

Common Modules from Marconi Avionics.

With the placing of a contract for full development the Ministry of Defence (Procurems) placed with Marconi Avionics Limited, is for full placed with Marconi Avionics Limited, is for full development of standard building brick's suitable for production in large quantities. For here, production in large quantities, to full development of standard building brick's suitable for production in large quantities. For here, made to meet the requirements of all three buy sublink, day and night. It is anticipated that mark housands of modules will be produce. Thereal Imaging Common Modules are being developed and produced by a team of Britis surveilance Division of Marconi Avionics Limited assidon, beicester, to produce indirect-view equip ment lin which the image is processed electronication

Demand for thermal imaging systems is expected to be considerable. By standardizing on the use of momon 'bricks' or modules in these systems, the advantages of large-scale production can be obtained and the number of different types of equip ment, held in armed services' inventories, can be reduced. The Thermal Imaging Common Modules programme thus offers obvious cost advantages and simpler logistics support. The Modules comprises canner assemblies, including detector, polygon mator and frame motor modules, and a range of electronic modules for pre-anglification, buffering, signal processing, gain control and clamping, wave form generation for infar-red sensing and for television display. Lectronic storage and power supplic systems. Rank Taylor Hoboson is design authority for indirect-view scanners and for the associated electronic control modules.

NEW 100 MILLION DOLLAR CONTRACT FOR MARCONI AVIONICS

World's most advanced head-up displays in USAF's LANTIRN programme for F-16 and A-10 aircraft.

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current F-16 HUD programme, in accordance v the co-production agreement between countries involved. This participation, by Konst Vapenfabrikk of Norway and Oldelft of Netherlands, in a strong international team, car regarded as significant in the continuing progr towards NATO equipment standardization.





- wei Violinromanzen another favourit something entirely different, for variety
- eth Century Dictionary -on to satisfy my obse of crosswords - to keep

-und

Applications are invited for the Fourth Annual Award of the HASKETT TROPHY FOR ENGINEERING

- which is judged for the best engineering achievement year that is likely to lead to an improved product. The competition is open to all engineers emplo Marconi Avionics Limited a Rochestru put to and in Project Manager or equivalent grade. It is open to dividual entry or team entry.

- mplate Division, he competition will be judged by a panel of five engli within and outside the Company. Innovation, e ost effectiveness will be taken into account. written paper must be submitted to support the i
- urther information about the competition may be ined from J.M. Neate, Personnel Department. Entries Id be made in the first instance through the Divisional ager of the appropriate Division and should reach the onnel Department by 30 November 1000 to the

SUGGESTION SCHEME

There appears to be a continuing submission of items for con-sideration made to the committee. Although some ideas do not utually for any award there are, nevertheless, a proportion which offer distinct possibilities and these receive norminal awards, whils the full impose of adopting the submitted lides is analysed and the full imposed. At the meeting held on 31 July, 1980, the following nominal

Mr. R.D. Kingsford ADD, for a suggestion concerning the plugging of plated through holes in printed circuit boards. Mr. J.C. Hobbs FCD, concerning polyurethaning between c ectors of multi-layer boards used on Jaguar MRCA contracts.

iome 10 suggestions are at present in the pipe n and evaluation.

We deeply regret to record the death of Peter Sidney Martin, suddenly, after a short illness at the age of 42. Peter, a live wire and active in many agence of life, joined the Company in November 1964 as a trainee vireman. In 1965 he vas agenoind to MAC as a vireman and still remained in the occupation after the merger in 1970. Prometed to Leading Hand in September 1978 and Foreman in FCD in January 1979. Our sympathy and conditiones on out to his videov and

Our sympathy and condolences go out to his with mbers of his family.

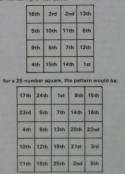
TO BREAK BOREDOM

How did you get on with the magic squares we posed he last issue?

