

MARCONI AVIONICS NEWS

House Journal of Marconi Avionics Limited

MOTTO FOR THE MONTH

"He that holds the ladle serves the soup how he likes"

John Curtis Sword presentation is an evening to remember

At a dinner, held on 3 September 1982, at Bentley Priory, the imposing war time headquarters of RAF Fighter Command, the magazine Aviation Week and Space Technology presented the much-valued John Curtis Sword to Peter Hearne, Director and General Manager of Marconi Avionics Limited.

The Sword, awarded annually by the magazine to "the individual adjudged to have made a significant contribution to Anglo-American aerospace" was presented by the Editor-in-Chief, William H Gregory, after a speech of welcome by the magazine's publisher, John W Patten.

The Sword, which is over 4 ft long, is retained for a whole year and arrangements are already being finalised to have it on display in the foyer at the Rochester Establishment. Peter Hearne also received a smaller replica which he will retain among his many other aviation souvenirs.

The presentation reception and dinner was an impressive occasion with over 100 distinguished guests from the world of aviation, including Mr Geoffrey Pattie MP, Under Secretary of State for Defence Procurement, Representing Marconi Avionics and supporting Mr Hearne were Mr Jack Pateman CBE, Managing Director, Mr Ron Howard, Director and General Manager, Professor John Shepherd, Technical Director, Mr Staff Ellis, Company Design Consultant, Mr Lloyd Flatt, the company's US representative and Mr Malcolm Moulton, Company Information Executive.

The formalities began with prayers, an "Invocation" by Lt Col James Somma, Command Chaplain to the US 3rd Air Force and, after the loyal toast "Her Majesty, Queen Elizabeth II and the President of the United States", a speech of welcome by Aviation Week's Publisher, John W Patten, and a speech in memory of John Curtis, which was given by Tim Brooke-Smith of Flight Refuelling Ltd (and ex Chief Test Pilot of Short Brothers at Rochester), the Sword was presented by William H Gregory, the magazine's Editor-in-Chief.

Peter Hearne in conversation with Air Chief Marshal Sir Douglas Lowe at the Bentley Priory reception.
Sir Douglas, whilst Controller Aircraft at the Ministry of Defence, visited Marconi Avionics Establishments on several occasions.



The Sword in the hands of Peter Hearne

COMPACT ALPHA

Flight Controls Division have provided to ATE Division an A310 Slats and Flaps Control Computer (SFCC) so that test programs can be prepared in readiness for the use of COMPACT Alpha on FCD's Production Line. The photograph shows Doug Webster (Production Manager, FCD) handing to Sue Marsh (Engineering Manager, ATE), the SFCC in front of FCD's COMPACT Alpha.

The SFCC on the Airbus Industries A310 and A300-600 medium haul aircraft is part of the Slats/Flaps Control System from Leibherr Aero Technik in West Germany for which FCD have already supplied some computers. A novel feature of the computer design is the use of dissimilar microprocessors for both control and monitoring in each computing channel. Both microprocessors' outputs must agree before a control movement is permitted. Either microprocessor is able to detect system failures. In addition to the control features the SFCC provides a comprehensive processor controlled BITE facility, control information to other aircraft systems and outputs to indicators, warning systems and for maintenance.

COMPACT Alpha ATE Division's functional ATE will be used to test production models of the Slats and Flaps Computer and the six individual PCBs incorporating microprocessors hybrid and analogue components and Power Supply Module, ie. both Line Replaceable Unit (LRU) and sub-assemblies.

The availability of the LRU at such an early stage in the project is a rare event in ATE Division's experience and illustrates the co-operation already established between the two Divisions in order to meet the 'in-service' date of the ATE. Test Program preparation is underway and it is planned to demonstrate the use of COMPACT Alpha in testing the Lane 1 module from the computer at the European Airlines Maintenance Committee meeting in November. COMPACT Alpha has a general purpose application through its microprocessors, digital/analogue functional test capability for LRU/PCBs.



Company computers join the sales drive

Marconi Avionics gets its first-ever comprehensive Product Guide

A team of specialists in information, publications and word processing has worked to produce the company's first-ever Sales Directory and Product Guide. Covering the whole of Marconi Avionics Limited's activities at all the UK sites, it has been written with the aim of helping prospective customers to get the products or services they require.

Compiled, edited and typeset entirely by computer, the new publication, which has already been widely distributed at the Farnborough Air Show, will be especially easy to up-date, to reflect the company's developing product range. The task of producing an alphabetically-indexed product guide has never been undertaken before because of the great diversity of products and applications, across the whole company. In aviation alone, Marconi Avionics has a bigger product range than any other company in the world. With word processors, and the software which can convert the words to the type-set layout required for printing, the whole job has become manageable.

The team which produced the new publication, under the direction of the Company's Information Executive, comprised John Lockyer who heads the Technical Library and Information Services at Rochester, Barry Rouse, Chief Illustrator, AS&RD, and his colleagues, Dave Linkin, Senior Illustrator, and others, and Jackie Cook, the Editor, who produced the text using the word processor.

The booklet describes the company's business fields in general, the activities of all Divisions in detail, together with their addresses and telephone and telex numbers, as well as the alphabetical product guide, with codes to show who does what. Its layout is designed to be "user-friendly" (in the language of avionic systems design), to enable customers to get answers to their sales enquiries quickly and accurately. The authors hope that it will not only help to promote sales but will also help those who answer enquiries from many people who telephone the company each day, a task which is so ably managed at Rochester by Mrs Pat Kennett, the Information Officer.

Copies have been sent to agents and representatives around the world and are available at all Exhibitions the company attends. In addition, they have been sent to the Information Officers of other GEC companies, to help them to detect those enquiries which should come to Marconi Avionics.

The booklets are available for use by all Divisions of the company, at all Establishments, from the Technical Library at Rochester.

APOLOGY

We regret that we ascribed "Gather ye rosebuds" to R. HERRING, when it should, of course be that great English writer R. Herrick (Rev.) Thank you, Mr Cox of ATE for pointing it out, the error was due to bad calligraphy.

