

NOV 43/82

MARCONI AVIONICS NEWS

House Journal of Marconi Avionics Limited



MOTTO FOR THE MONTH
 'The man who shoots Grouse has no complaint'



The other side of the picture!

'Everyone must do his bit'.

(Taken recently in the Towers car park). Photo by K.J.



Jess Griffiths BEM



The actual presentation of the medal by Lord Astor.

Monday, 10 May was the day that the Lord Lieutenant of Kent, Lord Astor of Hever, came to the works to present the British Empire Medal to Jess Griffiths (formerly a Production Engineer and now editor of MAv News).

A day to remember, not only for Jess but for the members of his family, who were privileged to be with him and share the happy occasion.

The Company Management, entertained him and his family, consisting of his wife, two sons and daughter-in-law and a nephew to lunch, prior to the presentation.

A large and representative contingent of employees from all sections of the works and divisions gathered in the conference centre, to witness the presentation.



The Directors who entertained at lunch.



Mr. and Mrs. Griffiths with some of the ladies present at the ceremony. L to R: Ann Smith (Central Ratefixing), Anne Billing (Confidential Secretary), Mrs. Griffiths, Sue Westrup (Confidential Secretary), Juan Golding (ISD Library) and Mrs. E. McKillen (Welfare Officers).



A few of the colleagues and friends present.

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Joan Gilding, ISD *Ken Castle, Ann Gilding, D.H. Pells, ATE*
Enik Loft (Calibration) and John Brambleby, GYRO
 Other are required for: CDD, RAS, CMS.

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



GETTING MARRIED?

We've introduced a special scheme to ease the financial strain of getting married. It offers:

1. A flexible mortgage savings scheme, leading to a guaranteed mortgage.
2. Free cheque accounts for the first year of marriage.
3. A cheaper Barclayloan (A.P.R. 18.8% as at May 1982).
4. Insurance cover for your car, house and contents, mortgage protection and life assurance.
5. Commission-free foreign currency, travellers cheques and travel insurance for your honeymoon or holiday.
6. Special private health insurance offer and free advice on making a will.

For further details, make an appointment to see *Kim Patterson* at the Company's Personnel Department by contacting *Christine Carter* on internal extension 2203, or contact the branch address in the coupon below.

To Barclays Bank PLC, 39 High Street, Rochester.

I am over 18 years of age and would like more information on your Getting Married Scheme.

Name _____
 Address _____



FORMABILITY
FAMILY KEEP FIT SESSION
SUNDAY MORNINGS
 10.30 TO 11.30 AM
FROM .. 20th JUNE 1982.

VENUE .. NEW CONFERENCE ROOM
AT MAIN MARCONI FACTORY.

THINK THIS!
 Contact .. Di Bower .. Int 2363
 External 44400 Ext 621.
 OR
 Enid ... at Clubhouse, Hoo
 on Medway 251492
 OR
 Eileen ... Int 2217.

Sessions are also held on Tuesdays
 at 7.30 to 8.30 pm.

Application for permission to be sick
 (new scheme working)

Submit form in sextuplicate - tick appropriate reason

- I am sick of
- (a) Agoraphobia
 - (b) Gnat bites
 - (c) Work
- I have an empty feeling in my
- (a) Head
 - (b) Stomach
 - (c) Wallet
- I am in bed with
- (a) Exhaustion
 - (b) Toothache
 - (c) A nurse
- I am taking
- (a) Pills (state colour)
 - (b) Care
 - (c) Rodine
- I expect to be ill
- (a) Until payday
 - (b) Occasionally
 - (c) For ever
- I require
- (a) Therapy
 - (b) A bedpan
 - (c) A transplant
- (If 'c' state member required, with details)
- Please send
- (a) A doctor
 - (b) A priest
 - (c) A cheque
- I expect to return to work
- (a) Monday
 - (b) In two weeks
 - (c) Reluctantly
- I have broken
- (a) Arm/leg (state R or L)
 - (b) Promise
 - (c) Mother's heart
- After the briefing, our thoughts take flight!!



CASTAWAY

For our castaway this month we go to ADD and find Mrs. Gladys Douglas, a cleaner in the division, who likes dressmaking, needlework and embroidery, cooking, gardening, walking and amateur photography. A full life for a working lady and housewife.

MUSIC
 Schuberts 'Ave Maria' - My favourite piece of music.
 Rimsky Korsakov's Greatest Hits - To relax and listen to such lovely music.
 Comedy in Music - Victor Borge - For when I am feeling a little lonesome this will cheer me up.
 Sound track of West Side Story - I enjoy this kind of music.
 Here in my Heart - Al Martino - A little of nostalgia. This was No. 1 in the hit parade at the time I was married.
 Camelot - sound track - I saw this show, and enjoyed it very much.