As promised, here are the solution

- This one is easy because the bottom line is complete. It adds up to 62 which means that all the other lines must add up to 62, the missing figures, starting from the top line and working down are: 20, 12 and 14.
- B' The 'Magic' total is 150, so top): 32, 37, 36 and 33.
- 'C' The columns total 50 and the missing numbers top): 6,9,10 and 5.

To construct a 16-number magic square, choose any sequence of mbers, put the lowest in the bottom right-hand square, then follow order of numbering set out below.



Marriages



ton, an Inspector of MAS an, of ATE Library, at St.

ith the Company for five years



ENGAGEMENTS

The following engagements are an coming marriages: Martin Lovage, a Planner within FCD,

on 26 July. Ann Golding of ATE, a train



litchen Ka PPS HOME-MADE PORK PIE

The most famous pork pies come from Melton Mowbray Leicestershire. Traditionally they are made from chunky at, with hard crust pastry.

, with hand cruit pairy, within the floor of pork the floor it exapoon sait it egy yolk Goz land X teappoon gelatine sait, peppor and devenne soit. Chop the pork meat into on sait, egy yolk and land, blendi velit. Use 2/3 of the pastry to 1 loose-bottomed cake an input

a pie lid from the remainder of crust, lea

where the part of the part, particular of eagler 450° F (aggs mark S) for 20 minutes, then for a 2 hours at 325 (gas mark 3). while strain the strock, reduce it to about % plnt kan with gelatine dissolved in hot water. Pour the rough the hole in the pie Idi. The stock will set to a jelly pie has cooled.