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Marconi Avionics News

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Volunteers should offer their services through Divisional Administration Officers or direct to the Editor



WAR IN THE FALKLANDS

South Atlantic Fund

The employees of Marconi Avionics and Fisher Controls were not unmindful of the sacrifices, endurance, bravery and skills displayed by the Forces of the Crown, during the recent conflict in and around the Falkland Islands. A collection for the fund was made, in all divisions, with a grand total of £733.68 being handed over. This sum was made up as follows:-

EDP	18.50	Transport	5.84
Management	36.05%	Fisher Controls	43.70
FCD	68.00	Canteen	5.11
ISD	95.11%	ATED	52.11
MASD	43.11%	AS and RD	48.06%
Fisher Controls	31.74%	Bottle Donation	1.00
PSD	50.00	Total	£733.68
Gyro	31.22%		
Accounts	6.15%		
COD	18.63		
CMS	23.41%		
IND	36.02		
ADD	50.15		
CACD	51.00		
FARL New Road	18.73%		

On behalf of the Fund, a big thank you to all collectors, organisers and donors for a splendid response.

CASTAWAY

Miss Carol Pynn, who is 24 years old, has been with the Company since 1976, when she began in ADD. Her main interests are Dancing, be it Ballet, Tap or Modern. She has been successful in passing various exams and would like to go on to be a Teacher of Dancing. Recently, she attended a Top of the Pops recording, and was caught by the cameras as she stood grinning at the audience, standing beside the DJ.

MUSIC

Randy Crawford. "Tender Falls the Rain" - I've met this super lady, it amazes me how she captures just how you're feeling in every love song. This one says it all.

Isley Brothers. "That Lady" - If it's the isleys, it's summer. One of their most danceable tracks.

Santana. "Bohemian" - Though this is one of their older "concept" type albums it is brilliant to dance to. The band are a little more commercial now, but still turn out great music.

Davidp Carlos Santana. "Oneness" - The lead guitarists' solo effort, a bit deep, but by far Carlos at his best.

Yes. "Tragedy" - Quality music and musicians. Their finest album, cram-packed with everything but the kitchen sink.

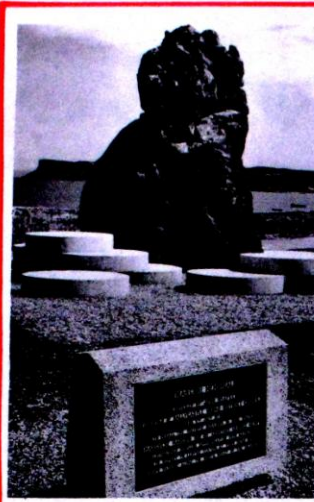
Jon Anderson. "Song of Seven" - A charming singer. He was good as lead singer with Yes and is better solo.

BOOKS

Lord of the Rings. J.R. Tolkien - An immortal book.

Alice in Wonderland. Lewis Carroll - One of my childhood books. I was always reading it.

I.D.T.A. Dance Synthesizer/Glossaries - I could still practice my dance training from this valuable handbook. I wouldn't be without it.



HISTORICAL ASSOCIATIONS

When travelling in Ireland, in the locality of Ballycastle, spare a while and seek out the Memorial to Guglielmo Marconi.

A fine piece of workmanship, to honour a man who did so much to bring the world together, and make travel across the seas safer. We are indebted to the "Irish Times" for the photograph and for permission to publish it.

The wording on the memorial stone can be read with the aid of a magnifying glass. Did you know that Marconi was the son of an Irish Lady?

The photograph and details below appeared in the IRISH TIMES, issue dated July 31st 1982, and is an item from the part four of a travelogue by Brendon Farrell. "This is part of the Marconi Memorial at Ballycastle Harbour. In the distance and to the left is Fair Head, wild, rugged and green.

Guglielmo Marconi was born in Bologna, of an Irish mother and an Italian father. He was first to demonstrate that radio could be used for long-distance communication. In 1900, when only 26, he founded the Marconi Wireless Telegraphy Company and it was as a result of his pioneering activities that radio was rapidly adopted for worldwide communications.

His connection with Ballycastle has very much to do with his assistant, one George Kemp, who, using Marconi's system, transmitted between the mainland and Rathlin Island (off North Antrim), proving to Lloyds of London that wireless telegraphy was possible and practicable. On receiving a report of the success of the trial Marconi joined Kemp in Ballycastle for days of further successful tests.

It was some few years later that Marconi achieved the greater success by transmitting radio signals from Poldhu, in Cornwall to St. John's, Newfoundland, a distance of 1,700 miles, thereby starting up the systems of which we are very much a part."

Commercial Activity

The company management are always applying new ideas, new means, as well as new products, to ensure the continuing development, growth and stabilisation of the concern.

One branch - Company Information - has recently been active and has produced some booklets and information sheets. These are:-

Recent Corporate Publications

"Facts About Marconi Avionics" - new 1982 edition.

These are mainly for use in the United Kingdom for corporate "image-building" but can, with discretion, be used anywhere. Sufficient quantities have been produced to enable them to be given out whenever we come into contact with influential members of the public (and not only prospective customers). Copies can be obtained from the Chief Librarian, Marconi Avionics Technical Library at Rochester.

"Sales Directory and Product Guide 1982".

This is a comprehensive classified index of products and services together with a description of each trading operation's business and a list of telephone and telex numbers and postal addresses. The booklet, compiled, edited and typeset by computer, has been produced in-house with the cooperation of all the Divisions listed. Of some 5,000 printed, about half have already been put to use at the Farnborough Air Show and by some Divisions. It is important that we bring it to the attention of any prospective clients as well as those in our organisation (and allied organisations) who supply information to clients. Your cooperation in developing the use of this Guide will materially effect its success. Copies can be obtained from the Chief Librarian at Rochester, who also has the classified product data available on word processor disc for anyone who wishes to reproduce it in a different format.

Company "Family Tree". (See centre pages)

Volkswagen Camper van

1973 1600cc

c/w with sink, cooker, cupboards etc

£1200

Apply Geoff Gosling int. 2863
 or home telephone Medway 724508

**Not so unlucky 13th
 (October 1982)**

Miss Faith Heywood, a Statistical Clerk within the Accounts Dept., passed her driving test on 13/10/82.

Congratulations from father, mother, brother Tony and all her friends!
 It is reported that special thanks are due to the Ambulance and Fire Services, and Police for being on alert during the test. Fortunately they were not required as, says her father, "most of the driving took place on the pavement anyway". However, well done, Faith!



SCADC Anniversary Delivery - Congratulations

Twelve months after the Award of the USAF and USN Standard Central Air Data Computer Contract to Instrument Division, we see the first Production Standard Units en-route to the United States.

Our picture shows two units prior to a planned "whistle stop" tour of USAF bases during the next two weeks. These units will be installed and checked out by ISD and Atlanta Engineers, in USAF Aircraft in GEORGIA, DELAWARE and NEW JERSEY.