BOOKS
 A book on survival on a desert island - This would be of great help, not knowing how long I'd be castaway.
 Lord of the Rings - Having heard so much about this book, I would at least have time to read it.
 The Bible - For comfort in my loneliness.

FOR SALE

2 Bedroom Terraced House on Davis Estate
 Attractive two bedroom terraced house in quiet location on Davis Estate, comprising:

Ground Floor
 Entrance hall; lounge with Georgian-style bay window to rear and gas fire with back boiler; fully fitted kitchen/diner with fully tiled kitchen area, pine panelled ceiling and archway.

First Floor
 Two double size bedrooms; bathroom with coloured suite comprising panelled bath with shower attachment and screen, pedestal wash hand basin and low level WC, with fully tiled bath area.

- Full gas fired central heating
- All carpets and net curtains included

Neatly lawned and bordered gardens to front and rear and rear access to concrete base to park car.

£19,995 onvo

Phone L. Rossiter Medway 682616, ISD Tech Pubs (Int 2478)

Phone in the office
 The new secretary ignored the telephone when it rang. The boss finally told her to answer it every time it rang. She retorted, "Now, that is ridiculous. We both know it is for you, 'cause none of my friends know I'm here yet."

Kitchen Kapers

Instead of recipes for you to try, this month we are giving a short list of highly-recommended eating places. Have a day out and eat well.

Dolls House Restaurant
 Elham Valley Road, Barham, Nr. Canterbury, A2
 16th century cottage. Home baking.
 Prices from £3-50 to £6-00

Spinning Wheel Old-World Country Hotel
 Dover Road, Barham, Nr. Canterbury, A2
 16th century dining room. Roasts and home made pies.
 Prices from £3-50 to £6-00

Abbots Barton Hotel
 New Dover Road, Canterbury.
 On the site of St. Augustine's Farm. Fresh local fish. Real ale.
 Prices from £3-50 to £6-00

Chaucer Hotel
 Ivy Lane, Canterbury.
 Attractive, by City walls. Beef steak, Faversham style.
 Prices from £3-50 to £6-00

Chilham Restaurant
 Canterbury Road, Chilham, Kent, A28
 In country surroundings. Home made pies and cakes.
 Prices under £3-50

Willesley Hotel and Restaurant
 Cranbrook, Kent
 Building of architectural interest. Local lamb. Kent apples and cheese paté.
 Prices from £3-50 to £6-50

The Clifton Hotel
 The Leas, Folkestone
 Kentish chicken pie. Soured herring salads
 Prices from £3-50 to £6-00

Springfield Hotel
 5/6 Westbourne Gardens, Folkestone.
 Home cooking. 'H.G. Wells' bar serves real ale
 Prices under £3-50

King Henry VIII Inn
 Hever, Nr. Edenbridge
 Tudor Inn, near Hever Castle. Game in season
 Prices from £3-50 to £6-00

The Gun and Spitroast Inn
 Horsmonden, Kent, A21/262
 Coaching Inn of 1550. Spitroasting and Spit barbecuing
 Prices from £3-50 to £6-00

San Clu Hotel
 Victoria Parade, Ramsgate.
 Has an interesting collection of aeronautical photographs
 Prices under £3-50

New Flying Horse Inn
 Upper Bridge Street, Wye, Nr. Canterbury, A28
 Dining room overlooks garden. River trout with prawns
 Prices from £3-50 to £6-00

Marriages *Today and always, may God impart His richest blessings to your heart. LOVE that keeps his presence near, FAITH that conquers doubt and fear, TRUST in his all-giving love, HOPE that shines dawn from above, JOY of the enduring kind and ever always peace of mind.*

On Saturday, 19 June 1982 at All Saints Church, Frintsbury, Graham Bird of ISD Engineering was married to Jacqueline Porter.

Saturday 19 June 1982 was also the wedding day of Ann Gilding, a computer programmer in ATE Division, (and holder of Duke of Edinburgh Gold Award). Her Bridgroom was Barry Smith (a Surveyor with K.C.C.) The marriage took place at Holy Trinity Church, Teydell. The organist was Dave Lucas of ADD.

Congratulations to Andrea Leeds and Cliff Tovey both testers in IN Division. They were married on 29 May 1982 at the United Reform Church, Gillingham.

On Saturday 19 June at St. William Church, Walderslade, Jan Daly (Personnel Records) to Steve Moreton a Production Administration Officer in CACD. Sincere wishes from colleagues in Personnel and CACD, for a long and happy union.

Congratulations
 The members of PS Division would like to congratulate Nigel Foan, on his engagement to Christine Breeze; and wish them well in their planned partnership.
 The whole of IS Division extend congratulations to Sonia Champ, of Stock Control Department on her coming engagement to Gary Thompson, an Apprentice (in last year) within ISD Logistics. Sonia has been with the division for 4 years.