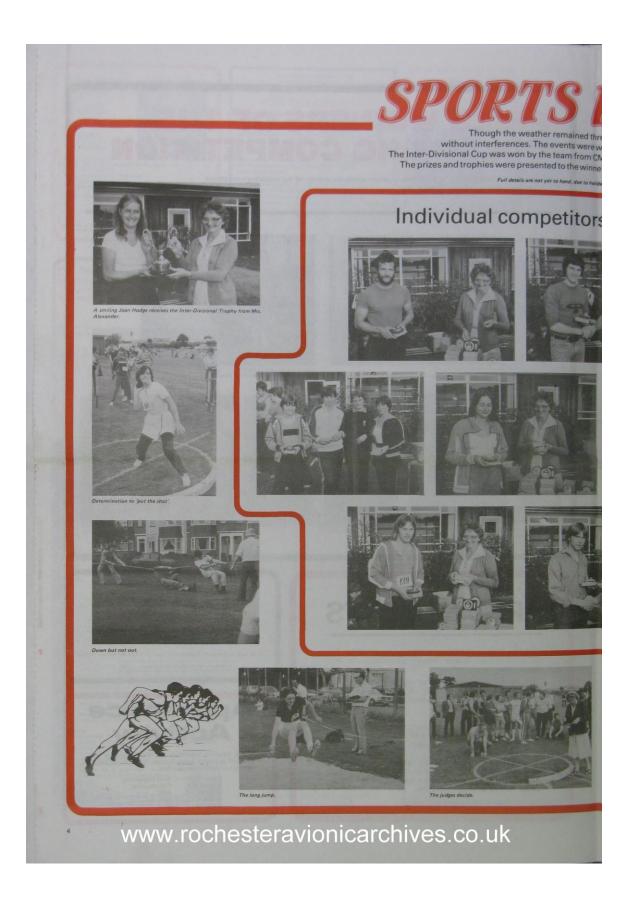
ISTMAS CAKE

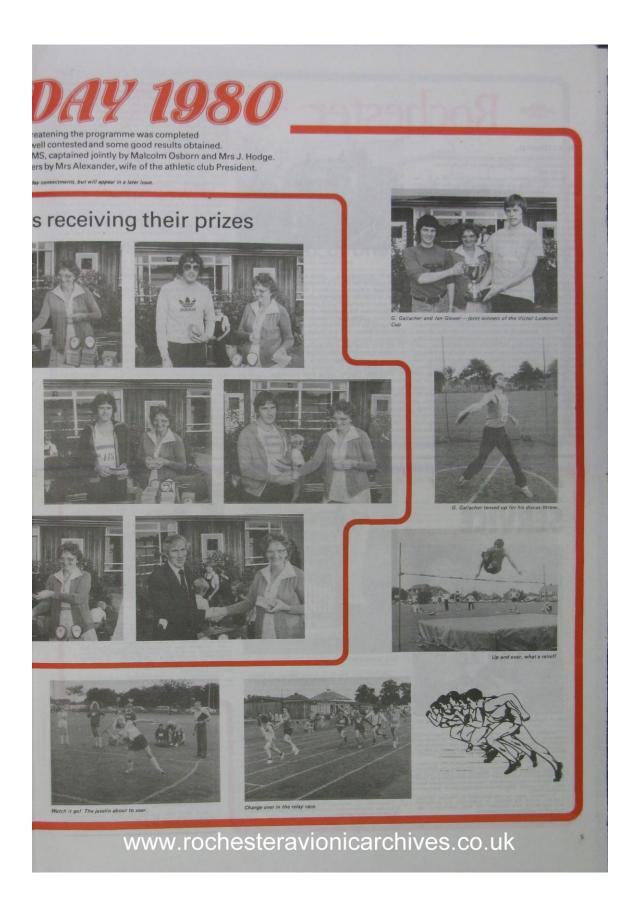
low is the time to be thinking of Christmas festivitie fare. The recipe that we have printed below is an old shire recipe, which can be thoroughly recommended The four if plan be throughly recommended baking powder) Wib memori or orange peel Wib magarine Tho caster sugar Zib currants, or mixed fruit. Wib atmonds 1 gened nutring entron and almond essence to taste

6 fresh eggs

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Rochester

THE CATHEDRAL.

"And Cathedral fanes majestic, monuments of human skill, And dismantled piles monastic, where the beating heart grows still." Rochester Cathedral dates from the year 600 A D.

And Cathedral fines majoritic, monuments of human skill, argenting.



EASTGATE HOUSE. (From Poulion's Artistic Series.)

Description of the second seco

connection with Watis' Charities, the following parti regarding their scope and administration will prove of g interest. The statis is managed by eighteen trustees, and by the Charity Commissioners, and it is the daty and pri of these gentement ocarry out the wishes of the found addition to maintaining the *Travelers' Rex*, which bei uated on Watling Street—the old Roman road—had i more claimant upon its bounty than could be accommon the Charity supports an Almshouse for ten poor women a poor men.

the Charity supports an Altrahouse for ten poor women and t poor men. EASTGATE HOUSE, which stands on the exact site the ancient East Gate, is otherwise notable from its fine carv-oak ceiling and the reference made to it by Dickens in "Eds prood" as the Nun's House, the Academy of Miss Twinkleto I is now used as a museum. RESTORATION HOUSE, is a quaint pictures residence, and is specially noted as being the Satir Hou-referred to by Dickens in Great Expectations', but the actt house in which Queern Einzabeth was entertained for five day in 1573, by Richard Watts, was situated at Boley Hill near i Gastle, and overlooking the river. On the fifth day of t Queen's sojourn she seems to have uttered the word 'satir' an bird fout significant indication of her frame of mind, and memory of the event this very ambiguous title was attached the house.

