mike for continuing to run the Libraries. Ed \*\* )

#### SWINDON - MARCH 1987

The AGM was only a small part of the weekend event, which really was good - I am still surprised by the number of members who arrived so early on the Friday, even though the first scheduled talk wasn't until 9.30pm. This year saw more than ever before, with over two dozen of us having lunch in the pub! The hotel staff had the systems room laid out for us, and provided extra mains leads - which were very quickly fully utilised!

Of course, this was seen to be the first chance to exhibit the Amstrad 1512, and some half-dozen made an appearance; there were a couple of 3000's and a few 1000's, plus those two weirdo's of Peter Hall and Tony Endersby (their machines, not their bodies!). Quanta was also well represented and occupied more than half of the inner side of the room.

Talks started off with Roger Storrs demonstrating a simple application for dBase on the Model 4. Carl deferred his planned Mandlebrots until the following afternoon, when he and Simon did manage to produce some fairly marvellous graphics. Unfortunately I don't know what else happened on the Friday night as I retired early, around 1.30am, leaving about 30 fanatics slaving over their keyboards.

After a jolly good breakfast I returned to the Systems Room on Saturday morning at about 9.00. It seemed that only two had stayed up the whole night! Laurie Shields set up and gave the Multi-User demonstration, hanging two 4P's on to a Model 16. Laurie then went into the Stratton Suite to give a talk on how he felt that Model 4 users should be directing themselves - communications, data sharing, multi-user, etc. When you listen to Laurie then you certainly don't feel that a Model 4 is an obsolete machine.

After lunch we had several sessions. There was an extremely good demonstration of the 1 megabyte board for the Model 1 (and probably any other Z80 computer); there was a comparison of various DOS's including CP/M, MS-DOS, Xenix, etc, whilst Leon Heller showed off his latest idea - the transputer.

The machine code masochists had their moments, with Laurie talking about the CP/M environment and Paul Ostwind doing likewise for the MS-DOS users.

Geof Smith gave a review of a word processor package for MS-DOS, WORD. Quite a change for our Dr Scripsit!

James Foster was pressed into relating his own experiences in computerizing his business accounting system, whilst Michael Coombs gave a very impressive demonstration of a digitiser in live action. Derrick Rowe put in a very welcome appearance, and was prevailed upon to talk on Quick Basic. The day's formal schedule came to an end with Paul Ostwind and Fantasy.

Apart from the two AGM's, we had only one scheduled talk on Sunday - Mr. Wraight, on the subject of C. Now if nothing else, we learnt the benefits of having professional lecturers. I personally picked up more in thirty minutes here than I have in a year of reading books and

articles, and I really cursed the enforced ending of the talk to allow the AGM to commence. The GOOD NEWS is that Mr. Wraight will be back in October - watch this space for details.

The following is copied from an output by LSI:

ANTI-PIRACY PROTECTION SCHEME ON LS-DOS 6:3. You are right to assume that the protection scheme is very sophisticated, it cannot even be found using any conventional software technique. LSI spent much time and effort in the design and testing of this protection system and we can assure you that: No matter what happens, no legitimate users will ever lose data or have any problem with this protection system - Pirates or users who violate our license agreement WILL have trouble with the system.

### PASCAL

(In the following article read ` for < ; `` for > ; ¢ for { & ¤ for } )

Turbo Sound a sound procedure for CP/M Turbo Pascal on the TANDY Model IV ..... By John Butcher.

I can not claim full credit for this as it is a direct translation of Robert Anderson's article Sounds Incredible in Feb.86 80Micro page 60 and gives the same results.

I saved it as SOUND.INC to be included in the demo program.

```

procedure sound(tone,durat:integer);
var
    loop,times,time:integer;
begin
    loop:=durat * (2000 div tone);
    if loop > 2000
    then loop:=0;
    for times:= 1 to loop do
begin
    port[$90]:=$00;           § change $90 to $FF for cassette port 2
    for times:= 1 to loop do
        begin
            end;
        port[$90]:=$01;       § change $90 to $FF for cassette port 2
        end;
    end;
end;

```

The demo program is again a translation of the MUSIC/BAS which was included in the article. Except use Ctrl A to exit.

```

program tune;
var
    durat,tone:integer;
    ch:char;
§$sound.inc2
begin
    write('Enter duration 1 to 5 ');
    readln(durat);
    write('press ^A to stop any other key for NOTE ');
    repeat
        read(kbd,ch);
        tone:=integer(ch);
        sound(tone,durat);
    until tone = 01
end.