Congratulations on success
 We are pleased to record that Mrs. Hilary Webber, who is a Computer Operator with MASD has won the Gold Award of the Duke of Edinburgh Scheme.
 Formerly, Hilary Talbot, she has been with the Company since November 1973.
 On 1 June 1982 she attended Buckingham Palace to receive the award at the hand of Prince Philip, after meeting the Chief Commissioner of the Girl Guide Association.

CHAMPIONS

It is not only the products of Marconi Avionics Ltd., which win world-wide acclaim, but also the exploits of its personnel.

Read on:-
The fifteenth annual World Custard Pie Throwing Championships were held at Coxheath (Nr. Maidstone) on Saturday 5 June 1982.
Marconi Avionics were represented at this years event by three teams from MASD comprising:-

1. The Marconi Muppets – Gary Cordier, Steve Mayes, Dave Prosser (All D.O.) and Peter Reeves (Engineering)
2. The Marconi Morons – Chris Acaster, Dave Golding, Graham Peak and John Williams (All D.O.)
3. The Marconi Misfits – Sue Green, Pat Betts, Linds Cardwell and Wendy Steggall (Library and D.O.)

Despite fierce competition from all of the 69 other teams entered, all of our teams qualified for the second round of throws however it was here that we had to say farewell to the Morons and Misfits.

From here on all hopes were pinned on the Muppets, however they proved unstoppable and walked through to the final with great ease and confidence.

The final against the Flying Dutchmen, a team from Holland provided a fitting end to a hard afternoons competition and help give credence to the World Championship status of the event.

As in the previous stages the all-round skill and ability of the Marconi Muppets team completely destroyed the opposition and after a short delay were declared the winners by over ten points.

Great scenes of euphoria and excitement greeted the result and the team was swallowed up in a crowd of officials, photographers, T.V. cameras and supporters.

So at the end of a great afternoons sport, the Marconi Muppets became the World Champion Custard Pie Throwers at this their third attempt. And next year? They'll be back to defend their title.



The Marconi Muppets receiving the World Championship Trophy.



The Marconi Misfits in action—not only custard pies but happiness abounds.



Though losers, enjoyment is the keynote.

Photographs by courtesy of South Eastern Newspapers Ltd.

New 'Avionics Lab' at Great Baddow

In March 1982, the Avionics Research Laboratory was formed at the Marconi Research Centre, Great Baddow, Essex, with the object of further strengthening long term Avionics research and helping to put it to better use in new products and programmes for our customers, world-wide.

The Manager of the newly-formed Laboratory Dennis Byatt, has joined the staff of Marconi Avionics Ltd reporting to Professor John Shepherd, the Company's new Technical Director.

Neither is a stranger to MAV. Dennis has been responsible for MAV/Marconi research liaison for many years and Professor Shepherd was with the Company prior to becoming Professor of Electronic Systems Design at Cranfield Institute of Technology, near Bedford.

The new laboratory brings together four main research groups – Applied Physics, Sensor Systems, Digital Processing and Displays and Control Systems.

Our picture, taken at Great Baddow shows – "What have we here?" (L-R) Abe Ellis, Chief of Digital Processing and Displays group explaining some details of a programmable signal processing device; Terry Soame, responsible for the project hardware; W.J.R. Clark, Chief Scientist, Basildon; F.N. Adams, Chief Scientist, Borehamwood; Dennis W.G. Byatt, Manager, Avionics Research Laboratory, Great Baddow; D. Hamlin, Future Systems Studies, Rochester, D.C. Price, Technical Manager, Flight Automation Research Laboratories.



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MARCONI AVIONICS 'HUD'S

Monday 7 June 1982, became a special day for the Company AD Division, our customers General Dynamics USA and the Project office of the USAF.

This was the day when the 1000th head-up display for the F16 Aircraft was formally handed over; and a further contract for \$23 million worth of systems was handed over to the Company.

To carry out the handing over of this record-breaking event, the Secretary of State for Industry—Mr. Patrick Jenkin was invited to receive on behalf of the Company, the additional order.

The Secretary of State, travelled to Rochester by Helicopter accompanied by his Parliamentary Private Secretary, Mr. Malcolm Thornton; his Principal Private Secretary, Mr. Jonathan Spencer; the South Eastern Regional Director of the Department of Industry, Mr. G.J. Bradshaw, and Mrs Peggy Fenner MP for Rochester and Chatham.

The party was received by Mr. Jack Pateman CBE, our Managing Director and Mr. Peter Hearne, a Director and General Manager, together with Dr. Edward P. Webb, Vice President F16 Program, General Dynamics, Fort Worth, Texas and General Monahan, head of the F16 Systems project office in the USAF.

No other company in the world has delivered this number of HUD Systems for a single aircraft programme.

