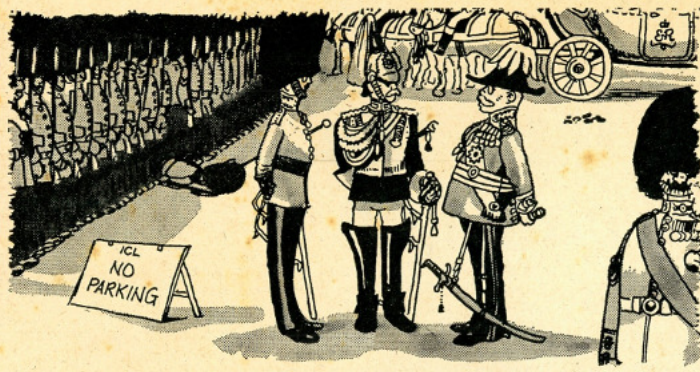


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What's going on here... and here



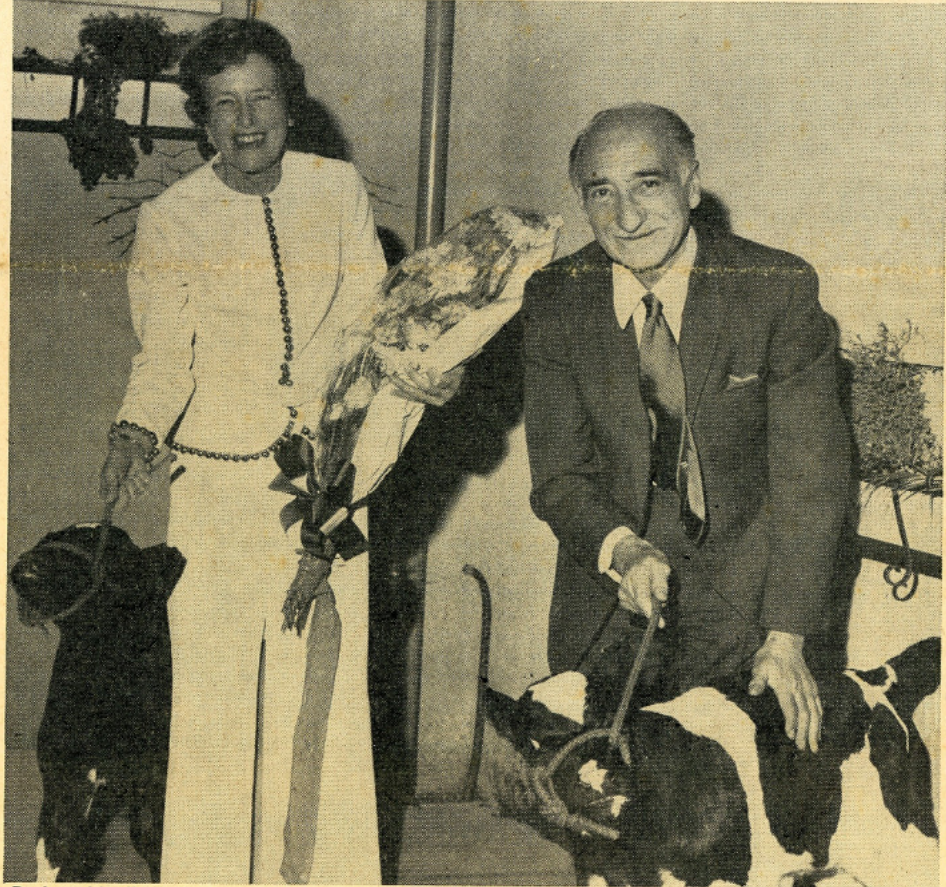
The answers are on pages five and seven.

And now— calf love for Les and Doris

ET Nimms and Prosper, ICL's latest offerings in software—not software, as you might have thought. They twin Friesian calves presented by the company to leasing sales executive Les Herbert at Exeter last month. Les moved to Western Devon a year ago and bought a 10-acre farm at Coleford, Crediton, for his two boys, Raymond—who rears sheep—and pig farmer Norman. The family are still building up the herd. Nimms and Prosper bring the stock up to 38. Les's wife Doris, working as secretary in our Exeter office, says a farewell present in the form of livestock was her husband had really in his heart on.

Dignity

One in the office knew a bit about buying cattle, so Les and Doris were invited to pick out two fine Friesian heifers. They were followed an uncomfortable drive to the hotel for the presentation to the boys, their girl friends and the other guests. Despite white coats and evening dresses and lounge suits, there were one or two casualties on the 4-hour journey. After a dinner for 35 colleagues and Les's family, ICL director Mr Lyon presented Les with a cowbell—a fine antique, said Doris—suggested the company turn to the patio. When the two boys led the calves and Prosper in from the stable where they'd been kept for their moment to shine. What was that for a cabaret? The two creatures reacted with great dignity to the applause. Even when the lady guests hugged them there were no cowslips. Though not yet three weeks old the twin calves drink straight from a bucket and are settling down happily on the farm with their adoring father.



Doris and Leslie Herbert with Nimms and Prosper.

U.S. TOLD 'FACE YOUR RESPONSIBILITIES'

CALLING FOR a professional ethic for the computer industry, ICL Chairman Sir John Wall told the Sprague Joint Computer Conference in Atlantic City, New Jersey, on Tuesday, May 18, that the American computer industry carried a very special burden.

Giving the keynote address on "Responsibility," he said America dominated the computer industry of the world; "And if you dominate you have the greater responsibilities."

He suggested there was a general feeling that the American computer industry was not facing its responsibilities to the international community.

As an information processing industry it could affect the dignity and rights of individuals; the independence of countries; the freedom of choice of consumers... but it had the same capacity to increase the wealth and happiness of mankind.

The response of the industry is "shamefully slow" said Sir John.

He feared it was allowing the initiative to pass out of their rightful hands into those of Government and other organisations, too often of a "do-good" nature.

They must agree that the dangers and risks of erosion of the individual's privacy were not just a newspaper scare, by ensuring that computer systems containing confidential information about people did not divulge it to all and sundry.

The industry needed an "ethical model", for example "professional certificates which can be revoked, and a central council to collect information and to issue judgments in cases of abuse brought to its attention by credit agencies, Governments, companies or individuals" with constructive actions not defensive ones or

SIR JOHN WALL CALLS



FOR COMPUTER ETHICS

white-washing. Sir John said he believed technological independence for a country as much as political kind, and he drew a parallel between the American Empire today and British one of a century ago which began as a commercial and industrial network like USA now.

"Are you sure the American Empire will not end up as a political system?" he asked

Continued on back

DOUBLE TOP

Award for technological innovation and exports

ICL has followed up its Queen's Award for technology with a double in 1970—for technological innovation and for exports. The factors leading to success in the field of technology are almost as sophisticated as the sophisticated techniques that produced it. Much of the credit for part of the award must go to the 3,000 assorted specialists and skilled workers at West Gorton, whose effort produced the

1906A and S, the most powerful computer in the company's 1900 range. The 1906A and S were largely designed—and are now being largely produced—by other ICL computers. The intricacies of the 1906A and S are such that complex programs are needed to produce the best way of designing these computers. This system allows the designer to state his needs in terms of pictorial logic or boolean algebra. The job of optimising the layout and wiring for best performance is

then left to the three design computers at West Gorton. The other part of the double was due to our export achievements. During each of the last three years the company has done more and more business abroad, grossing £36m for exports in 1970. Our equipment is used in more than 50 countries and the main trading areas abroad are in Western and Eastern Europe, Central, East and South Africa, India, Australia and New Zealand. A significant amount of ICL equipment is also exported to

Hong Kong, Egypt, Malaysia and Nigeria. Users include all kinds of industrial and commercial organisations—central and local government and universities. One reason why ICL computers sell well is that not only do they work quickly but they can be quickly installed. For example, in Holland four powerful systems were installed during the month of October for four separate customers. Only 50 awards have been made jointly recognising export and technological achievement.