The group of ISD Engineers shown are representative of the wide range of disciplines, departments and other divisions who have contributed to this supreme achievement.

People in the photograph,
 Dave Silsby (Dep. Prog. Manager)
 Pete Frier (Engineering)
 Bob Gee (Production)
 Mark Gamm (Programming)
 Doug Lyle (Engineering)



Congratulations

Congratulations are offered to Miss C. Acaster (MASDIO) and Mr W. Steggals (Cost & Budget - ATE), on their engagement which was announced at the MASD Disco held on 1 October.

Also to
 Christine Oat of MASD Production Office, who has at last SUCCESSFULLY BAKED A BUN. Well done! Perseverance pays off.

Marriages

Jackie Howell, a clerk in Contracts Dept., CACD, proceeded up the aisle of St. Matthew's Church, Borestal, to be married to Stephen Barnes on Saturday, 9 October 1982.

Dave Watkins, Development Engineer in ISD, was married to Bev Coulson, Project Administration Clerk PDS of ISD, on 26 September 1982 at St. Nicholas Church, Strood.

Our first HND Trainee Computer Programmers graduate with distinction

Our Trainee Computer Programming scheme was initiated in 1976 to help fulfil the increasing demand for trained personnel in software engineering.

The original scheme was a two year one and included day release to study for the Higher National Certificate in Computer Studies. In 1979 in order to have a course that related more to the technical nature of the Company's software and give our trainees a sounder academic base, it was decided to upgrade the TCP scheme to train computer technologists.

The pattern of the new arrangement was to be a three year sandwich course studying for the Higher National Diploma in Computer Studies at the Mid-Kent College, the study periods taking up two academic years.

The trainees of that first 1979 HND intake have now graduated with considerable success.

A number of trainees have gained distinctions in one or two subjects but by far the most outstanding achievement has been that of Veronica Hayter.

Veronica, who is now employed as a Computer Programmer in ATE, gained distinctions in all five subjects.

Our heartfelt congratulations go out to Veronica for her achievement and wish her, along with all the other graduates of the 1979 intake, the very best of success in their future careers.



Veronica Hayter a twenty-one year old Computer Programmer in ATE Division has just achieved outstanding results for her Higher National Diploma in Computer Studies.

Veronica left Medway Technical High School for Girls (Fort Pitt) in July 1979, achieving O'Levels in:-
 Mathematics Biology
 English Language Geography
 English Literature Art
 Physics

and A' Levels in:- Mathematics and Physics.

In September the same year, Veronica joined Marconi Avionics as a Trainee Computer Programmer, joining a 'block release' course for HND in Computer Studies at the Mid Kent College of Higher and Further Education, Fort Horsted. The course was three years in length and the following subjects were included:-
 Computer Programming Technical Option
 Computer Systems Architecture Quantative Work
 Data Processing

Veronica gained Distinctions for all subjects. Part of this Examination was a project which was a work-based project for a customer called "Fault Trend Analysis", written in PASCAL language. The purpose being to keep records of faults in components within a system.

The examination was taken in June this year (1982) and, after a two month wait, Veronica finally received her results on 20th August, a date which she is unlikely to forget.

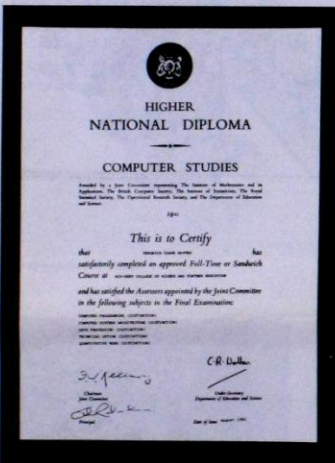
Veronica is now a Computer Programmer, working on the MRCA In-House team in ATE Engineering Department. A part of her job involves her flying to Norwich (MRSU) in the company aircraft, which she enjoys very much. At Norwich she uses the LF ATE to commission programs.

Veronica's hobbies include squash, badminton and athletics. When asked, she was not quite sure where she wants to go from here, but clearly here is a young lady with a bright future.

There were twelve others from Marconi Avionics on the same course. Other Distinctions were gained as follows:-

T. Gilbert	2 subjects	I Skinner	1 subject
S. King	2 subjects	L. Smith	1 subject
M. Standen	2 subjects		

Congratulations to you all, and good luck to those presently on the course.



Appointment

To meet the Company's requirements for video and tape-slide presentations more cost-effectively, an audio-visual unit is now being established at Rochester. This decision has followed a Company-wide survey of requirements carried out by Mr R W McCall.

The appointment is announced of Mr R W McCall as Manager AV Unit. He will report to Mr Moulton, Company Information Executive. It is important to the success of the Unit that all requirements for AV programmes are fully communicated to Mr McCall.

NOTICE

For personal reasons, Mr David Evers has decided to re-emigrate to Australia and has therefore regrettably tendered his resignation as I.N. Divisional Manager.

We all wish him continued success in his new occupation.

For a temporary period Mr John Keeble will act as Divisional Manager of Inertial Navigation Division.

STILL MORE PROGRESS

Once again we are able to witness the effect of the continuing success story of the company for which we work.

A new building will shortly be erected, which is named "Falcon Building" and whilst all those who use the Laker Road (old Windsock)

entrance have to put up with construction plant—and due to weather the mud and filth—the satisfaction is knowing that the management have faith in the future to embark on yet another extension.

The building is to be of 11,120 sq. ft., single storey and is due for completion in June 1983. This will then house the manufacture of Holographic Systems.

Photographs show work on the site in its early stages.



British Laser Gyroscope makes top grade

Marconi Avionics Limited has made a breakthrough in UK Ring Laser performance by demonstrating a compact laser gyroscope of "Inertial Navigation Grade" accuracy and consistency. In this latest standard of design, the drift rate has been reduced to give an equivalent navigational accuracy of better than half a mile an hour.

The laser gyro has been under development at the Company's Borehamwood Establishment for several years, and is designed to replace conventional gimbaled gyroscopes in inertial navigation systems.

Marconi Avionics, which has demonstrated both inertial navigator qualities and smaller missile grade versions, believes that its equipment now leads the field in UK laser gyro performance.