```

ç Turbo Pascal trig.inc Trig. functions to extend the three which are included in Turbo Pascal. By John Butcher. ½

ç=====½

function Sgn(x:real):real; ç used by some of the functions ½

begin

    sgn:=1;

    if x<0 then sgn:=-1;

    if X=0 then sgn:=0;

end;

ç=====½

function Tan(rad:real):real; ç tangent ½

begin

    tan:=sin(rad)/cos(rad);

end;

ç=====½

function Cot(rad:real):real; ç cotangent ½

begin

    cot:=1/tan(rad);

end;

ç=====½

function Sec(rad:real):real; ç secant ½

begin

    sec:=1/cos(rad);

end;

ç=====½

function Csc(rad:real):real; ç cosecant ½

begin

    csc:=1/sin(rad);

end;

ç=====½

function Sinh(rad:real):real; ç hyperbolic sine ½

begin

    sinh:=(exp(rad)-exp(-rad))/2;

end;

ç=====½

function Cosh(rad:real):real; ç hyperbolic cosine ½

begin

    cosh:=(exp(rad)+exp(-rad))/2;

end;

ç=====½

```

function Tanh(rad:real):real; ζ hyperbolic tangent ½
begin
    tanh:=-exp(-rad)/(exp(rad)+exp(-rad))*2+1;
end;
ζ=====¾
function Sech(rad:real):real; ζ hyperbolic secant ½
begin
    sech:=2/(exp(rad)+exp(-rad));
end;
ζ=====¾
function Csch(rad:real):real; ζ hyperbolic cosecant ½
begin
    csch:=2/(exp(rad)-exp(-rad));
end;
ζ=====¾
function Coth(rad:real):real; ζ hyperbolic cotangent ½
begin
    coth:=-exp(-rad)/(exp(rad)-exp(-rad))*2+1;
end;
ζ=====¾
function ArcSin(x:real):real; ζ inverse sine ¾
begin
    arcsin:=arctan(x/sqrt(-x*x+1));
end;
ζ=====¾
function ArcCos(x:real):real; ζ inverse cosine ¾
begin
    arccos:=-arctan(x/sqrt(-x*x+1))+1.5708;
end;
ζ=====¾
function arccot(rad:real):real; ζ inverse cotangent ½
begin
    arccot:=-arctan(rad)+1.5708;
end;
ζ=====¾
function arccsc(rad:real):real; ζ inverse cosecant ½
begin
    arccsc:=arctan(1/sqrt(rad*rad-1))+(sgn(rad)-1)*1.5708;
end;
ζ=====¾

```

```

function arcsec(rad:real):real; { inverse secant }
begin
    arcsec:=arctan(sqrt(rad*rad-1))+(sgn(rad)-1)*1.5708;
end;
{=====}
function argtanh(rad:real):real; { inverse hyperbolic tangent }
begin
    argtanh:=ln((1+rad)/(1-rad))/2;
end;
{=====}
function argsinh(rad:real):real; { inverse hyperbolic sine }
begin
    argsinh:=ln(rad+sqrt(rad*rad+1));
end;
{=====}
function argcosh(rad:real):real; { inverse hyperbolic cosine }
begin
    argcosh:=ln(rad+sqrt(rad*rad-1));
end;
{=====}
function argcsch(rad:real):real; { inverse hyperbolic cosecant }
begin
    argcsch:=ln((sgn(rad)*sqrt(rad*rad+1)+1)/rad);
end;
{=====}
function argcoth(rad:real):real; { inverse hyperbolic cotangent }
begin
    argcoth:=ln((rad+1)/(rad-1))/2;
end;
{=====}
function argsech(rad:real):real; { inverse hyperbolic cosecant }
begin
    argsech:=ln((sqrt(-rad*rad+1)+1)/rad);
end;
{=====}
function rad(deg:real):real; { degrees to radians }
begin
    rad:=deg*0.01745329;
end;
{=====}

```

```

function deg(rad:real):real; { radians to degrees }
begin
    deg:=rad*57.29578;
end;
{=====}

```

### ADVERTS

#### Software for Sale.

##### Model I cassette - FREE to first taker (S.A.E. please)

Lower case driver  
 Prosoft Faster (Mod I/III)  
 T-BUG Z80 Monitor/Debugger Aid (43p stamp)  
 Microsoft Editor Assembler Plus (60p stamp)  
 Adventure International Chess  
 501 UP (darts game)

##### Model I Disk

Compak - BASIC utilities ..... £4.00  
 GEAP and DOTWRITER ..... £12.00 (graphic font generator)  
 JUMBO - flight simulator ..... £4.00  
 Premier Toolkit ..... £2.00

##### Model III

ACCEL 4 (I/III) - BASIC compiler ..... £7.00  
 SERIES 1 Editor Assembler ..... £7.00 \*  
 Business Analysis Pack (Tandy) ..... £8.00 \*  
 REMASSEM - Assembly Language Tutor £8.00 \* (disk and audio cassettes)  
 VisiCalc ..... £12.00 \*  
 SUPERKEYS ..... £3.00  
 COBOL ..... £20.00 \*  
 CORPLAN (cassette) ..... £8.00 \*

Model IV

BASCOM - BASIC compiler ..... £20.00 \*  
 Tandy Hi-Res Computer Graphics ..... £15.00 \*  
 Full Screen Editor ..... £5.00  
 PFS File - database ..... £25.00 \*  
 PFS Report - database report