Why we are matching resources with needs

SINCE THE merger between ICT and English Electric in 1968 to form ICL, the total number of employees has been too high for economic operation. However, it was hoped that the combined factors of rapid growth in orders, limited recruitment and the normal departures of staff would enable the company to overcome this problem without having to declare redundancies. The order book—reflecting the world economic situation—has not grown as rapidly as was hoped. It has been necessary, therefore, to examine all parts of the company in relation to tasks and resources. The results of these studies will be reported by organisation managers and when decisions as to any further redundancies are made, staff will be informed immediately. At Croydon, for example, redundancies have

been announced in two stages. One announcement was made at the end of March and another on May 19, when a further 800 redundancies (including management staff) were made known. Production at the Croydon factory is still going but about 200 will continue to be employed there on those activities it is not expedient to transfer to other factories. ICL is increasing its market share in the U.K. and in most areas overseas and will, by vigorous streamlining, be in a position more efficiently to exploit the future market and sustain its planned and continued growth. Economists firmly believe that the slowdown of the rate of growth in the market for capital goods, including computers, is temporary. There are already indications that the U.K. market for computers will return to normal within 12 months.

our personal announcements

engagements

Congratulations to:
AL, Margaret, of Administration, North Eastern Region Leeds, on her engagement to David Harris, on April 15.
RNIE, Linda, secretary in the personnel department at Winsford, on her engagement to Mr. W. Gaunt.

marriages

Congratulations to:
FRANKINS, Clive, a Liaison Engineer with Dataset, who married Miss Lynda Freeman at St. Mary's Church, Hitchin, on April 24.
SHISHAMURTHY, N. V. of quality control department CIM, Bangalore, who married Miss Mirmala on February 14.
NSCOMBE, F., foreman in the customer engineer in New Delhi, who was married on February 27.
WICK, Susan Ann, of the Leeds Customer Centre, who married Paul Veillette at Wrangthorne Parish Church, on March 20.
NSCOMBE, F., foreman in the termprinter shop, Winsford, who married Miss S. Colman on April 16.
SPENCER, Patricia, purchase order clerk with Dataset at Stockport, who married Robert Simber at St. M. Ambrose's church, West Didsbury on March 27.
AHAM, Dorothy, a card crafter at Letchworth who married Tommy Corr at Hitchin registry Office on March 5.

births

Congratulations to:
INDASWAMY, Y. a peon, in Mr Madras office and his wife on the birth of a son on March 12.
SPHENS, Mrs Jocelyn, secretary to the project manager at Bangalore factory, and her husband on the birth of a daughter on March 7.
THABHI, R., a customer engineer based in Madras and his wife, on the birth of a son, on April 23.
SHINANI, T. R. S., secretary to the public relations officer, Bombay, and his wife, on the birth of a daughter on April 24.
SHI, S. K., assistant accountant at ICL India head office, and his wife, on the birth of a son on April 12.
BRISON, Alan, computer engineer in Belfast, and his wife Patricia, on the birth of a son, Philip Alan, on March 13.
INDAKUMAR, M. Shingre, a clerk in the accounts department at Bombay, and his wife Shubhaya on the birth of a daughter on March 4.
INDIESWARAN, A., outstation engineer at Trivandrum and his wife on the birth of a son, Sri Lakshmanan.
EER, David, Senior programmer, Leeds Tyne/Tees Area, and his wife Christine, on the birth of a son, Damon Paul, on March 15.
LISON, John, computer engineer in Liverpool Region and his wife Yvonne on the birth of a son, on March 21.
WADE, John, team-leader in the software library at Friar St., Exmouth, and his wife Doreen on the birth of a son, Anthony, on April 21.

retirements

Wishes for the future to:
LSTED, W. S., of Marketing group at Putney who retired on April 20 after 25 years' service.
FRANCO, Benjamin, Inspector at Winsford, who retired on March 5 after 26 years' service.
WILLIAMS, William A., a driver at Aurelia Road, Croxson, who retired on May 4, after 12 years' service.
ESWORTH, J. L., of I/LI factory, Letchworth, who retired on April 12 after 25 years' service.
FRINTER, R., of A.L.S.D., Reading, who retired on February 26 after nine years' service.

DEATHS

Condolences are expressed to the families of:
WACON, Warwick, a company pensioner who died on April 3.
WACON, formerly manager of commercial services department at ICL House, Putney and had a company car, who died on 13 days before his retirement in March 1969.

Classical music moves into the canteen

THE FIRST concert promoted by "Music and Industry", a movement to popularise serious music which is the brainchild of Tim Woolford, of group purchasing, Stevenage, was held in the 5/6 canteen, Stevenage on May 5.

It was sponsored by the Stevenage Sports and Social Club, chaired by Frank Jennings of the purchase planning department.

Though there was not a full house, the audience were pleased and many have asked for similar concerts to be held in the future.

With artistes like Eva Bernathova and Leonard Friedman playing there is no doubt that the concert was of international standard.

Scheme

At a recent composers forum in Glasgow, Luciano Berio, one of today's leading composers, said he believed the concert hall was becoming outdated, and that music should be brought to people from a different platform.

It was this idea that inspired Tim to spend much of his recent leisure time working on a scheme to bring music and industry together in factory halls and canteens.

The concert included two short pieces from Janacek's Suite for piano, "The Overgrown Path", played by Madame Bernathova. Her performance left no doubt of why she is acknowledged as one of

the greatest living exponents of her native Czech music.

She was joined by Leonard Friedman for performances of Beethoven's Spring Sonata, No 5 in F major, and Mozart's Sonata No 7, also in F major.

Leonard Friedman was also the soloist in a group of three pieces "Liebesleid" and "Praeludium and Allegro" by Kreisler and "Humoresque" by Dvorak arranged by Kreisler.

These pieces were received with such sincere enthusiasm that Kreisler's "Rondino" was played as an encore.

To complete the programme, Miss Sheila McGrow, a young artist from Scottish Opera, sang the "Waltz Song" from German's Merrie England, "Vilja" from Lehár's "The Merry Widow" and Norina's aria from Doni-

zetti's "Don Pasquale", all of which are well known and loved.

During the early part of the concert Miss McGrow showed what a fine singer she is with two rarely performed songs by the French composer Duparc, "L'Invitation au Voyage" and "Chanson Triste."

Her recital was completed by singing three tonadillas of Granados. Both Miss McGrow and Leonard Friedman were accompanied by Miss Clair Sims.

"Music and Industry" would be pleased to promote concerts anywhere in the country, either in canteens or local halls. Anyone interested should contact Tim Woolford, at group purchasing, Stevenage.