Principles of operation

Gyros are used in aircraft, missiles, ships, and submarines to measure angular changes in bearing, pitch and roll, and for precise navigation and control very low gyroscope drift rates are required. Spinning wheel gyroscopes have been used for such purposes for over 50 years, but they suffer from wear, are liable to sudden failure, and cannot operate under the severe vibration and very high acceleration conditions of modern missiles. The laser gyro makes use of two beams of monochromatic light, which counter rotate around a triangular path formed by three mirrors, each of which has a very high degree of reflectance. Rotation of the ring produces differential Doppler frequency shifts between the two beams which set up an interference pattern. This is detected by photo cells and the resulting beat frequency provides an extremely accurate measure of the rotation. The mirrors are precisely mounted on to a block of glass-ceramic at the ends of small holes, drilled through the block, in which the light beams circulate. The Ring Laser has many fewer components than conventional gyroscopes, has no bearings, servo motors and drives to wear out, does not require a gimbaled platform, and has zero warm up time. The instrument is hence more rugged and reliable than its mechanical predecessor, and will greatly reduce the cost of ownership of inertial navigation systems.

Marconi Avionics Limited, Rochester

Applications are invited for the

Sixth Annual Award of the

HASKETT TROPHY FOR ENGINEERING

which is judged to be the best engineering achievement of the year that is likely to lead to an improved product.

The competition is open to all engineers employed by Marconi Avionics Limited at Rochester up to and including Project Manager or equivalent grade. It is open to an individual entry or team entry.

The trophy engraved with the winners' names will be exhibited in the main foyer and a replica miniature trophy will also be displayed in the winning entrants' division, in each case accompanied by a suitable descriptive panel of the entry. A miniature souvenir trophy will be presented to the winner or members of the winning team, as appropriate.

In addition, the Company will donate a gift to be chosen by the winner or winning team to the value of £600.

The sum of £25 will also be paid to every other qualifying entrant, up to a maximum of £100 for a team entry.

The judgement as to whether an entry is of qualifying standard will be made by the Divisional Manager of the appropriate Division.

The competition will be judged by a panel of five engineers from within and outside the Company. Innovation, effort and cost effectiveness will be taken into account.

A written paper must be submitted to support the entry (six copies will be required for review by the adjudicating panel) and the entrants will be required to make a presentation of their entry to the panel.

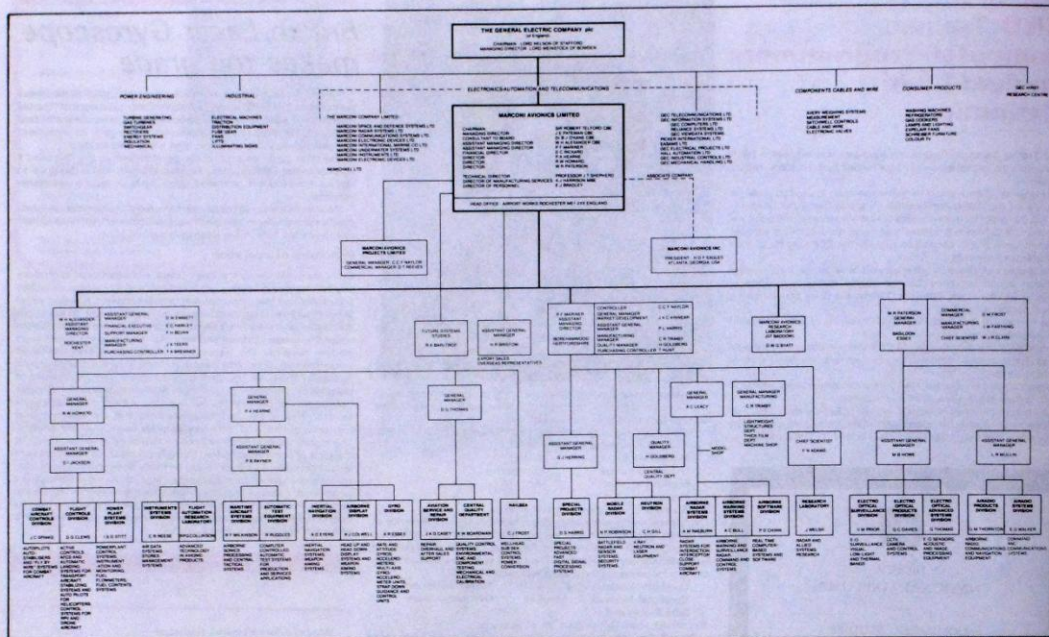
The list of entries will be published on the Company Notice Boards in early December 1982.

Where practical, the winning entry will be submitted for publication in the GEC Journal of Science and Technology.

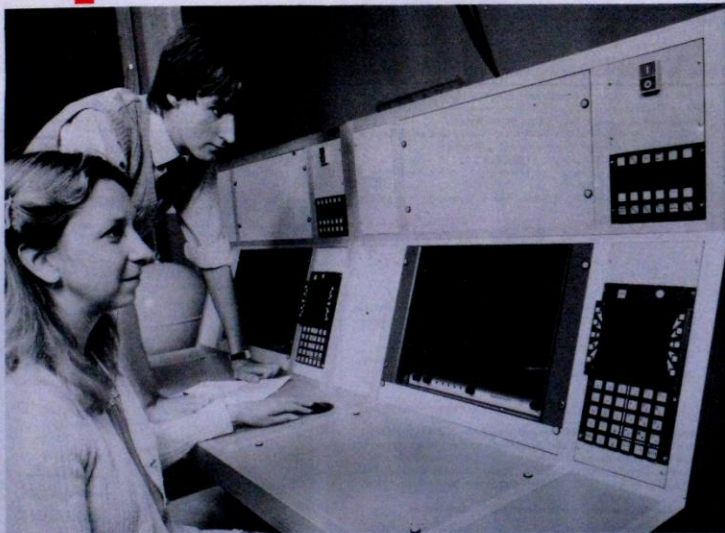
Further information about the competition may be obtained from J. M. Neale, Personnel Department. Entries should be made in the first instance through the Divisional Manager of the appropriate Division and should reach the Personnel Department by 28 November 1982. However, a brief synopsis of the proposed entries should be submitted by 29 October 1982.



NO MADAM, MARCONI'S WON'T BE BREEDING BUDGIES EITHER.



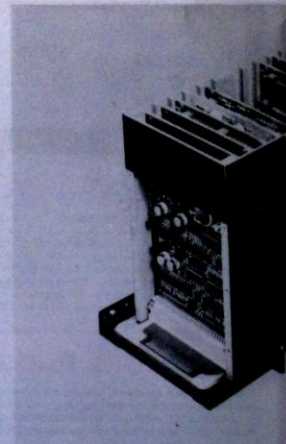
MARCONI AVIONICS LIMITED - SEPTEMBER 1982



MOSAIC—New mission avionics for maritime and surveillance aircraft.