The ceremony was held in the new Conference Centre when Mr. J. Pateman CBE presided and after welcoming all guests visitors and representatives of the media invited Mr. P. Hearne, Director and General Manager to outline the importance of HUDs, their development and of the Company involvement in the F16 programme, after which the Secretary of State for Industry—Mr Patrick Jenkin was called upon to perform the handing over.

In the course of his speech, the Minister recalled that this major achievement was no surprise since the Company is acknowledged as the largest world manufacturer, having already completed 4800 HUD Units for 20 aircraft types.

He complimented all concerned in the pioneering of this remarkable system, which is a unique UK achievement and used in aircraft throughout the world. He also reminded the audience that the first units were for the Buccaneer aircraft and have developed extensively until the most recent type LANTIRN is now in production in the Company. These and other successes, such as the 'fly by wire' system help to keep the Company in the forefront, and win customers and defeat the opposition, earning on the way five Queens Awards for Export.

The Minister also touched on the industrial difficulties of the Medway towns, saying how the government were concerned, and offered congratulations and support to such concerns as the Medway Industrial Enterprise Trust, in which Marconi Avionics Ltd is taking a leading role, with Mr. Glyn Thomas, General Manager, as the Chairman.

As the Minister concluded his address, he praised the progressive outlook and activity, the wide ranging skills within the Company, its dynamism and expertise, the application of which augers well for further successes and achievements, bringing pride and well-being to all who are connected in the enterprise.

He then, on behalf of the Company, handed over formally the 1000th head-up display system for use on the F16 Aircraft.

Dr. Edward P. Webb smilingly accepted the unit and with

General Monahan expressed their delight and pride at being associated with this record achievement and also congratulated the Company and its personnel, pointing out that the continuing success in obtaining markets is due to the ability of maintaining the foremost position and giving reliability, innovation, delivery, back up and an economical product.

Dr. Webb then handed over to Mr. Patrick Jenkin the further contract for supplying systems to the total of some \$23 million (£11 million). Obviously delighted at this additional business, and export potential, Mr. Jenkin then handed it over to Mr. Pateman, for its fulfillment.

To mark the occasion the Managing Director then presented silver replicas of the system to Mr. Jenkin and to Dr. Edward P. Webb.



The presentation replicas, showing caption.



Mr. Patrick Jenkin (left) calling upon Dr. E.P. Webb (centre) and General Monahan (right) to receive the unit.



The formal handing over.



Mr. Jenkin passes on the new contract to Mr. Pateman.



A silver replica of the HUD is handed to Dr. E.P. Webb.

SYSTEM LEADS THE WORLD



The General Dynamics F-16 Fighting Falcon is an outstanding manoeuvrable and versatile fighter with a maximum level speed in excess of Mach 2, a service ceiling greater than 50000 ft and a radius of action in excess of 500 nautical miles. Ferry range exceeds 2100 nautical miles. F-16 aircraft are currently in service with seven air forces, the biggest operator being the USAF. Four European NATO countries operate the aircraft: Norway, Holland, Belgium and Denmark. (Picture produced by courtesy of General Dynamics Corporation)

Marconi Avionics record-breaking 'HUD' systems

HUD, the avionic systems which present to a pilot an image of computer-generated symbols, as he looks ahead through the windscreen, are central aids to piloting, navigation and weapon-aiming in high performance aircraft.

Marconi Avionics, whose first HUD, for RAF Buccaneers, is still in service after 21 years, has now produced nearly 5000 systems for 40 different types of aircraft. This exceeds the rest of the world's combined production. Nearly all the Company's output has been for aircraft produced outside Britain, notably the United States.

The system for the F-16 was first ordered into production in 1976 and is now in service with seven operators, the first and largest being the United States Air Force.

Under the terms of the F-16 co-production agreement, Oidelft, Holland, and Kongsberg Vapenfabrikk, Norway are producing elements of the system under sub-contract. As contractor, Marconi Avionics is responsible for the design, production and supply of complete HUD systems.

In terms of the electronic systems which are for installation on civil and military aircraft, as distinct from other types of capital electronics, avionics represents 15% of the United Kingdom's aerospace product and nearly 10% of the nation's total electronics output.

The competitiveness of British avionics in world markets is thus an important factor for restoring the deficit in the electronics trade balance, which Mr. Patrick Jenkin recently described as 'totally unacceptable'.

Marconi Avionics has now supplied avionics worth in excess of £1.3 billion over the past decade, more than half of Britain's total output. Despite increasing world competition, the percentage of exports has been raised during the past year, from 41% to 54%, a 30% increase.

For the record

The NEDC in its document 'Policy for the UK electronics industry' 1982, quotes Britain's 1980 output of electronics as £7.7 billion and the trade deficit as £300 million.

It also claims 500 000 people employed, giving an average output/head of £15400 per annum. In that year, Marconi Avionics' output/head was £19400 per annum.