MAKE YOUR CAMERA PAY

EXTRA PRIZEMONEY and new trophies can be won in this year's ICL News photographic competition.

The competition recognises that colour films are now predominant in holiday photography and in two sections black and white and colour entries will be accepted.

In addition a prize of £10 will be awarded to the section

winner judged to have taken the "picture of the year."

The five sections are:
 A Monochrome Views—black and white prints only
 B Colour Print Views
 C Colour Transparency Views—slides only
 D Portraits—entries accepted in black and white prints, colour prints and slides
 E Holiday Humour—(snap-

shots of humorous subjects that exemplify enjoyment on holiday) open to entries in black and white prints, colour prints and transparencies.

This year there will be cash awards of £5 to each section winner and £3 to the runner-up, subject to there being sufficient entries of a reasonable standard.

Trophies will also be awarded to section winners from whom an overall winner will be named for the £10 prize.

Competitors must be employees of ICL, or a member company of the ICL Group, or the husband, wife or child of an employee. Up to two entries are invited from each competitor in each or any of the five classes.

Prints and/or transparencies must be the work of the person submitting although not necessarily processed by the competitor.

They must have been taken during 1971 and the maximum size of prints entered must not exceed wholeplate.

Details

Company employees must ensure that their name, division and company location accompany each entry, in the case of members of an employee's family entering the competition, the relationship must be stated and the employee's name, division and company location given too.

Details of the subject—title, location and any other relevant information—should be included with each entry.

Entries may be submitted at any time, addressed to: The Editor, ICL News, ICL House, Putney, London, SW15, and marked (Photographic Competition), but they must arrive before November 30, 1971.

Though every care will be taken, no liability can be accepted by ICL or company employees for any loss or damage that may occur to entries in transit, storage or in being displayed for judging.



Bill Grimmond, assistant manager DPEO, Stevenage, with the student apprentices after the prizegiving at Letchworth.

Student apprentices collect certificates

TWENTY-ONE ICL student apprentices who completed their student-ships were presented with their certificates of training by Mr. W. Grimmond, assistant manager of Data Processing Equipment Organisation, at ICL's Engineering Training School at Letchworth.

These are the successful students, their degrees and where they are now working in ICL.

Christopher Angus, B.A. (Hons.) mech./elec. sciences, Cambridge; Engineering Information Services Branch of Peripherals Development, Stevenage (EISB-PD).

Neil Bardell, H.N.D. elec. eng., Letchworth Coll. of Technology; Computer Systems Development, Stevenage (CSD).

Richard Bishop, B.Sc. mathematics, Imperial Coll.; CSD, Stevenage.

Trevor Bluck, B.Sc. (Hons.) elec. eng. City Univ. (upgraded technician); CSD, Stevenage.

Nigel Bufton, B.Sc. (Hons.) eng. mathematics, Southampton Univ.; EISB-PD, Stevenage.

David Brittle, B.A. (Hons.) mathematics, Oxford; Research and Advanced Development Organisation, West Gorton, Manchester. (RADO).

John Copley, B.A. (Hons.) business studies, Hatfield Poly.; Accounts, Stevenage.

John Dunleavy, B.Sc. (Hons.) elec. eng., Imperial College; RADO, Stevenage.

Arup Dutta, B.Sc. (Hons.) mech. eng., Hatfield Poly.; Peripherals Development, Stevenage (PD).

Christopher Harris, B.Sc. (Hons.) mech. eng., Bath Univ. of Technology; CSD, Stevenage.

Jocelyn Hartland-Swan, B.A. (Hons.) natural sciences/physics,

JOHN SHOWS WAY

JOHN CHURCH, assembly shop foreman, has recently relinquished his position as chairman of the ICL Winsford Appeals Fund Committee after a great effort.

Since the committee was formed in 1968, members of the staff and works at Winsford have contributed

£600 to the fund for distribution among local and national charities.

Much of the success of the Fund has been due to the enterprise and energy of the committee under John's leadership, and it is hoped that the fund will continue to prosper in the future.

French publisher uses Letchworth photo-typesetting

THE FIRST major non-ICL customer to use Printing Services is Editions Techniques, a leading French publisher of text books and reference books.

This contract backs up the company's claim that the computerised text editing and photo-typesetting system, which was installed last autumn, made the Works Road, Letchworth factory one of the most modern and efficient industrial printing set-ups in Europe.

Editions Techniques, which owns one of the largest French printing concerns, Primerie de France, is an established ICL customer, and has 1902A.

One of the French company's most important productions, which is printed for the French Government, is a volume of a legal cross reference used by lawyers to look up previous

case histories.

Editions Techniques had already sorted and assembled the material and transferred it to the computer system, but decided to go a stage further and produce a magnetic tape suitable for driving a photo-typesetter.

Such a process completely eliminates the need to re-keyboard the text of the book.

And it was at ICL Printing Services that the process was carried out. The French company's magnetic tapes were converted and the vast mass of legal material was set on the Linotron 505 system in preparation for the actual printing in France.

The computer system was developed by Printing Services with the help of ICL Print International, part of the company's overseas sales force.

TREADING IN CHARLES FOOTSTEPS

ON THE boards made fair by Prince Charles when he was at Cambridge, ICL's amateur group from Letchworth carried off the Caddu Schweppe silver trophy at Cambridge Drama Festival.

The Letchworth group had a dozen other plays performed by amateur groups through Cambridgeshire and Bedfordshire. Their winning contribution was the graveyard comedy "Rise and Shine" by A. Cadogan.

Former winners of the C. Mead award—for ICL's festival of one-act plays—the group also won third place in the main category of the festival which is organised by the Cambridge Arts and Entertainment Committee.

Bill Watts

THE WIFE and family of late Mr Bill Watts, vehicle manager at ICL House, Putney who died in December, has fully acknowledged his colleagues' sympathy and thank them for the many contributions made to his memory to the National Heart Foundation.

ANOTHER DOUBLE FOR CHESS CLUB

THE Electra Chess Club had another successful season during 1970-71.

In the Stoke League, the club split its strength more evenly between the A and B teams, following Electra A's runaway victory in the previous season.

After a close fight Electra A won the First Division from Willfield A with 13 wins, one draw and two defeats.

Electra B were third, with 10 wins, one draw, and four defeats, plus one match depending upon an adjudication.

In the League Knock-Out, Electra A defeated Electra B in the Final, so that Electra A completed the double for the second year.

In the Stoke League Second Division, Electra C finished with seven wins, two draws and five defeats. Electra D won five matches, drew two, and lost seven.

Agenda

The club remains a section within the GEC Association (formerly known as English Electric Social Athletic Association). Members who are ICL employees will have to become associate members of GEC Association next season and the position of the club within the GEC Association will be on the agenda of club's annual meeting September.

How the 1900S Series was launched

Assistant managing director Mr. Peter Ellis of the company's 1900 'S' launch off to a fine start with his confident handling of questions during the press conference at London's Park Hotel on April 27.

Mr Ellis was at one point asked whether the announcement of the 'S' Series would "restore confidence in the City?" "To the extent that it needed restoring," said Mr Ellis.

Seventy journalists, some of them from the Continent, gathered to hear about the 'S' series with its more powerful processors, faster core stores, new peripherals and software.

Upgrading existing 'A' installations to 'S' is now, with minor limitations, possible on site they were told.