First picture to be released of MOSAIC, a new concept in mission avionics from the company's Maritime Aircraft Systems Division, Rochester, England, shows the system integration testing being completed. Dr Kathy Damps, the Systems Engineer responsible for MOSAIC display formats and operator facilities, and Mr Paul Culpin, Computer Programmer, who has helped to prove the advanced system software, are seen testing one of the two complete Operator Stations depicted.

Picture shows the electronic Multi-Purpose Display, the Common Control Unit (bottom right) and Station Select Panel (top right), all that is needed for a complete control station. Any number of control systems can be installed to suit operational requirements.

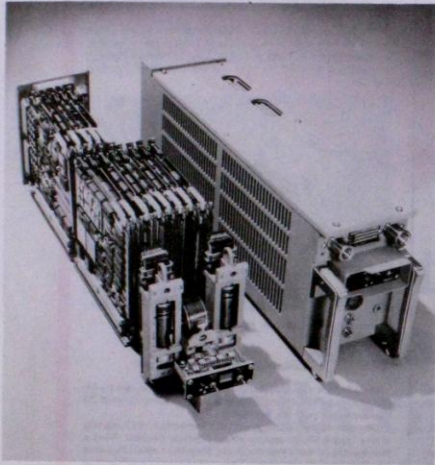


New "Strapdown" guidance and control heavyweight torpedo.

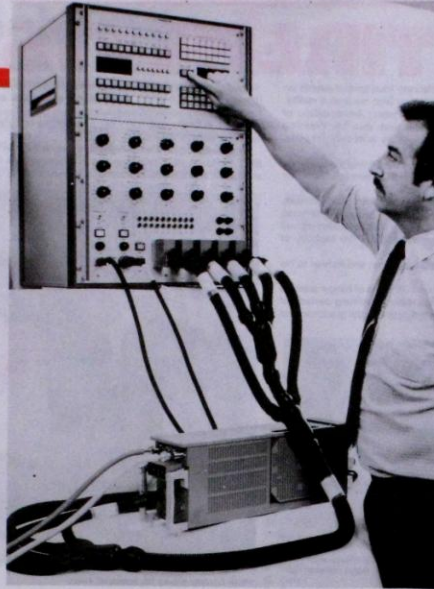
The unit depicted, one of the latest in a range of "Strapdown" attitude sensing units from the company's Gyro Division, Rochester, is for the UK's new Spearfish heavyweight torpedo. Marconi Avionics pioneered the use of "Strapdown" technology (the use of angular rate sensors in a rigidly-mounted orthogonal microcomputer to calculate vehicle attitude), with the Control for the Sting Ray torpedo. "Strapdown" has since been applied to the Inertial Navigation gyro-compassing unit for land vehicles and in the Establishment's new Ring Laser Gyro developments now in navigation quality.

PRODUCTS

What the Divisions produce, and some of the people who are directly concerned.

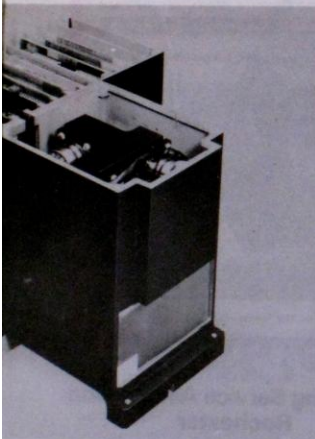


A breakdown picture of the unit



New range of Air Data Computers for US Air Force and US Navy aircraft.

Marconi Avionics poised to deliver SCADCS units
 The first of the new range of Standard Central Air Data Computer Systems (SCADCS) which are under development for equipping over 30 variants of USAF and US Navy aircraft, is pictured prior to delivery.
 The unit depicted is designated CP-XXX3 and is one of a set of four, which together make a standard set, for all the aircraft concerned. Each unit is made of standard sub-modules, to give a very high degree of commonality across the whole inventory. CP-XXX3 is for all the transport aircraft concerned: the C-5A, C-141 and KC-135.
 After flight testing in the United States, Marconi Avionics will compete for its share of production.



Unit for

1" control and
 ster, England,
 pes in Europe
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 Sensors Unit
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 viewing inertial



UK orders "user friendly" Thermal Imaging Systems into full scale production.

The United Kingdom's Thermal Imaging Common Modules (TICM), are a set of standard "building blocks" from which any number of imaging systems can be made, to meet the day/night viewing requirements of all these armed services.
 Marconi Avionics Limited and Rank Taylor Hobson Limited, the companies which have developed TICM, have now agreed a fixed-price contract with the UK Ministry of Defence for full scale production.

Picture shows some of the Modules and a typical imager. Any kind of conventional TV monitor can be used. The superior performance and remarkable ease of operation of TICM imagers has dubbed them "user friendly".

www.rochesteravionicarchives.co.uk

RETIREMENTS

It is not everyone who can celebrate four special events on the same day, but recently in ISD that feat became a reality. For on 17th August **Harry Lauder**, a Project Admin officer of ISD, had his 65th birthday, which was also his Wedding Anniversary (35 yrs) completed 25 years with the company, and retired that day!

Harry, who served in the Royal Navy for 24 years in Gunnery, became a C.P.O., and was for some 10 years an Instructor in the art.

Joining the company in 1957, he went into Fuse Division, under Mr "Paddy" Hunter and became Embodiment Loan Officer. This post he held up to the time that Fuse Div. moved to Portsmouth, when he transferred to ISD in the capacity of Prof. Admin. Officer.

On his retirement, he packed up his home, and moved to his native Lincolnshire.

His wife and himself have enjoyed 35 years of happy wedded bliss even though as a R.N. man there were long periods of absence. They have one son, (in the Army) and a grandson and granddaughter.

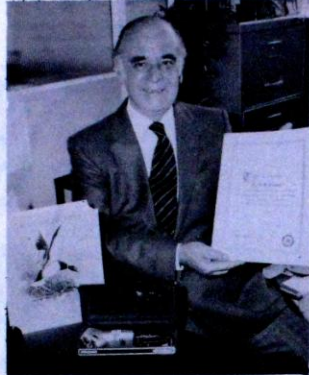


Mr. D.E. Marvel, extreme left holding the LSA Certificate with Harry (second left) receiving the Philshave, while Mr. C.R. Reese (extreme right) holds the clock, prior to the presentation.