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AGNET IOLIDAY RESENTATION									
Come along	at 8-00pm								
26 SEPTEMBER 1980 NARCONI SPACE AND DEFENCE SYSTEMS LTD Hilend by Dunfermine, Fife	14 OCTOBER 1980 MARCONI SPORTS AND SOCIAL CLUB, Dever Hall, Queers Road Famboroup, Hants.	Y at one of tl 21 OCTOBER 1980 MAGNET SPORTS AND SOCIAL CLUB Devikin Avenue, Witton, Birmingham.	29 OCTOBER 1980 AEI CABLES LTD SPORTS AND SOCIAL CUB Kings Farm Estate, Gravesend, Kent						
26 SEPTEMBER 1980 MARCONI SPACE AND DEFENCE SYSTEMS LTD	14 OCTOBER 1980 MARCONI SPORTS AND SOCIAL CLUB, Dever Hall Queen Read	Y at one of th 21 OCTOBER 1980 MAGNET SPORTS AND SOCIAL CLUB Deviki Avenue, Witton,	29 OCTOBER 1980 AEI CABLES LTD SPORTS AND SOCIAL CLUB						
and wina FF 26 SEPTEMBER 1980 MARCONI SPACE AND DEFENCE SYSTEMS LTD Hillend, by Dundremline, Fife 6 OCTOBER 1980 RUSTON CLUB	ACCODER 1980 MARCONI SPORTS AND SOCIAL CLUB, Dever Hall Queen Road Farnborough, Hants. 15 OCTOBER 1980 GEC SPORTS AND SOCIAL CLUB 122 Preton Road, Wembley.	Y at one of the 21 OCTOBER 1980 MAGNET SPORTS AND SOCIAL CLUB Daykin Awnue, Witton, Birmingham. 22 OCTOBER 1980 We at AVERY SPORTS AND SOCIAL CLUB	29 OCTOBER 1980 AEI CABLES LTD SPORTS AND SOCIAL CLUB Kings Farm Estate, Gravesend, Kent 30 OCTOBER 1980 MARCONI ATHLETIC AND SOCIAL CLUB						

LEARNING A FOREIGN LANGUAGE



How many people I wonder, who, after returning from the holidays abroad this year, will express the desire to learn the languag of the country they have just visited? Judging by the ever increasi number of people who enrol in foreign language, course ever year, I would say guite a number. But I also wonder just how mar of them have any idea exactly what is involved in learning anoth

The fact that is all probability, more than 50% of all those who start out with such ferener tentusams will give up their studie where the end of the first year, is a clear indication that so man acopie embart, on this year worth-while verture completely up respared for the task abade of them. Let us examine briefly the ome of the possibilities open to the would be language studen I would any that there are four methods that the average person

First, and undoubtedly the best but most expensive way is to orgage a private tutor and to learn your chases language in the privacy of your own home. With this method, the student will immot certainly make very rapid progress: the course being anice made so to speak to his or her personal requirements and learning biblity: having the undivided attention of the tutor the student densities of the grapage. If the tutor be a close the best of the grapage, if the tutor be a close the result of the grapage. If the tutor be a close provide strain head were appreciated at the state of the strain strain head were appreciated at the state of the strain strain head were appreciated at the strain strain strain strain heads were so, with all these advertage begree from or newy early rapes, a pod working like fluency is enviraged. The main drawbacks in chosing the method are or close targets. New theolet, the anitor head of strain the individes of the language and considerably more at anyching like fluency is strain, especially if your interests lie in the more obscure or close languages. New theose, the amount of personal strention that can be given by a private teacher will lead to fairly rapid Beamination of the language and the beeffers game. uition in this area are about £5 per hour. It is probably true to say then, that this method will appe only to a minority of intending students, but its obvious advantag

Let us now consider the second method, the one that I ward personally recommend, as it is admirably valiable for the majori of papele whether they be approaching the subject for the fir time, or intend to improve the knowledge they already posses It is then, quite simply to go and enrol in one of the many langua courses held every war in the Adult Education Centres that exi in most towns here days. These courses exist in adminance and in the mast part are excellent in content, presentation and are ver good value for money. The student will learn a language tural from a teacher who is a foreign national with very high qualification this being a grate help in the early stage when difficulties us pronunciation will be a problem for some students, but by listeni carefully to the treacher, these problems can be quickly overcon and here again a good accent can be developed by most dedicati sudents. Learning a language tural

Its advantages is well as to statustings, to use students can support and incourage or ingrue laws in the students and students and support and incourage or themselves, thus guickly overcoming the nature advantation to begins experience at first. For the more advances touches, ample opportunities exist for the development of dicussion groups and here usually every student will be given the here. The main disadvantages are that a class can either process at a pace suitable to the isaming ability of the material alreade. The main disadvantages are that a class can either process at a pace suitable to the isaming ability of the advantage at a procession for the students who have the ability to back risks is pace. In a set of concentration and perhaps a loss of progress or, take is pace in a set of repetition and perhaps a loss of progress or, take is pace, in a set of comprehension to become thorous displantement and disinferentiat. The second the class and a thro willing to guick a course will achieve a merial and anyor willing to guick a course will achieve a sound working knowledg of their channel language, the ability to back and understand at a mades terel and, in all probability to read and understand at a group at evening classes is undoutbedly the most is and a mail group at evening classes is undoutbedly the most populone at present and can be highly recommended.