The 1906 'S', using a plated wire store with a cycle time of 300 nanoseconds and access time of 130 nanoseconds (the fastest main-frame memory in any commercial computer) becomes the most powerful computer to be marketed by the company.

The 1904S also doubles the throughput of the 1904A,

and is 50 per cent more powerful. It, too, has a fast memory with a 300 nanosecond cycle time, using solid state technology instead of plated wire.

The 1903A can, overnight, be turned into a 1903S, with a 66 per cent increased throughput, making it as powerful as a 1904E.

The 1902A, turned into a 1902S, also has a greatly increased throughput and can use up to 48K core. It is twice as fast as the new 1902A.

A new 1902A now available provides a smoother growth path for 1901A users, allowing them to retain basic peripherals and use twin EDS's where appropriate.

Also part of the package is the new EDS 60, with twice the capacity of the EDS 30. The 11-disc cartridge has room for 59.2 million characters.

There is also the new communications processor—the 7903, available for all 1900 users from 1902A upwards.

It speeds computing by taking and assembling messages for the central processor, delivering them only at opportune moments, thus allowing the computer to

work with fewer interruptions.

And, of course, the entire 'S' Series is greatly enhanced by new software packages, which include a much matured GEORGE 3 operating system, new languages, and new compilers.

The most significant advance in software is ICL's new Data Base Management technology, with its central concept of "transparency", which allows the reorganisation of files, records and data elements without the need to re-write programs. It forms a basis for management information systems approaching the ideal.

The 'S' Series is a highly practical vehicle for this breakthrough on the data base front.

Mr Ellis went on to say that ICL had already sold 2,500 computers in the 1900 range and expected to sell another 2,500, many of them in the 'S' Series.

Inevitably there were questions about the "new range" or "Project 52". Mr Ellis made it clear that the 'S' package, though a significant advance, was not ICL's new range.

When that came, ICL customers would be able to bridge to it with no threat to their original investment in 1900 software or peripherals. This applied to System 4 users as well as those with 1900 installations.

The main point of the morning was market development division manager Mike Gifford's presentation lecture, detailing the new series.

To illustrate all the additions to the 1900 range since its inception in 1964, he used a specially prepared kit representing the variety and number of different units in the 1900 range.

ICL had, he said, introduced 20 new processors and he poured them out of a box. There were 30 new types of backing store, he said, tipping out 30 yellow blocks. He followed this with 55 new peripherals, 72 communications devices, 17 major software packages, 840 program packages and 2,336 library sub-routines.

The sub-routines, in the guise of 2,336 lightweight "mothballs", scattered all over the room as they were poured out. The demonstration was spectacular and highlighted the vigour and diversity of 1900 System technology.

HOUSEKEEPING ROUTINES ARE IDEAL FOR THESE HOUSEWIFE PROGRAMMERS

INTERESTING development in the computer industry in the past year or so has been the emergence of housewife programming organisations.

Some are either attached to manufacturers, working for manufacturers, or independent commercial setting-up contracts from a variety of computer users.

Some are cottage industry operations, staffed mainly by women programmers who are in the mainstream of the home to bring up families.

Credit to these women is given for the people they work at their expertise is not

achieved without any outside advertising.

The branch is part of the Systems Programming Organisation and it was developed mainly to off-load systems work on 1900 and System 4 machines.

This involves a great deal of liaison with existing parts of a system and Hilary had to conduct a feasibility study.

Most of the other freelance and part-time programming organisations specialise in general programming, where there is no need for close connection with existing routines and systems.

It took only six months to convince Hilary and her bosses that the project would be successful and that the standard of work was consistently high.

Hilary says she is tempted to start a programming project herself but the managerial aspects of the venture—finding staff and contacting ICL departments with programming work—is a hectic task, and she has a two-and-a-half-day working week.

Ten hours a week is the lowest number of hours that any programmer on the scheme works.

Many of the part-timers become involved not for a hobby or for financial gain but to keep in touch with their profession.

Hilary says that many industries are against giving part-time work to married women, especially in the home environment.

She insists: "There has got to be a change in industry's attitude in order to use professional women while they

are rearing their families.

"It's not only the fact that their skills are lost to industry for five years or more but there is also the necessity to retrain them once they return to a conventional method of working."

Hilary believes that because the computer industry is prepared to innovate to overcome the desperate shortage of experts—particularly programmers—management in other spheres may have the confidence to follow.

The main advantages of having a part-time home-based labour force are the low overheads and payment to programmers only for work done.

So far three terminals have been installed at programmers' homes.

other programming organisations, where security reasons mean inquiries about a project must go through a central administration point.

The possible levelling off of the number of United Kingdom computer installations and the subsequent easing of the staff problem will, Hilary thinks, have little effect on the demand for part-time programming.

She said: "It would be difficult to try to build up this kind of service during a period of glut, but once it is well established, management will continue to use the service because the staff are already trained and because of the economic operating costs."

As far as the programmer is concerned there are advantages in working at home.

Concentration is easier because there are less interruptions and when you reach a problem point, or can no longer concentrate intensely, there is always the washing up or the potatoes to peel while the subconscious works away on the problem!

Hilary insists she experiences less tension working at home and she finds it more productive and less tiring than the same time spent in the office.

One of the two male programmers in Hilary's team is Nicholas Forrest. He spent three years in ICL's Systems Programming Organisation's development division before it became necessary for him to return to his family's farm at Beulah in Carmarthenshire.

His plan is to return to the computer industry in the



Hilary Cropper with her 17-month-old daughter Elizabeth.

IDEAL

Hilary Cropper decided that her career should be what she brought up. ICL decided that she was the ideal person to start programming-at-home.

Since its inception in March 1969, the Part-time Programming Branch has expanded rapidly and there are now 100 programmers working on projects ranging from housekeeping routines to advanced development.

It was determined to be a management that this could be carried out profitably and economically.

The first move was to contact ICL programmers who were already looking after a number of these ready-written to such expansion has been

make better progress that way.

More typical of the majority of the part-time programmers is Sheila Wharton, who is married to an ICL employee and has a three-year old son.

She is an ex-English Electric Computers' programmer and until she joined Hilary's branch, had not worked until since just before Simon's birth.

FLEXIBLE

Hilary plans to have a pool of terminals which can be transported to programmers' homes when a job needs the use of a terminal.

For certain jobs programmers are organised into teams with a project leader, other jobs are done by single programmers reporting to Hilary or liaising with the contact on site.

Hilary has kept the organisation as flexible and informal as possible. She encourages the teams of programmers to meet and talk about their work as much as possible and there are on-site meetings.

Hilary has encouraged direct contact with the on-site programmers because the problem of lack of direct contact with the customer has been a stumbling block for some

future and, perhaps, attend to his farming on a part-time basis.

With a degree and three years' experience on a development project, Nicholas would have been an expensive loss to SPO had it not been for the part-time programming branch—with the help of a terminal—which has enabled him to continue working on the same development project which pleases both Nicholas and the company.

He devotes about ten hours a week to programming while still concentrating on farming and the programming time will probably increase as the farming becomes better organised.

He goes to Kidsgrove for progress meetings at least once a month and has stayed with friends near Kidsgrove in order to work on the project when he felt he would

BORED

Though she enjoyed her three years at home, Sheila said she was beginning to feel a little bored by the time Hilary approached her to join the scheme.