The interests he lists include Gardening, Embroidery, Macramé (Ropework) of the latter, many of his associates within the Company have obtained examples.

Unique in family ties, Harry has a stepfather and stepmother! who are both in their 80's.

On behalf of all his friends and colleagues, within the company, Mr C.R. Reese, divisional manager ISD, presented a Philshave and Clock, and the LSA handed over his membership certificate.



Harry Lauder shows his treasured items.



Fred Pacey and A.J. Harrison, MBE (D)

A one time well known worthy has been missing from the Rochester site and the reason is that the man concerned has retired, having done so in the latter part of 1981.

Fred J. Pacey, was around the works on and off since 1957, when he joined the Aviation Division as a Sales Engineer, under the then divisional sales manager Ted Webb.

Born on 1 October 1916, he spent 10 years in the RAF (5 of them in wartime, under combat conditions and 5 post war) leaving as Acting Squadron Leader. He served Rediffusion in the Far East and was on the staff of M16 in the Middle East before coming back to England, and the company.

In 1960, MACD was formed, under joint Divisional Managers—Div. Emmett and F.J. Pacey at Rochester and Harry Cooke at Borehamwood. Later on he joined Gyro Div. as Sales Manager and had a big part in selling the GR-H4 Gyro for the Sea Dart missile.

Then came a break for 5 years in which he worked for another electronics firm. Rejoining in 1966, he teamed up with the late Fred Haskett on Air Shows, and still later, joined the Production Team under A.J. Harrison MBE with responsibility for sub-contract liaison. This arrangement has been described as "poacher turned gamekeeper". He continued in this capacity until October 1980 when he went to administer the sub-contract operation in Norwich, carrying out his duty until final retirement in October 1981.

In the first few days of 1982, he was recalled to the works to be presented with a Gold Plated Quartz Watch and Cut-glass Decanter to mark his service with the company.

Our picture shows Fred, on right, receiving from A.J. Harrison MBE, the gifts which had been subscribed for by the many friends and colleagues. Living now in Buckingham, he says he is beginning to adjust to retirement and likes what he sees.

Earlier in 1982 IND said farewell, on her retirement, to one of the "characters" of the Division, as **Freda Tompkins** said enough is enough.

Freda began work for the company in 1963 within TAC Division, producing Cable Forms and on Coil Winding. When TAC ceased this type of production she joined the Inspection Department of Fuse Division, where for many years she was hiding away across the airfield inspecting the Filters. As Fuse moved to Portsmouth, Freda became a member of the Inspection Dept. of IN, later becoming a Progress Chaser, which post she held at the time of her retirement.

Noted not only for her "happy go lucky" attitude and always ready to add to any conversation, she will be missed and be difficult to replace.

As a cook, to the delight of the TAC and Fuse personnel, she excels especially with cheese and onion pies and sausage rolls.

Mr. A.D. Eyers the Divisions Manager recalled that he had also been her 'boss' in Fuse days, of which division he was the Production Manager.

The gift to mark her retirement was a Cassette Tape Recorder (she can now hear her own voice).

Her husband and daughter also are employed by the company, John, her husband, being in the Transport Dept. They also have a son, who previously worked here also.



Freda receiving her gift (D)



The family group and Mr. A.D. Eyers (D)

25 YEARS' SERVICE

Mr B White was presented with a wall clock by Mr D.H. Harries, Production Manager of I.N. Division on completion of 25 years' service with the Company.

Bernard joined the Company in September 1957 in the Aviation Model Shop as a Prototype Fitter. He was amongst the group from Rochester who went to Boreham Wood for a years training on the Development of Blue Steel. In 1958 he transferred to I.N. Division again to work on Blue Steel. Then in March 1958 he was back at Boreham Wood and in September 1958 he returned to Rochester to work on Research & Development Blue Steel.

1960 found him in I.N. Division Progress working on E3 Jaguar. He continued in Progress until 1963 when he became Assistant Planner on TSR2 and E3. In 1963 he became Planning Engineer and in 1969 he was promoted to Chief Planning Engineer.



Bernard White with Mr. D.H. Harries.

Mr D Barnett was presented with a pair of binoculars by Mr D.H. Harries, Production Manager I.N.D. on completion of 25 years' service with the Company.

Doug joined the Company on 19th September 1957 starting in the Torque Motor section of the Aviation Division. After a few months he went into the Model Shop from which he joined I.N. Division at its conception. Doug was among the group from Rochester who went to Boreham Wood for 6-9 months to learn about Blue Steel. On his return to Rochester he worked on the Blue Steel Navigator. It was about this time he became a Leading Hand.

He transferred later to the main assembly shop with a spell on sheet metal work. He then transferred back to the assembly shop to work on the development of Jaguar, especially the Projected Map Display Unit.

He still works on this unit today but has also worked on all the Jaguar Units.



Doug Barnett with Mr. D.H. Harries. (A)

GEC Long Service Association Rochester

Following the retirement of Mr V.E. Spencer from active service within the Company, the position of President of the Association became vacant.

Under rule 5 of the Constitution, the Presidency was offered to and accepted by Mr D.H. Harries Production Manager IND who was formerly Vice-President.

To fill the vacancy of Vice-President, this was offered to, and accepted by Mr D.E. Marvel, Model Shop Superintendent ADD.

LEAVINGS

In order to Emigrate to AUSTRALIA, Norman Smith, G.A. Engineer within AS & RD and Joyce Smith, Records Library Clerk, AS & RD have resigned from employment.

Norman worked for the Company from 1974 until 1976, and in 1978 returned, to remain until his termination, while Joyce served the Company for 8 years.

We wish them well, and every success in their sojourn "down under".

Suggestion Scheme

At recent meetings of the suggestion committee, it was reported that many suggestions were awaiting information, or further information, to enable a decision to be made.

A suggestion concerning "the development of new products in several MAV Divisions for possible Underwater Search System", earned a nominal award of £5 for D.C. Potten, Chief Illustrator ISD., any further progress will be dealt with in due course.

Mr. B.J. Hocketts a Tester in ADD, also received a nominal award of £5, for submitting a suggestion which concerned the "manufacture of a field pulse counter to assist in the fault finding on digital cards while operating in a system without the need to return cards to module test".

Though the scheme still attracts suggestions, they are not as numerous as they once were, so take the advice of the call, herewith!