Marconi Avionics employs 12000 people in factories in the Rochester area and in Herts and Bucks, Essex, Middlesex and Avon. It has created 4 000 jobs since 1977.

Marconi Avionics delivered its 1000th HUD for Vought A-7 air-

craft in 1974 and expects to hand over the 2000th for that aircraft (another record) later this year.

Marconi Avionics handed over to the United States Air Force last month the first of a new kind of HUD, based on holographic optics, for which production options are worth \$100 million. It is destined for F-16 and A-10 aircraft of the USAF.

The Company also has a \$5 million dollar development contract for a new range of aircraft computers for the US Air Force and US Navy for which production worth many hundreds of millions of dollars is forecast.



The Marconi Avionics head-up display is a central feature in the cockpit of the General Dynamics F-16 fighter. In use throughout every phase of flight, it provides the pilot with information for piloting, navigating and weapon aiming.



With the Marconi Avionics head-up display (HUD), pilots of the General Dynamics F-16 'fighting falcon' see a display of symbols, representing instrument readings, in focus with their view of the outside world. This enables them to fly safely and accurately without having to look down at instruments. This picture is a reconstruction, showing how Airport Works, Rochester, would look during an F-16 landing approach.

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RETIREMENTS

Another IN division worthy, who has retired is Mrs Lily Sturla, who worked as a viewer in IN Inspection. She has spent some 13 years with the Company, first in TAC and then in IN, both divisions in the capacity of viewer.

To mark the retirement, friends and colleagues contributed to provide a rose bowl and figurine. She reports that her time will not hang heavy on her as she delights in looking after her grandchildren (three boys and two girls), together with knitting and gardening.

Married, (her husband works for the Company also in FCD Hydraulic Lab) she has two sons, one of which is a GPO engineer, the other, a self-employed builder.



Mr. D. Evers, Divisional Manager makes the presentation of the figurine. (D)

After a period of 20 years and one of a large family contingent of employees, has called it 'enough'. IN Division has said farewell to Mrs. Fullagar, on her retirement, and to mark the occasion she received a set of crystal figures and a vase.

Her personal connection began in R & R Division, progressing on to the old original ADD then into TAC on wiring. For the last 10 1/2 years she has been in IN Division, mostly in Stores Department. The family total at this time is 98 years of service. Her husband is Production Controller in MASD who has contributed some 34 years to the total.

Her industrial life goes back pre World War 2, when she worked in a collar factory in Brompton, then during the war years she was in the dockyard.

Married with a son and daughter, she looks forward to taking up her pleasures in life which include swimming, gardening and cycling! (Husband has rebuilt her cycle to give her encouragement!). Taking up cycling is a return to an old love.

All friends and colleagues combined to wish her a happy and long retirement.



Mrs. Fullagar. (D)

25 YEARS' SERVICE



Tony Panzeri. (A)

A former Shorts apprentice, who saw war service in East Africa and on returning home took up the family business of 'Restaurateur' at Heme Bay, east in his lot with Elliott Bros. in 1957, and has now completed 25 years unbroken service.

Tony Panzeri, began his association in R & R as a fitter, later joining the Model Shop and served therein as an Inspector. Transferring to TAC Model Shop, he was on the TSR2 development and on the cessation of TSR2 he joined Fuse Division as an Inspector, becoming Inspector-in-charge of Filters at the Flying School. When Fuse moved to Portsmouth he became a member of Inspection Department within GYRO Division.

Well known as a person, his perennial cheerfulness is a tonic

to all who know him (except the very first thing in the morning!) A man of good works, the Medway Towns knows him as the Chairman of the Medway Mentally Handicapped Society—and fund raiser extraordinaire!

A married man with two sons, one daughter and three grandchildren, his eldest son is a CPO in the RN.

When other activities permit, Tony is to be found enjoying life 'doing the garden'. With a twinkle in his eye, he is proud to announce that he has 'kicked' the smoking habit.

His selected gift was a pair of binoculars.

John Harrison seen receiving a carriage clock from Mr. G.R. Sleight to mark his 25 years service, is the Engineering Services Manager in ADD.

John was apprenticed as a watchmaker so the gift to mark 25 years is somewhat appropriate. He came to the Company in May 1957 to Aviation Division as a Technician, and in 1958 was made a TA. He went to ATE in 1959 in the same capacity, then in 1961 became Project Supply Officer, and in 1962 was a Development Engineer in the same division, and 1964 saw him as Sales Engineer within the division. 1965 saw him transfer to PTE Division and as a Sales Engineer he served DAD in 1966, until returning to ATE as Sales Engineer in 1967.

His association with ADD began in 1967, and in 1968 became Asst. Project Controller within ADD progressing onward to Project Administration Officer, Project Controller, until in 1978 he took up his present role.