Sheila started by doing her programming while Simon was having his two-hour afternoon sleep. Now Simon prefers to play rather than sleep but Sheila is encouraging him to play quietly while she is working.

Simon will soon join a playgroup on two mornings a week so while other mothers with playgroup children enjoy the luxury of shopping alone or a coffee morning, Sheila will be doing a couple of hours of peaceful programming!

Sheila was the first programmer to join the part-time programming branch last March.

At first she found she was a little slow after her three years' rest from programming but once she had mastered the Multijob system—her first assignment was amending a program which ran on the ICL operating system to the Multijob system—she found things easier.

Sheila's main reason for undertaking work at home is to maintain her expertise and keep up-to-date with programming techniques. She says: "Though the money is nice, I would still do the work even if I was paid less."

When Simon is older and at school, she will increase her hours of work.

Sheila is eager to help the branch grow.

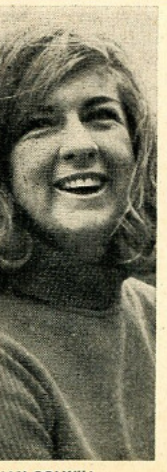
She says "I don't really like working in the evenings but when things are going well, and my husband Peter, who works at ICL Kidsgrove, arrives home with a pile of printout, I can't wait to sit down and look at it!"

Sheila thinks she would prefer to work at home even if part-time work with child-minding facilities were available.

The advantages of working at home? Ease of concentration, and the elimination of travelling to the office, which she regards as a great waste of energy for working mothers.

She misses the stimulation of working with other programmers and the opportunity to discuss programming problems but her husband fills this gap.

GLOBETROTTER JAN WAS PROMOTED FROM THE RESERVE



WE HAD difficulty running Jan Colwill to earth. Eventually we pictured her as she stopped off in London between secretarial assignments for ICL in Moscow and Bulgaria.

But it is not just because she's been a roving secretary that we talked to this 27-year-old Australian, who is now based in Sofia working for our Bulgarian operation.

Jan's success story started when she joined the Reserve Section ICL runs for secretarial and typing staffs.

Popular

Set up in Putney and Central London only a year ago, it is already operating a highly popular secretarial agency within the company.

Jan, of course, is now happily settled on the permanent staff—which under-

lines the value of the Reserve service.

Its secret seems to be in allowing new secretarial staff a "settling-in" period when they can work in various departments before settling down in one particular office where they feel happy.

The comings and goings of secretarial staff are a headache in any company, especially a highly-specialised one like ours, but Mary Gilfillan in Putney and Marjorie Coles in Computer House, at the Easton Centre, ensure that there is a constant supply of secretaries and typists to keep the managers happy.

Staff can join ICL on a

temporary or permanent basis, and Mary keeps three staff lists: Temporaries, Permanents and Permanent Floaters—secretaries who like to move around departments within ICL.

Marjorie is personnel officer for secretarial staff at Computer House and looks after the younger girls who want full-time work, whereas Mary's army of reserves are mostly Putney wives and mothers.

ICL runs a school-leavers' course at Newlands House for junior secretaries who usually join the scheme when they have improved their shorthand and typing speeds and mas-

tered the technical terms common in the computer industry.

In their first year they work in various departments to gain experience and knowledge of the company and are intended to be in line for promotion to more senior positions.

Secretaries and typists in the computer industry need to use their heads, and this is why they stay, Marjorie thinks. "It's when girls leave school with low speeds that they're discouraged and give up."

Mary Gilfillan agrees. Her staff like more administrative work than shorthand and typing and managers are

pleasantly surprised to discover these women are mostly of senior-secretary status.

Mary now has a reserve of more than 40 secretaries she can call on during the holiday period, following the enormous response to an advertising campaign in local newspapers appealing to "house-bound temps".

Many of them are temps no longer, of course. But because they live locally they know they can be at home when they are needed.

A number of temporaries recruited for the Reserve last year have now settled into permanent positions.

And running our own agency saves the company money for each secretary compared with the rates we would have to pay to an outside agency.

Meet the three good Samaritans

THEY MAY not be called Good Samaritans nowadays but there are still some of them around. And perhaps few would agree more readily than Patricia Kelly, a polio victim, who has spent the past 13

years in an iron lung in Cherry Orchard Hospital, Dublin. This story is about three Good Samaritans—all ICL computer engineers in Dublin—Larry Conlon, Michael Venables and Pat Skelly, who are making a significant contribution to her occupational therapy.

Though completely paralysed Patricia was determined to make a success of life, even in her own limited way, so—laboriously and painstakingly—she learned to type, using an electronic typewriter operated by sucking and puffing through a mouthpiece. But when she was absolutely word-perfect and had got to the morale-boosting stage of being able to have about one article a month published, disaster struck in the form of a fault in the electronic control box.

The P.O.S.M. Project—suppliers of the equipment—have no servicing arrangements in Ireland but after one of their engineers, himself a polio victim and luckily on holiday in the Dublin area at the time, had repaired the fault they looked around for some more satisfactory way of having the servicing done locally.



Michael Venables examines an example of Patricia Kelly's typing to check his repairs, while Larry Conlon adjusts the mouthpiece through which Patricia sucks and blows to produce her work. Patricia can type "surprisingly quickly" according to Hugo Patterson, ICL's Irish Public Relations manager.

Platter Chatter

Klondyke next stop for Harry

TER 38 years in Letchworth's No. 1/1 story, Harry Fuller is off on his travels in... to Canada and South Africa. He was born into a circus family—his grandfather was a bare-back rider—and worked as a fly-boy on the *Sporting Chronicle* in Manchester, then in heat treatment works in Sheffield, Gt. Wigmore, Guildford and Kingston-on-Thames before going to Letchworth. But in 1933 Harry arrived at 1/1 and stayed, becoming a foreman in various departments in the works, and spent the last 18 months as an administrator in the night dept., looking after apprentices and mechanics, before retiring in April.



Harry, a widower, says he is only waiting for his faithful old dog Billy to die before wandering to explore Canada's Rockies and the Klondike, and spending his winters in South Africa. He has been an active trade unionist for most of his working life, and is a former chairman of the district committee of the AEU, a district committee member of Letchworth Trades Council, and is currently an official and checkbook keeper of the AUEW No. 3 branch.

Majority Club



THE FIRST social function held by the House (Letchworth) Majority Club Association was an inaugural dinner held at the Bushe Strike, Ashwell. Chairman Bernard Bassett lined the aims and ambitions of the association—after introducing the guests of honour—Ross, secretary of the Majority Club, and his wife.

After expressing his pleasure at being invited to attend a function so soon after taking up his office, he produced some interesting statistics to illustrate the size and progress of the parent club. Bernard welcomed into the association the new members who qualify in 1971—Dennis Banning and Eric Basford. Tribute was paid to Bernard Whitehorn on his 45 years' service and a bouquet was presented to Flo Crow on her retirement from full-time employment after 30 years' service. Some of the members are pictured above.



JOHN WALL with Reginald Ladd (left), senior member with CEO in Bristol, and Frank a year earlier. In 1934 Frank was transferred to Leeds, and transferred to Sheffield in 1948 and stayed five years later. The picture Sir John and Reginald's long service gift of a gold watch.

Brains and beauty

AS A PUPIL at Leiston Grammar School, Suffolk, Jean Watson had to put up with a certain amount of teasing.