The third method I would like to introduce is possibly the besichoice for those people who prefer to study or work at home, an referring here to the "all-in-one package course" much in evidence these days and acquiring an increasing popularity that seems to be clearly alled to the growing proportion of people taking their holidays abroad. This type of course usually consists of a act to long playing records or tape casettes accompanied by two or them the orthogeneous setting the course usually consists of a set to any playing records or tape casettes accompanied by two or them the setting text books, one of which will contain all the material spaken in the recording, the others will probability be books supporting the recorded tessons, giving a brief insight to the grammatical structure of the anguage along with a more extensive vocabulary for the student who wishes to extend his knowledge beyond the scope of the ecorded material. These courses for the most part are divided up not some thirty to forty lessons for the most part are divided up and more revealeding advanced lessons later in the course. Once again there are advantages and disadvantages in this very popular of more revealed advantage that appeals to most people is that they can dickle for themselves exactly just when, and for now long, their study periods will be studied for bree, insomuch in the mood. Perhaps a vord of warning is called for here, insomuch metric to be picked up again. But those who have the delication and tencity to complete their course will no dotted in one ensures material limited. It is easy to see then that once the recorder material has been learned by heart, the course is virtually to get one foot on the first rung of a very tall ladder; heaveer, if they start people off on the read to real success then they are sold first and people.

Costs vary enormously and, as in everything, you only get vitar you pay for. At the top end of the scale, Linguaphone offer very comprehensive courses in all major European language, as well as some of the more remote Eastern European language, as well Polish for example is enjoying an increasing poor offer language students at poerior. Lotin, and even to the major offer languages, Chinese and Japanese perhaps evidence of both a growth in interest and the even shrinking world. At the other wind or the scale, the Reader's Digest Association offer excellent course, leading an languages for a fair more modest outlay. For these then who prefer to study at home alone, perhaps this method has its metha and it is true to say that many people who now have a good command of a language made their initial sturt in this way. The be continued

A tous ceux qui sont déjà étudiants de la langue française, que je vous rappette les monts de Victor Huyo, pris du quartième acts d'Hernani normalement explrimé en Latin. Ad augusta per angusta, sutrement dit en trançais: A des résultata magnifiques par des vois etroites.