John Harrison. (A)

LEAVING

Wendy Bristow, who was the confidential Secretary to Mr. Malcolm Moulton, the Company Information Executive, as well as being the Assistant Secretary to the Medway Branch — Aeronautical Society has recently left the Company.

Her friends and colleagues contributed to a present of a brief case to mark her departure, wishing her every success in her new sphere of activity.

She had two spells with the Company, having first joined in 1964, working within TAC, then after an absence rejoined in 1972, as a Clerk Typist in Personnel Records, and in December 1973 became a Secretary to the Personnel Officer of Production section and in 1980 joined Mr. M. Moulton as Confidential Secretary.



Wendy with Mr. Moulton who made the presentation. (A)



Wendy surrounded by her 'Top Floor' colleagues. (A)

Suggestion Scheme

At the May meeting of the Suggestion Scheme Committee many suggestions were considered.

An award was made for a suggestion concerning a possible aid to carry out a functional test on 75 DR 60004 and 75 DR 50005 Hybrids, to Mr. B. Terry of IND Test who received a cheque for £78.47.



Mr. Terry with his device.



A Drake on the Medway

I was fascinated to learn recently that Sir Francis Drake, a name synonymous with Plymouth as hops are to Kent, acquired his seals, not in and around the waters of Plymouth, as I had long since imagined, but actually here in the waters of Kent.

Francis, as a young boy, lived with his parents on an uncle's farm at Crowndale, near Tavistock in Devon. His father, Edmund, in keeping with a long standing family tradition, had experienced working both on land and sea but by 1549 had settled down as a farmer and lay-preacher.

In the aftermath of Henry VIII's death there ensued much religious conflict between the Roman Catholic and Protestant Church, with Devon emerging as predominantly Roman Catholic. In view of such a situation Edmund, a staunch protestant, for fear of persecution, decided to take the family away from their native home.

So it was that when Francis was about four-years old, the family, for reasons better known to themselves, came to Gillingham and there settled in the only accommodation available—a hulk, moored on the Medway. For several years the family lived in poverty; Francis became the eldest of the eleven brothers and Edmund Drake eventually became chaplain to the new naval base at Chatham.

At the age of ten, Francis was left in the care of a local pilot with whom he was to serve a seven-year apprenticeship. During that time he guided ships in and out of the Thames and Medway; transported cargoes from both Kent and East Anglian ports; and made the occasional trip to the continent.

In 1561, Francis's father became Vicar of Upchurch and supposedly transferred the family away from the river, (though it is not known to where). This period was also to prove a turning-point in the life of the young Francis for, at the age of 17, he was left both the business and the vessel upon which he had served the last seven years—the old pilot having died childless.

For a short while he continued the business before finally selling everything and returning to his native Devon, where he joined his cousin, John Hawkins, a merchant adventurer.

No doubt between nautical escapades he had reason to return to the waters upon which he had spent his youth. He was certainly present in 1588, when, following the defeat of the Spanish Armada, he and Hawkins were asked to supervise the Fleet at Sheerness against an outbreak of typhus.

It was as a result of his experiences at this time that the Medway Towns can best be identified with Sir Francis, for it was then that both he and his cousin founded the Chatham Chest—a fund for the relief of sick and destitute sailors; an institution which was to continue for over 300 years, well into the 1900's. Indeed, though the Chest has long since been removed to Greenwich, it is still very much a part of the Medway Towns for it has been adopted by Whitbread-Fremains as the name for their public-house on the New Road, Chatham. Inside, occupying a prominent position amid a pleasantly furnished interior, hangs a replica of the chest's lid—a symbolic reminder, perhaps, of a time when once a young boy, destined for national recognition, acquired his elementary skills here on the Medway.

C.F. Hansford

Dunfermline Abbey



Dunfermline Abbey was founded around the year 1070, when King Malcolm III and Margaret, his queen, founded a Benedictine Priory on the site. Dunfermline was then capital of Scotland, with a fine castle, but over 900 years later many things have changed. The castle has gone, and the national lighthouse has been stolen by Edinburgh to the south—only the abbey remains.

Today, all that can be seen of the original Priory are its romanesque interior pillars, as each age and facet of a colourful history has added its own superceding style. But the building that houses the remains of Robert the Bruce has not completely forsaken its role as an important seat of culture, in June this year it will once again be a focus of national attention.

A unique competition was staged in the Abbey as part of the first ever Dunfermline Abbey Festival. The organ playing competition—the first in Scotland—being the highlight of the week of singing and music, and it was sponsored by MSDS, our sister company. Other attractions included organ recitals, local choirs, exhibitions and a Scottish evening in Pittencrieff Park with Moira Shearer, Tom Fleming and Clifford Hughes. The festival ran from Saturday 20 till Saturday 27 June.

WHO'S LEFT?

In view of the current financial crisis the following figures may be of interest.