She was the only girl in a class of 15 boys taking pure and applied maths and physics... and was among the top three in the class.

She obtained 12 'O' levels and three 'A' levels, then left to take a B.Sc. Special Honours Degree in maths at Hull.

Back home in Suffolk, Jean's two elder brothers, both farmers, ribbed her unmercifully. Why was she off "skiving" while they were honestly tilling the soil?

Jean won an upper second degree before joining ICL in December 1968.

In 1969 Jean moved to User Program Services, later to become Datasilk, where she is now in the field systems division. Among the programming she has done is part of a suite of food invoicing software for Ssssh, you know who....

Jean, 23, is now assistant project leader for a 1900 software package involving the conversion of NEAT to PLAN.

It was inevitable that Jean's ability and looks would gain attention and she was recently approached by a writer and photographer from *Dataweek* magazine.

They said they would like to make her *Dataweek* Computer Bird, and Jean agreed.



JEAN WATSON

Farewell

SISTER Jean Dumbill, the senior nursing sister at Winsford has left to take up a new appointment at the Leighton Hospital, Crewe. Sister Dumbill, one of the founder members of ICL Winsford, has been in charge of the surgery for the past four years and there cannot be many employees in the factory who have not, at one time or another had cause to be grateful for her sympathy and skill.

To show their appreciation, members of the staff and works presented her with an electric sewing machine.

Ian tapes Burns for Bulgaria

UNEXPECTED bonus for the English school at Russe, Bulgaria, when ICL's Ian Black was there, was a Burns interpreter.

Scotsman Ian was pressed into service explaining the great Scots poet's tongue-tying pronunciations and the deeper meanings of his work—something the school had been struggling with for three years.

Though his lecturing at a direct access systems course prevented his going to the school during the day, Ian captured the great Rabbie's lines on tape in a rich Dumfries accent (Burns lived there towards the end of his life).

Before returning to London's Newlands House and the Customer Training Advisory Service, the school gave him a bottle of local Champagne, so next trip Ian's taking a haggis!

THE MAN WHO SENT GORDON BANKS TO COVENTRY

ALL HE did was through a few goals season, but now Stoke City's England goalkeeper Gordon Banks is to be sent to Coventry by an employee.

Of course, Doug Flower, Manager Group Plant Baric, (who supports Quakers Park Rangers by the way) acknowledges Banks as a very great goalkeeper and nothing personal.

But the fact remains that August 14, first Saturday the coming football season Banks will be in Coventry with Mr Flower will have sent there.

It could be worse. The Stoke City team will be there too, and they will all be playing football.

FIXTURES

Doug Flower, as you have guessed, is the man with the help of an ICL K computer and considerable brainwork, compiles Football League's fixture book.

If it were just a simple matter of seeing that every team in each league only plays every other team in its league twice in one season, the task would be ready less time than it takes Liverpool fan to say "Ars won the cup."

There is more to it—enough to keep half a dozen mathematicians busy for ten days at least, unless they know details of the computer program and data preparation techniques used by Doug Flower.



DOUG FLOWER

Besides, pencil and paper methods alone produced in the past that often fell short of pleasing everyone.

The sort of clashes have to be avoided in situations where for instance Manchester City could themselves playing at home three Saturdays running—the same time as their neighbours, Manchester United and having to share the ground.

It is because Baric's special brand of Flower power please most football teams most of the time, that the of preparing the list has gone to them for the fourth consecutive year.

Doug was already working at his home in Chesley Bucks, on this year's during the FA Cup Final.

"I was watching on television but I got quite a bit of the groundwork done during the first 90 minutes play," said Doug. "But the puny work aside for half an hour."

KEEN

By the following Monday Doug had drawn up a provisional fixtures list.

He also compiles fixture lists for the MCC, the Central League, the Football Combination and the North St. Cricket League.

Doug, a keen hockey player despite his interest in soccer recently moved from Kirov—where he was living in England—to Baric's office in London's Newman Street. This means he is looking for a team in the Chesham area who will give him a game.

As a player, he might well be an asset. And, of course, he'd make an excellent fixtures secretary.

MIKE KIRK

'King' clocks up his 42 years

AN UNUSUAL double majority gift has been chosen by James King Palmer—"King"—to his friends within CEO, where he is manager with special assignments at headquarters in Letchworth.

His choice was a French carriage clock made during the Victorian period.

King joined the company in 1929 as a fitter and progressed to zone manager with CEO London North West before taking his present appointment.

In his youth one of his main hobbies was cycle touring and racing. During one 24 hour endurance ride he covered 430 miles.

With a diplomatic touch, Richard Milam, personal assistant to the machine shop

controller at 2/1 factory, Croydon, let his wife choose his double majority gift.

She decided on a stainless steel tea set. Richard was grinding shop foreman for 41 years of his service with the company before taking his present position.

He has put a lot into the Company during his service. Last year he received £250 from the suggestion scheme and the year before that £75.

When he retires, Richard hopes to join his daughter and son-in-law in Holland, where his son-in-law works for ICL.

Albert Cox, an evaluation engineer from the planning department at 1/1 factory Letchworth, was so impressed by the gold watch he received at his first majority presentation that he decided to pick another for his double majority.

Albert, who started work at 1/1 in 1929, says that his first watch is still going strong after 21 years.

He has enjoyed all his working life and hopes to be able to make his total service with ICL 51 years before he retires.

Vernon Watkiss, a supervisor in London Central DP region at Greville St., received a camera as his double-majority gift.

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CRICKET

A former student apprentice who joined British Tabulating Machine Company at Letchworth in 1929, he represented the company at cricket, football and hockey in his younger days.

He lives now in Gillingham, Kent.

George Gilchrist, a technician with Systems Group at Letchworth, joined the Company as a "lad" 42 years ago. He says that jobs were hard to come by then, and being a "lad" meant that you had to be prepared to turn your hand to anything that you were asked to do.

George started his career at Croydon where he worked until 1957. He then moved to Whyteleafe and on to Letchworth.

He chose a gold watch for his presentation piece. He says that this is to replace the one given for his first majority which was smashed in a car crash.

DURING APRIL and May, the following became Majority Club members on completing 21 years service.

CASTLEREAGH: W. T. Graham, machine shop press operator; W. Mellan, machine shop foreman; R. McCormick, assembler; J. Boyle, machine shop radial driller; Miss A. Lennox, personnel supervisor; G. Stafford, timekeeper; H. Clegorn, dresser; E. Regan, inspector; G. Willoughby, production taster; G. M. Ellis, storeman; W. G. Wilson, development engineer; J. McVicker, production administrator.

CROYDON: R. E. Whybrow, Inspector; J. R. Ford, stock checker.

LEITCHWORTH & STEVENAGE: J. Hudson, planning engineer; L. Knight, manager, quality and reliability services; G. Goody, stores controller; E. H. Basford, O & M officer.

INDIA: C. Menezes, service engineer; G. Lal, peon.

BUTCHER, area manager; J. L. Vine, supervisor.

CAIRO: S. El Khadem, systems engineering manager; S. Gheith, assistant storekeeper; I. Nafeh, sales manager.

LEICESTER: H. A. Ward, engineer.

MANCHESTER: A. Crompton, engineer.

COVENTRY: B. J. Howe, engineer.

GLOUCESTER: R. S. Hedges, engineer.