YOU'LL HAVE TO MOVE FASTER THAN THAT SIR!

don't let your
ideas
hibernate



use the
suggestion box

Apprentice Activity

On completion of their training, under the company training scheme for Trainee Draughtpersons/Tech Writers, the following have been posted as shown:

C. Acaster	MASD D/O
J. Butler	ISD D/O
G. Caller	CAC D/O
D. Payne	IND D/O
A. Rean	ATE D/O
F. Rodgers	CAC D/O
E. Spillett	IND D/O
A. Surton	FCD D/O
N. Hopper	AS & R Tech/Writer
A. Mulhearn	ADD Tech/Writer
A. Peris	FCD Tech/Writer
C. Pitt	AS & R Tech/Writer
M. Sandford	ATE Tech/Writer
N. Turner	MASD Tech/Writer
G. Watson	MASD Tech/Writer
A. Carter	CAC Tech/Writer

A further selection of apprentices who have completed their course of training on the dates given:

K.W. Fathers	4/10/82 to CMS Fitting
L.D. Sooles	22/10/82 to IND M/c Fitt
S.R. Harrie	4/10/82 to CAC Ass'y
J.R. Heathfield	10/10/82 to ATE Test
A.J. Smith	31/10/82 to CAC Test
P. Smith	8/10/82 to ADD Insp
M.K. Taylor	28/10/82 to MASD Tech/Pubs
M.J. Hadley	14/10/82 to ATE Eng
P.J. Hadley	14/10/82 to ISD D/O
K. Morling	1/10/82 to ADD D/O

Pastures and Environment Anew

P.S.D. have said farewell to Keith White after 4 years within the division as a Senior G.A. Engineer, specialising on Engine Control and Automated Powerplant Test Systems.

Keith has decided to give up industry, to become a member of the Priesthood, within the Church of England. Having felt "called" to the ministry some 3 years ago, he has spent two years pre training on the "ASTON TRAINING SCHEME", studying with the OPEN UNIVERSITY, before being finally accepted for full training. He is proceeding to St John's Theological College for 2 years, participating in the Essay Course, specially designed for over 30 year olds. During his residential training, his family consisting of a wife and two children, Matthew and Angela, have moved to Nottingham. At the conclusion of his course at St. Johns, he may well return to the Rochester Diocese, as an ordinand, and proceed to a curacy.

He regards the work of interfacing with people as a good preparation for his future career. The fitting in with his fellow workers in MAV, enabled him to gain valuable experience, and learn much, through his observation of people.

A list of hobbies and interest, include Reading, Popular Music and "people watching".

During his MAV career, over a period of 11 years, he has served the Company in CQD—repair facility for 3 years, MASD Quality Ass. for 3 years, MASD Engineering for 1 year AND ON TO PSD.

Sports and social club round up

Amateur Radio Section

On the weekend of 16-17 October the Amateur Radio Section of the Social Club teamed together to enable the Gemini Venture Scout Unit to "listen to the world". The event was the 25th Annual Jamboree On The Air.

For the non-ex-scouters amongst us, a Jamboree is a social event for the scouts whereby as many groups as possible meet to exchange news, views and generally have a good time. The difference with a "Jamboree On The Air" (or JOTA) is that the meeting is achieved via the medium of radio, thus allowing the contact to be worldwide.

The exercise was held in the 1st Meopham Scout Group H.O. and as it was a first attempt for both the section and the Scout Group, it was decided that only two shifts would be run. The times chosen were 8 am to 8 pm on Saturday and 8 am to 5 pm on Sunday.

Two special call signs were obtained from the Home Office; GB2GVS for the H.F. station and GBBGVS for the V.H.F. station. Owing to a recent concession from the Home Office, stations holding these special call signs could allow non-licensed people to say a few words over the air. This concession, a very recent one, was greatly appreciated by the Scouts. For the first time they could take an active part in the event instead of just acting as observers.

In total, approximately 150 different stations were "worked", most notable of which were stations located in Japan, Russia, Canada, U.S.A (New York) and most of the European countries. In the U.K. conditions allowed the V.H.F. station to "work" many stations located in the Midlands, with a peculiar affinity for the Luton area. A special QSL (contact verification) card is being printed, one of which will be sent to every contact made throughout the whole weekend. It is hoped that all the cards sent will be replied likewise.

After the success and experience gained this year in operating a JOTA station, it is hoped to operate a similar station next year, from the Gravesend District Scout Campsite at Hopehill. The event would also be open to the whole of the District scouts.

For membership details, please contact either of the following: P. Smith Int. 2474 or A. Ralph Int. 2730



Members at the Scout Jamboree of the Air Scouts and the Radio Amateurs, who set up station and took part in the world wide activities are:-

L-R (Back Row) Ken Baker, Ian Tackley, Lynne MacCullie (ICAD), Julie Woodson, Mike Taylor (ICAD), Tim Cook (Front) Keith Barton (ICAD), Peter Jarvis (ICAD)

Photograph by Courtesy of "GRAVESEND REPORTER"

Cricket Section

The old Elliott Cricket Club has now combined with the BP Kent CC to form a joint section known as MAv/BP (Kent) Cricket Club. In doing so, a flourishing Colts section has been absorbed. The future of club cricket depends, as does so many other things, on a regular supply of young players who are willing to be tutored in the sport. The facilities and manpower are available to continue, and extend this worthy activity, but the search is on for young would-be players aged between 10 and 17 years to join the ranks.

Whilst you may not want to indulge directly in the sport (no finer sound in summer than that of leather on willow) it is probable that you have a son, grandson or nephew who would like to start playing the game.

Indoor practice begins around February with outdoor work about April. There is something like 20 matches arranged for the year, including Medway Colts League.

If you have, or know of a prospective candidate, please contact Bill Burke ADD internal phone 2633 external phone ext. 470

BP Photographic Club

Programme for competition 1982

November subject "WHEELS"

December subject "TEXTURE"

Programme until end 1982

Thursday 11th November 1982 at 8.00 pm
"NIGHT PHOTO SESSION" meet Canal Road, Rochester

Thursday 25th December at 8.00 pm

Prints from outdoor session.

Monthly Print Competition—"WHEELS"

Thursday 9th December at 8.00 pm

Studio Photography—"GLAMOUR SESSION"

Monthly Print Competition—"TEXTURE"

Thursday 16th December at 8.00 pm

Social Evening and Presentation of BP Camera Cup for "Best Photographer of the Year"

Elliott Photographic Society

The club held its annual cheese and wine evening on Wednesday 15th September, the event was very well supported. There was a demonstration on studio flash by 'Bowens', with the equipment being available for use throughout the evening. There was also, another studio set up using tungsten lighting, a slide cinema showing members' work, a display of prints, and the club equipment.