Population of country	54,000,000
People 65 and over	14,000,000
Balance left to do work	40,000,000
People 18 and under	18,000,000
Balance left to do work	22,000,000
Union members	9,000,000
Balance left to do work	13,000,000

Armed forces	2,300,000
Balance left to do work	10,700,000
Civil servants and local government officials	9,800,000
Balance left to do work	900,000
People who won't work	888,000
Balance left to do work	12,000
People in prison	11,998
Balance left to do work	2

You and I must therefore work harder, especially you, as I am fed up with running this joint on my own.

Sports and social club round up

For your diary

GOLF SOCIETY

In the Tri-site competition held at Brooksmack Park G.C. on 4 June 1982, Basilidon team ran out the winners, with Borehamwood second and Rochester third.

The next Tri-site competition will be between MSDS Portsmouth, MSDS Frimley and MAv Rochester and will be at Mannings Heath G.C. on 13 July.

Captains Day at Sittingbourne G.C. on 24 June was destined to be a successful day by the thoughtfulness of the Captain, Peter Jordan, who skillfully sited a barrel of beer, adjacent to five greens/tees. The outcome of the play was a win for Peter Fowler with 69 Stableford points playing off 18. Second was Ron Scovens with 66 points off 11 while Paul Tucker came third with 67 points off 16 and Mike Thorburn was fourth with 65 points off 9.

Aif Harrison MBE Cup (Singles KO)
Three players have so far reached the quarter final stage, they are Roy Nicholas, Paul Tucker and Guy Boakin. The five remaining games have yet to be played.

Durrant Cup (Doubles KO)
Due to reticence, all 2nd round games have yet to be played. It appears that all competitors are waiting for the allotted time to run out before committing themselves.

Come along gentlemen! Let us ascertain speedily who are the quarter finalists!!!



Inter Divisional League Positions			
Group A	Played	Group B	Played Pts
ADD 'A'	3	12 PSD/FARL	3 11
ISD 'A'	4	12 AS & RD	3 10
ATE 'B'	3	6 CACD	4 9
MASD	3	5 ATE 'A'	3 5
FCD	4	5 ISD 'B'	3 4
IND	3	4 MAv Services	1 1
ECV	4	4 ADD 'B'	3 0

SAILING SECTION

Blackwater '82

The annual sailing match between the Marconi Sailing Club (MSC) and MAv (Rochester) took place over the spring bank holiday weekend in hot, sunny weather. This year the meeting coincided with the Marconi Ragatta, a nationally famous sailing event attracting some 200 boats. Thus instead of a sleepy scene on a quiet estuary the visitors found a flock of campers, beer tents, a disco and a parade of the latest bikini fashions.

The change in mood was reflected into the sailing and the fit

young men in their Lasers dominated the racing. There were two races, the first a private race between the Rochester team and the MSC team, the second was integrated into the practice race for the regatta.

In the first race Terry Gauden in his first ever race was one of the two Hornets to lead the way upwind against a slack tide and then to bear away onto a fitful run followed by a reach dominated by wind shifts as the easterly wind tried to establish itself. The MSC Hornet finished first on the water but Peter Belcher from Rochester led the Lasers to win on handicap. Last years winner Richard Stone had a poor start and finished fifth whilst the old hands, Ron Greygoose and Gordon Belcher, in Enterprises, were seventh and eighth just beating Dave Jibb, Paul Barrett and Chris Hodson who were lifted by the sea breeze to catch up two hundred yards on the penultimate leg.

After the lull came the storm; the second race saw the majority of the fleet in the medium fast handicap regatta race. Starting close and pulled through the fleet to be second in the interclub race followed by three Marconi Lasers. The Enterprises fared badly; the best, Ron Greygoose was seventh whilst Gordon Belcher was eighth after hitting two boats and going aground twice on the first leg as he tried to keep out of the tide.

The overall results showed that Rochester had retained the Colwyn Stone Challenge Trophy though Marconi had the lower total team score. Joan Stone presented the trophy to Peter Belcher with last year's winner, Richard Stone, second. Most of the dinghy men then beat a hasty retreat to leave the campers to the mercy of the disco fiends and the beer tent aficionados. Those who stayed over for Sunday saw a record 211 dinghies enter for the days racing.

The cruiser men were there again but in less strength. President of the Marconi Sailing Club and Managing Director of Marconi Avionics, Jack Pateman, had no crew for Oenanthe, his 31R Golden Hind sloop. Malcolm Moulton and 'number one son' Robert reluctantly left their Macwester 26 'Centaurina' at Conyer this year, to make up a crew for Oenanthe. Plans are now being made for the Marconi Sailing Club cruisers to visit their Club's President this summer on the Medway, a welcome return visit.