Turn to page 12 for a transla

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Sp	\mathbf{O}	r'	4	5	-	2	m	000	-							
		7 6								T	3	1.	0			b round up
			-	-				4 30	6	1.		1	C			bround up
LAWN TENNIS																
The Elliott men's	team hav	e ma	de su	-	1 Dar	licinal	ing in								1	'65 CLUB
Medway Lawn Tennis	Loaque's	Divit	sion 1	I. for	the 1	981	eason.	GN						A]	In August the club was entertained by the Golden Oldies
as a result of their draw	vn game ar	gainst	Hob	ourn				CARO					1	E	A O	 a group of pensioners performing songs, gags, routines and sketches with an 'old tyme' flavour - after the completion of
Elliott can thank	Jim Cain	and	Kev	D T	ownir	10 10	their	1 all					F	TE	AL	sketches with an old tyme havour - after the completion of the business meeting.
success in winning all	their rut	bbers,	Thi	s dur	b hav	e bec	ome a	NA					H	2		Among the bingo winners were C. Divane, J. Mankelow and
top-class paring.								11 0					11	4		Mrs. Drew.
League tables								Ø					A			Members offered congratulations to those whose wedding
	Ladie	s Div	ision.	1					Divir	tion 3						anniversaries occured this month.
Chatham	P	W	D	L	F	A	Pts		Р	W	D	L	F	A	Pts	
Castle	10	10	0	0	72	18	20	Civil Service	9	8	0	1	63	17	16	Mr/-8-Mrs. John Symonds 32 years Mr, 8-Mrs. Jim Mankelow 38 years Mr, 8-Mrs. Arhur Hall 38 years Mr, 8-Mrs. Noel Drew 40 years Mr, 8-Mrs. George Burge 41 years
Rosedale	10	8	0	2	64	25	16	Winget	9	8	0	1	63	18	16	
Frindsbury	12	0	-	5	51	47	11	City II	9	3	0	6	27	53	6	
ELLIOTTS	12	0		0	46		13	ELLIOTTS II	7	1	2	4	19	44	4	
City	10	4	-	1	46	61	9	BP Kent	6	1	1	4	20	33	3	
Luton Church	10	3	1	10	31	58 77	0	Rosedale II	8	1	1	6	22	49	1	Mr. & Mrs. Cyril Chandler 41 years
				10	a.L	11			Divis	-						Mr. & Mrs. Cyril Skinner 42 years
	Mens	Divis	ion 1						DIVIS	ION 4	D	14		100	Pts	Mr. & Mrs. Harry Lower 52 years
	P	W	D	L	F	A	Pts	Frindsbury II	12	11	0	4	80	28	Pts 22	Mr. & Mrs. Ted Tarrant 55 years
Chatham	10	8	2	0	71	19	18	Castle III	12	10	-		88	19	21	
Castle	9	7	2	0	66	14	16	Civil Service II	11	5	-	E	41	58	11	
Hobourn	10	4	2	4	38	52	10	ELLIOTTS III	11	4	à	7	39	60	8	Syd and Cally Evans celebrated their golden wedding ann
Rosedale	8	3	1	4	30	42	7	Rosedale III	8	2	1	5		41	5	iversary (50 years) on the 9 August. As usual the members
	8	1		E	19	52	-		0	-		-			0	iversary too years) on the 3 August. As usual the members
ELLIOTTS							3	Frindsbury III	10			8	35	54		sang 'My old Dutch' (suitably adapted) and the President pre-

Marconi Avionics Sailing Club

he annual visit by Rochester sailors to the Marconi ing Club (MSC) took place on the weekend of 18-20 1980. The cruisers led by Jack Pateman CBE, President SC, in the Golden Hind 'Onenante', sailed through g winds to reach the Blackwater on Friday evening, olim Moulton in Macwester 'Centaurina' arrived early sturday morning. Le to Illness only three Rothester dinghies raced this but the oughts of sailing was high and exhibitantic

e to illness only three Rightester displies raped this but the quality of sailing was high and exhilarating, e first race started in confusion, due to the high winds he proximity of the start line to moored cruisers, irregroses (MSC Commodore) led the fleet throughout 420 followed by Alistair MacFadyean in a Fireball, ester's Gordon Belcher and Dave Jibb in Enterprises ed on the first lap though Gordon righted the boat to third, just beating John Witter (MSC) also in an orise.

wind had dropped a little for the second race, but The wind had stopped a little for the second race, but again Ron Greygoose got alwead at the start and won easily. This time Gordon Betcher kept the boat upright to finish second with Alistair MacFadyean third and M. Stuart (MSC) in a solo fourth. John Witter capsized and retired leaving Ron Greygoose as the only solitor to avoid the 'early bath'. The combination of strong winds and the chop



created by the wind against the tide had produced a very enjoyable days racing though that first place still eludes Rochester.

The visit coincided with MSCs annual barbecue and disco The visit coincided with MSCs annual barbecue and disco and the rain stopped to allow a pleasant evening enter-tainment. On Sunday the cruiser 'Centaurina' left through the intermittent aquals to end the weekend in best 1980's style, while 'Cenanthe' whose skipper was on holiday, enjoyed an extra day at Stansgate.





(3,2,3,3) ce, or merely lazy (9) ut anything (4) ng for legs, but not amstress (4) ns added