The evening appeared to be enjoyed by all and has inspired a few to become members. The club meets every Wednesday evening from 8.00 pm, in the Towers Conference room, and any body with an interest in becoming a member is always welcome. This years programme is a full and varied one with something of interest to anyone liking photography. A short extract of the forthcoming programme can be seen below.

17th Nov Basic Photo 2: Darkroom technique film and paper processing reversal processing by Company Photographer Alan Keats.

24th Nov Durst colour demonstration.

1st Dec Special effects—round table discussion.

Swimming Section

When the MAv Social and Sports Club amalgamated with the B.P. Kent Club it inherited among other things, one of the finest and best equipped private swimming pools in the country. This pool has been used in the past, not only for social swimming and the swimming classes but also a highly successful competitive section with a membership of some 50 swimmers.

The B.P. Kent Club had an impressive list of successes with representation at county level and many successes in Medway area championships. Some record times set at this level still stand.

Unfortunately at the last AGM in November 1981, the then committee faced a completely uncertain future and advised their better swimmers to resign and join other clubs. Most of them joined the Black Lion Club although some went to Gravesend and Northfleet and other clubs. A few swimmers still train at Four Wents but these are now second class swimmers. If the club wanted them to swim in a match their other club would have first claim on them.

Since that last AGM the club has struggled on training as best it could but now Peter Loftus, a project leader in MASD who has also been a qualified ASA club coach since 1971, has volunteered to take over the training of the Club.

Peter tells us that the old B.P. Club had a great reputation in Kent and that he feels confident that the new section could and should carry on this tradition. He said it was a pity that so many members had been lost but there were some promising youngsters who had not resigned. He appreciated that parents working in MAv who had children who were competitive swimmers in other clubs could not expect their offspring to resign and join the company club.

The best hope now is for parents to bring their youngsters along to the learner and intermediate classes so that any swimmers with any promise can be invited to join the training squads. A proposal to increase the time spent on these classes will be made at the next AGM and in our next issue there will be a report on that AGM.

In the meantime please ring Peter on internal 2353 if you or your wife/husband are any swimming teaching/coaching experience since if we are to succeed we shall need all the help we can get.

Whats on Diary

MARCONI AVIONICS/BP KENT CLUB FOUR WENTS, HOO

Friday 19th November

Family Social Evening

with

"Flyin Hi"

8pm - 1am admission FREE. Tickets available.

Saturday 20th November

Band Concert by Elliott Concert Brass

8pm - 10pm Guest Artists

Rita Cook Ken Trafford

Saturday 4th December

Children's Discotheque

with "Vapourisation"

7pm - 10.30pm admission FREE—under 16

Saturday 18th December

Christmas Showtime (Variety Show)

8pm Waiter service and table reservations

Tickets 44400 extn. 256 and Club Bar

Friday 24th December

Christmas Eve Dance

with "Mescalero"

7.45pm - 11.45pm admission FREE

NOTICE

Opening Times over Holiday Period

25th & 26th December: Bar open Noon - 2pm

All other facilities CLOSED

Bar, Squash and Tennis Courts

open usual hours.

All other facilities CLOSED

1st January 1983 Pool CLOSED

All other facilities open.

NOTICE

From 1st November 1982 onwards.

Bar CLOSED lunchtime Mondays - Thursdays (incl.)

Diary Dates

E.D.P. Christmas Party & Buffet

Friday 10 December 1982

at MAv/BP (Kent) Clubhouse

Four Wents, Bell Lane, Hoo

8.00 pm till 1 am

Music supplied by "JET"

NEW YEAR'S EVE

31 December 1982

Marconi Avionics BP Kent Club

Dancing 8.15 pm - 12.15 am

Tickets £1 (free raffle)

Available Club Bar and Airport Works Canteen

REGRET NO GUESTS!

NEW YEAR'S EVE

31 December 1982

Swimming Pool open

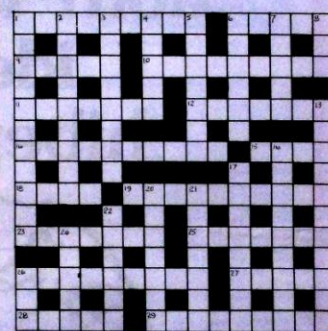
11 am - 1 pm and 3 - 5 pm only

Children under 16 cannot be admitted

after 6.00 pm and if on premises,

must leave by 9 pm

CROSSWORD No. 46



ACROSS

- Both in pledge and promise (9)
- Surprise saw each other (3-2)
- Another surprise—awestruck (5)
- For excused this time, blind eye (8)
- Mother of invention (9)
- Dangerous rocks, and mothers friend (7)
- Appertaining to Javanese tree giving poison (7)
- Larking about, without concern (3-7)
- Teenager's spots (4)
- Financial commitment as Tenant (4)
- Amplifier of Voice if in hand (4-6)
- Odd piece, material or news (7)
- The optic in gay mood (7)
- The great hug of the night sky (5-4)
- Egg shaped (5)
- Where water and rubbish languish (5)
- Complete service for attire (9)

DOWN

- Heavier than showers and of the mind (5-8)
- He has skill at fingertips may be till (9)
- Be excused this time, blind eye (8)
- At the extremity of arms (5)
- Yes, she does use it to keep hair in place (7)
- Roman Catholic service book (6)
- Squirm and get yourself in a knot (5)
- Result of labour (3)
- Ahead for raising tribute (5-8)
- The disadvantage of service, liable to be (6-3)
- Italian food, tubular (8)
- Has no time to stand and stare (2-3-2)
- The canine dance (3-4)
- The adolescent scene (6)
- Perfection, moral and physical (5)
- A stuffing or suppression (3)

SOLUTION TO CROSSWORD No.45

ACROSS

- Punctures, 6 Sapid, 9 Inner, 10 Singleton, 11 Statute, 12 Ignored, 14 Adequately, 15 Made, 16 Iis, 19 Able Bodied, 23 Grately, 25 Bravado, 26 Black Bees, 27 Owing, 28 Their, 29 Fly Weight

DOWN

- Paintstaking, 2 Nonpareil, 3 Tortuous, 4 Respect, 5 Sundial, 6 Silent, 7 Pater, 8 Don, 13 Dreadnought, 16 Animating, 17 Not alone, 20 Bay Leaf, 21 Embassy, 22 Seeker, 24 Aggie, 26 Bat.

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