Results		
1st	2nd	3rd
P. Belcher	R. Stone	S. Perkins
Laser	Laser	Laser
Rochester	Rochester	MSC
4th	P. Christie	G. Mead
Laser	Hornet	MSC
5th	R. Woodson	R. Greygoose
Laser	Enterprise	Enterprise
6th	G. Belcher	G. Belcher
Enterprise	Rochester	Rochester
7th	D. Jibb	C. Hodson
Enterprise	Laser	Laser
8th	MSC	MSC
9th	P. Barrett	G. Mead
Enterprise	Enterprise	Enterprise
Rochester	Rochester	Rochester
10th	T. Caswell	T. Caswell
Enterprise	Rochester	Rochester
11th	R. Moulton	R. Moulton
MSC	MSC	MSC

Gordon Belcher

Sports and social club round up

Inter divisional darts and cards finals night results



CMS 'A' darts team winners.



Model Shop 'B' darts team runners up.



L-R, Barry Fever and Pete Williams, darts pairs winners.



L-R, Roy Hanson and Ron Tilbury, darts pairs runners up.



Euchre team winners, CAC.



Euchre team runners up, ATE 'A'.



L-R, Mick Blackman and Duke Ferris, Euchre pairs winners, Model Shop 'B'.



L-R, Harry Field and Dave Pritchard, FCD D/O, Crib pairs winners.



L-R, Dave Saunders and Barry Shallcross, ATE Eng., Crib pairs runners up.



AS & R 'B' Combination and Crib team winners.



AS & R 'A' Combination and Crib team runners up.

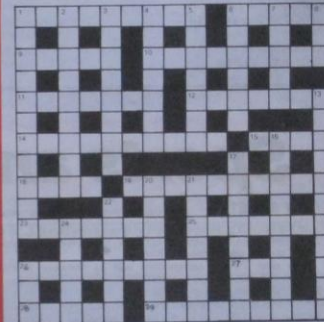


Athletic Section

PROGRAMME

Date	Fixture	Venue
July 24/25	AAA championships	Crystal Palace
25	Colts and boys league of Kent—reserved date	Erith
30/31	Kent womens league	Bromley
31/Aug 1	WAAA championships	Crystal Palace
1	AAA under 20 championships	Cwmbran
August 7	Young athletes league	Rochester
7	Southern league Division 1	Erith
	Division 6	Crystal Palace
14	Southern decathlon championships	Crystal Palace
	Shaftesbury/LBH "10"	West London
15	GRE Cup—semi final	Crystal Palace
18	LBN relay championships	Birmingham
21/22	CAV championships	
30	Erith Show	
Sept. 4	September Shield—heat	
4/5	Kent decathlon	Bromley
5	Kent womens league	Folkestone
19	GRE Plate—final	Hendon
25	September Shield—final	
	London Transport CRS road relay	Kenton

CROSSWORD No. 43



ACROSS

- Correct attitude (9)
- You put it on to stop (5)
- Twelve if not a baker (5)
- Could be a child's or a sugar daddy's (9)
- Full of life and energy (2,3,2)
- Strong and loyal (7)
- What the United Nations should do (7,3)
- Don't let a tiger do it to you (4)
- Side of the road (4)
- They go out in the mid-day sun with dog (3,7)
- East European country (7)
- The view purists don't like (7)
- The broadcaster maybe (4,2,3)
- A spirit measure (3)
- man made fibre (5)
- treason is a form of (9)

DOWN

- Drop it, its too hot to handle (3,3,5)
- Useful in conjunction with atlas (9)
- A sore spot differing from the other (8)
- What was done, to make a quick quid (7)
- A Welsh town bird with ocean (17)
- Robin's boss mate (3,3)
- The Germanic purity race (5)
- Dreaded ice mass heaved (3)
- The teachers 'rest', or early closing (4,7)
- The Greek philosopher (9)
- One without faith, or so he says (8)
- Determined, with foot firmly planted (7)
- Custodians of law and order do it (7)
- Maybe instinct, or hereditary (6)
- Miss Malone to some (5)
- Cigarette smokers should watch its content (3)

SOLUTION TO CROSSWORD No. 42

ACROSS

- Last train, 6 Caper, 9 Viola, 10 Newcastle, 11 Make out, 12 Egg flip, 14 Taskmaster, 15 Pipe, 16 Haah, 19 Ramshackle, 23 Sea slug, 25 Up front, 26 Spearpoint, 27 Actor, 28 Dealt, 29 Greatness.

DOWN

- Love matches, 2 Stockists, 3 Tea rooms, 4 Annettes, 5 Nowhere, 6 Change, 7 Petal, 8 Roe, 13 Present Arms, 16 Ink bottle, 17 Half past, 20 Angling, 21 Scuttle 22 Fioret, 24 Arena, 26 Sate.

Photographs taken by the Staff Photographers will be acknowledged in the following way: (A) Alan Kaste, (B) Linda Jones, (C) Reg Hunt and (D) Asher Mansfield.

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