DUBLIN: H. Sargent, field engineer.

LEEDS: S. Coates, personnel development manager.

OXFORD: J. Willis, engineer.

SWEDEN: E. Palmgreen, foreman.

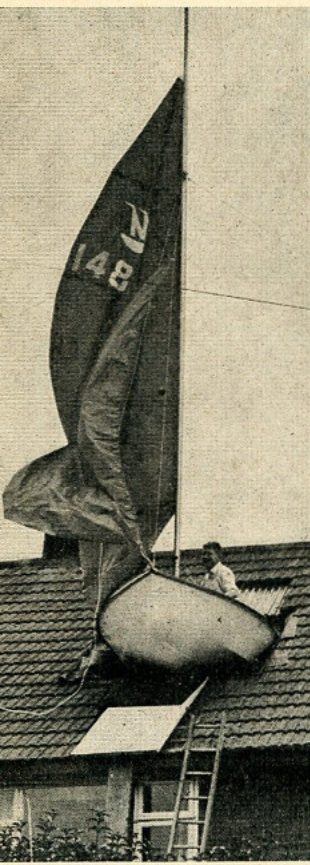
NORFOLK: R. G. Buck, engineer.

BRIGHTON: C. F. Hutson, engineer.

HULL: A. Woodall, engineer.

ICL SPORTS PARADE

The answer to that front page picture poser: it was just Ron Clayton and Don Naylor trying to right Roofus III when it capsized after Ron had (below left) started the launch through his loft window. Below right Ron and Don have help putting the boat into the water . . . minutes before capsizing.



Roofus III raised the roof

WEST GORTON development engineer Ron Clay has launched his third home-built boat. And all the first two were a standard Mirror dinghy and a catamaran—both constructed in and launched from the loft of his home in Mossley.

Roofus III, a 14 ft. Mirror racing dinghy, despite its magnificent debut through the roof (Ron has to remove the roof tiles for these launches) did not fare so well when she met water for the first time.

Within ten minutes, a tricky wind had capsized her, leaving Ron and David Naylor, a fellow-member of Dovestone Sailing Club, clinging to the hull.

They soon righted it and sailed on, but not before an enterprising freelance journalist snapped the two men sitting on the upturned hull. Minor drawbacks like this are nothing to Ron, who says he spends his winters building boats in the loft and the summers sailing on local stretches of water.

Kit

He spent £200 on Roofus III, built from a kit in which the sections looked like pieces of banana skin when it arrived at the end of October, says Ron.

Lily Clayton is quite resigned by now to her husband's hobby—a nice stay-at-home one for winter evenings—but their son Brian, 16, finds no charms in the goings-on up there in the loft.

He's more interested in motor-cycles, says his father. "He may become interested later, but finding someone to crew for me is a bit of a problem," Ron admitted. So the next thing he is going to build is a solo boat.

Big win

ICL Letchworth won the Scott Dennington Cup—the Letchworth Inter-Works Sports League trophy—when they beat Borg-Warner 7-1 at the end of April. John Castle netted three of ICL's goals. Barry Corney and Paul King each scored two.

Small-bore entries to Ireland this year

CASTLEREAGH are taking over the organisation of company's small-bore shooting competition from Croydon factory.

Billy Scott, a clerical supervisor in Group 8 at Castlereagh and this year's host of the Dennis trophy, will be the contest in future.

Provisional date for the 1972 contest is Friday, July 30, the closing date for entries June 18. An entry fee of £1.00 and a competitor will be levied to cover the costs of targets.

Trophy

This event has been held annually since 1967, when R. M. Dennis, then works manager at Croydon No. 1 factory, first presented the trophy.

It attracts entries from over the country and North Ireland, where they have small-bore rifle enthusiasts.

KIDSGROVE TAKE THE TITLE



KIDSGROVE won the third division title in their first full season in the Potteries and District Sunday Afternoon League. They clinched the championship with a win against Apollo in the last week of April. Natural enthusiasm and skill accounts only partly for their success—credit must also go to the City forward Harry Burrows, who scored the team.

Throughout the season, they lost only one game and drew one—both cup matches. Pictured above (left to right) are, back row: I Jarvis (assistant trainer), J. Smith, R. Robinson, R. Sutton, D. Vyse, F. McKechnie, W. Cooper, J. Fenton, J. Finney, secretary. Front row: K. Key, D. Buckley, J. Gibson, R. Chesworth (captain), M. Cann, J. Bailey, A. Davies.

League honour three

THE South-East Lancashire Amateur Football League has been won by CEO North-West Recreation Club team. They also reached the semi-final of the league's shield competition. Two of the team, Dave Wilkinson and Dave Harris, have been selected to represent the league's side, with Jeff Peace as reserve.



The first challenge match between Quality Assurance, Kidsgrove, and Quality Assurance, Winsford, was played at Great Moreton Hall, the ICL Social Club sports ground on Sunday, May 9.

Kidsgrove won 5-0 and received the Quality Assurance trophy from Mr P. H. Stanley.

A good time was had by all, even the spectators, and the only sad note was that one of the Kidsgrove players, Dennis Barnett, broke an arm. He didn't realise it at the time—and carried on playing.



Eight teams played in a five-a-side football tournament in a hangar at RAF Henlow in Bedfordshire.

The semi-finalists were: Works Accounts, Letchworth versus Works Accounts, Stevenage and Data Processing Systems, Letchworth against Data Processing Systems, Stevenage.

Both Letchworth teams reached the final, which produced a close game that was won 1-0 by Processing Systems.

Right half Trevor Lambe scored the second-half winner after goalkeeper Brian Evey had beaten out a 'shot' from Lambe.

They won three soccer trophies



THREE TROPHIES were sported by the Winsford management (formerly Quality Control) five-a-side football team at an end-of-season presentation in the Railway Hotel, Acton Bridge.

In the picture left are—back row (left to right): Tony Evans, Dave Galley, John Warner. Front row: John Callaghan, Tony Williamson (captain), Chris Chrimes.

The team won the company's Winsford League Champions cup, given by Mr Victor Barnes, manager of Kidsgrove and Winsford; the League challenge cup donated by Mr P. R. Fisher (formerly in charge of Quality Control) and the knockout cup given by Mr J. W. Douglas (Quality Control management).

Winsford factory's inter-departmental competitions are now in their second year, with 19 competitions organised. There is a thriving golf section and they hope to build a driving range at the back of

the factory. Planning permission has already been given to level off the land beside the canteen block, and the putting and bowling greens were due to be opened this month.

More sports space for football, tennis and netball are planned as ICL has the option on land adjoining the factory for extension purposes. Permission for a football pitch has been granted and Chris Chrimes, sports and social officer, says they hope to field two company teams from Winsford in local leagues next year.

IRONSIDE TAKES THE HELM

EMPLOYEES at ICL's Norwich office have started a sailing club with £20 each from 12 founder members. Already the club has invested in a "Torch" class glass-fibre sailing boat and a 12-ft. dinghy, which they intend to



MEMBERS of Castlereagh Ladies' Bowls club turn on prize-winning smiles for the camera at their annual dinner in the Strathearn Hotel.

The prizes for the indoor section were presented by Mr A. S. "Sandy" Mulligan, secretary of ICL Sports and Social Club, Castlereagh, who is in the picture with the prizewinners.