Amstrad CPC464

AMS - FORTH 1.1 .....£8.00  
 HI-SOFT DEVPAK Editor Assembler ..... £8.00  
 HI-SOFT C .....£10.00 \*

Software marked \* £2.00 postage, the rest 50p

Books for Sale

The custom TRS-80 & Other Mysteries ..... £4.00  
 Programming Techniques - Level II ..... £2.00 \*  
 Level II ROM Reference Manual - Paay .... £4.00 \*  
 TRS-80 Assembly Language Subroutines .... £4.00  
 TRS-80 Assembly Language Programming .... £2.00 \*  
 More TRS-80 Assembly Language Programming £2.00  
 TRS-80 Graphics ..... £3.00  
 The Z80 Microcomputer Handbook ..... £2.00  
 The Basic Handbook - David Lien ..... £3.00  
 Data File Programming in BASIC ..... £3.00  
 BASIC Programming - Kemeny & Kurtz ..... £4.00  
 Personal Computing - Daniel McGlynn ..... £3.00  
 Using CP/M - a self teaching guide ..... £3.00 \*

Books marked \* 60p postage, the rest £1.50

For all above contact:- .. I. H. Wright, 17 Greygoran, Sauchie,  
 Clacks., FK10 3ET. Tele:- (0259) 213515

The Rev. Leslie E. Goulden who uses a Tandy Model 11, and also a Tandy Color Computer No. 1, would like to have contact with other users of these machines. Details from:-

61, Skellingthorpe Road, Lincoln, LN6 7QT. Tele: (0522) 680 122  
Prestel No. 0522680122

-----

A Mr. John Reid, of 25, Manor Road, Solihull, West Midlands wishes to purchase a TRS-80 Model I Level II computer with 48K memory.

-----

For Sale:- 48K Model I. Percom double density, RSR 232, Tandy green screen monitor, two disk drives, ZEN, Finplan and other software, £150.00. Extra 16K Keyboard £15.00. Extra 35 track drive £15.00, all postage extra. Contact:

Mr. Arnold Handley, Stanton House, West Bergholt, Colchester. CO6 3JS.  
Tele: (0206) 241725

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For Sale:- Tandy Model IV 128K, twin disk drives, Gemini Printer and some software.... £750.00. Contact:

Mr. Lloyd Dobson, Six Ways NCTA, 21 Clifton Road, Aston, B6 5DB.  
Tele: 021-747 9872.

For the following please contact:- Mr. H. J. Stovold, "Mayude",  
Valley Road, Swanage, Dorset, BH19 3DZ.

#### HARDWARE

EG3003 Video Genie, Inc. Sound and external Hi-Res. unit. EG100 B&W monitor. EG3014 Expander Box (36K). 2 off EG300 40T, SS/SD Disk Drives. Alpha-80 DM Printer. Inmac MiniModem (300/300)

#### SOFTWARE

LDOS 5:1:3. SmaILDOS. LED Line Editor. FED File Editor. LDOS Toolbox. SuperUtility + . HyperCross. BBC Disk. LMODEM 80. AJEDIT. SuperSCRIPSIT. PowerDraw. Animation. Datawriter. DBMS. PageFile. Infoscan. SIR. Quikpro + . VisiCalc. Graphit. Critical Path. Graph Plotter. Basic (extended). Pascal. QASM. Pilot. Family Tree.

The above for an all-in price of £500.00. All applications are complete with manuals, and the hardware is in working order with all appropriate cabling and connectors. Also included is an assortment of games on disk and tape, and several tapes of Kansas City utility software (debuggers, etc.), and some books on the Video Genie and TRS-80 (probably 20-25 in number).

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As, Sam, Sara, Jackie or Linda were not available, we then reserved this space for YOUR article, which, unfortunately did not arrive in time.

(Will they turn up next time just for Sex Notes ?)

LOCAL CLUB NEWS

BOURNEMOUTH

Meets First and Third WEDNESDAY at Kinson Community Centre at 7.30pm.  
Contact: Carl Rabe, (0202) 730617

CHELMSFORD

Meets first WEDNESDAY of each month at 7.30pm.  
Contact: Richard Creak, Woodcote, 59D Little Baddow Road, Danbury,  
Chelmsford, CM3 4NT. (0245) 413725

MILTON KEYNES

Meets alternate Sundays, October to March.  
Contact: Brian Pain, (0908) 564271

SUDBURY

Meets every second Wednesday of the month at 3a Gainsborough Street.  
Contact: John Kilpatrick, (0787) 79504.

SWINDON WEEKEND

The next meeting is scheduled for October 16th-18th - make a note,

NOW!

Contact David Washford, (0373) 72739.

If YOUR club isn't mentioned above then it's your fault, not ours. For  
your FREE advert, WRITE with details to:- Gordon Collins, Editor.