The women bowl up for prizes

Special guest of the evening was Mrs I. Lord, who leaving the company, intends to carry on bowling with the club.

SIR JOHN says . . .

(Continued from front)

Sir John said Britain's stake was using our dominance to make them take our products instead of encouraging them to develop their own technology and know-how.

Every country had the right to enough independent technology to allow it to try on independently if political factors made it desirable or necessary, he went on. It is not enough merely to create employment and improve that by setting down a plan and employing nationals who had fulfilled your responsibility.

Fallacy

It was a fallacy to imagine that if your plant is run by native personnel you had created a real international company.

"You have created a satellite," said Sir John. "And that is not the same thing."

Commenting on the expansion of ICL's business with the USSR and Eastern Europe "now being inhibited by the Government," Sir John said his personal view was that technology should not be used as an instrument of foreign policy, but to improve the wealth and happiness of mankind and should therefore be made widely available.

The present system of regulating computer supplies makes us all look stupid in the eyes of people in Russia and Eastern Europe", he went on.

"Our achievements in space are their technical skills: that do we achieve by giving them of new products and systems?"

"The computer industry's tendency to encourage mystique and elitism had hampered the community's acceptance of the industry."

"I said we must get down to simple facts and simple descriptions and not allow ourselves and pundits to bemuse already suspicious communities about the brave, new, computerised world in which few of us would wish to live."

Choice

The other danger inherent in the present situation—or increasingly vested in the hands of a few people—called for urgent study in Sir John's view.

"The computer industry will learn from the bitter experience of others and ensure a small group within the industry could not hold the community to ransom by insisting to operate vital information systems."

A large number of people will be able to continue to operate systems if a small technical group decided to work.

"Anything we need world standards, not de facto ones imposed by the supplier, Sir John added that the industry's special task of giving customer real value for money, and offering real form of choice.

"That choice, which is what the competition is about anyway, will come through genuine national standards such as standard interfaces."

Risk

"Sir John told his audience America still did not seem to have accepted fully responsibility which went with power, or reconciled themselves to the endless risk which went with responsibility.

"The longer you delay, the greater will be the risk that you will take decisions for yourself."

"But it is still not too late, I know that your industry has the capability to do the job well."

"The only question is: do you have the will?"



Russian Trade Delegation players and ICL players (plain shirts) carry off Ken Chilton after he had broken his leg.

Safari Rally success

THE INFORMATION system organised for the 1971 East African Safari Rally by Roger Burrell, manager of the ICL bureau in Nairobi was a resounding success.

Run on the Nairobi City Council's 1902A it provided a rapid means for those spectators, press and officials of the rally to obtain up-to-the-minute information on progress.

Roger says that at the end of the rally one French reporter remarked that information was available five hours sooner than at the Monte Carlo.

Interest

The visual display of information was greatly appreciated by both local and international press representatives covering this event.

The computer also produced 51 information sheets during the course of the rally and worked continuously for 104 hours without a single hardware fault or data transfer failure.

Considerable interest was shown by some of the press in the information system itself.

The gigantic Sears Roebuck group, who sponsored 12 cars in the rally, made a film for 30 million viewers in the USA.

USSR traders are held to draw

GOALS—and injuries—were even when ICL met the Russian Trade Delegation at Soccer at Aurelia Road, Croydon.

The result was 1-1. Just before half time ICL left-back Ken Chilton con-

tested a 50-50 ball with a Russian player—and fractured his right leg below the knee.

Chilton, now back at work in plaster and on crutches at ICL's 1900 Operating Systems Division in Putney, says it was "just one of those things."

Russian goalkeeper, Valleri Lavrov, a lawyer, being continually tested, showed plenty of courage.

Once he dived into a

tangle of players and straight at the feet of David Platten, ICL's inside-left, coming away with the ball, and a badly bruised and cut face.

The Russians scored first and Platten chipped in the equaliser from a free kick near the end.

A few minutes later, Mike Stokes (of Datskil, Garratt Lane) a Herts County referee blew for time.

£1.8m ORDER PLACED BY MOSKIVICH

ICL AND its subsidiary software house, Datskil, are to computerise a major Russian car plant—Moskivich.

The order, worth more than £1,800,000 was won by ICL's Moscow sales manager John Bradley, and is one of the company's largest deals to date in Eastern Europe.

It has been placed by V/O Avtopromimport, the central Russian buying agency for the car industry. It is for two System 4-62 computers.

These powerful new additions to the System 4 range are designed to meet the special needs of customers in Eastern Europe.

The two machines and their peripherals will control car production in a large-scale factory expansion on the outskirts of Moscow.

The system will be installed by May 1972.

STEPPING OUT AT £100 AN HOUR



A HUNDRED pounds an hour—that was the going rate when Dukinfield factory's Ethel Broadhurst and Trevor Harvey, both of Memory Systems, organised a charity walk to Manchester Airport.

They gathered 47 volunteers pictured above at the start from all over Park Road and between them raised £2,000 over the 15 miles in aid of Multiple Sclerosis Society.

Top scorer was Eileen L. of the Test area, who brought in £24.

BEVERLEY'S TITLE

PERSONALITY, looks and poise were what counted when Data Recording, ICL Group's magnetic recording peripherals subsidiary company, held a contest to name "Miss Data Recording". The title was won by Beverley Jefferies, a 19-year-old telephone receptionist at the Chertsey premises.

In this picture, Beverley is flanked by her two maids of honour. On her left, Mary-Rose Porter, aged 18, a computer job controller, who was runner-up, and on Beverley's right is Mrs Sheila France, aged 22, a sales department secretary. Behind "Miss Data Recording" is R. E. Hutchins, director, personnel and administration, who presented cheques and sashes.

He is flanked by his wife (who is on his right) and Mrs Beryl Acty, ICL demonstration rooms and facilities manager, both on the judging panel. Completing the panel were Councillor R. G. H. Elliott, Chairman, Egham Urban District Council (extreme left), Councillor N. T. Galliford, Chairman, Staines Urban District Council, and Miss Mimi Gilbert, director, WPR Advertising Ltd.



NEW TELEX LINKS FOR CESO OFFICES

TELEX has been installed in the CESO regional offices listed below to promote a faster spares ordering system. The machines will be available for ordinary message traffic; administrators are requested to publicise this expansion of Telex service within the company.

LOCATION	TELEX NO.	ANSWER BACK CODE
Kingston	929906	ICL CES KINGSTON
Beckenham	946258	ICL CES BECKENHAM
Brighton	87552	ICL CES BRIGHTON
Southampton	47482	ICL CES SOTON
Harrow	923537	ICL CES HARROW
Oxford	83509	ICL CES OXFORD
Walthamstow	897122	ICL CES WALTHAM
Norwich	97242	ICL CES NORWICH
Liverpool	627745	ICL CES L'POOL
Nottingham	37267	ICL CES NOTTM
Cardiff	49687	ICL CES CARDIFF
Leicester	341282	ICL CES LEIC
Glasgow	778573	ICL CES GLASGOW
Edinburgh	72659	ICL CES EDINBURGH
Newcastle	537119	ICL CES NEWTYNE
Leeds	557575	ICL CES LEEDS
Sheffield	54665	ICL CES SHEFFLD
Leeds (Horsforth)	557573	ICL CES HORSFRTH
Letchworth		
Training school	825225	ICL TRG LETCHWTH