

THE HOSPITAL ENGINEER

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President :

H. A. SANDFORD, Esq., M.A., F.G.S., M.I.Mech.E.,
M.I.E.E., M.I.H.V.E., M.Cons.E.

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CONFIDENTIAL BULLETIN FOR THE USE OF MEMBERS.

*The Institution as a body is not responsible for the statements
made or opinions expressed herein.*

Hon. Editor—R. G. ROGERS, LANGSTONE CLIFF LODGE, DAWLISH
WARREN, DAWLISH, DEVON.

Hon. General Secretary—H. S. CLARKE, 14 THE VILLAS, ST. MARY'S
HOSPITAL, STANNINGTON, MORPETH, NORTHUMBERLAND.

OBITUARY

The late Mr. J. H. Hargreaves, Vice-President.

Members of "The Institution" will have learned with profound sorrow of the tragic death of J. H. Hargreaves, who was killed in a motor accident at Leaves Green on the 22nd January. The news came as a very great shock to all of us.

Mr. Hargreaves was a founder member and the first Chairman of the Institution, an office which he held continuously from 1943 to 1951.

He was a tireless worker and spared himself no effort in the laying of the foundations and the building-up of "The Institution," and it is largely due to his untiring and devoted energies that it is in such a sound position today.

His considered judgment and wise counsel were always in evidence and the Institution has lost a valued and respected Vice-President and suffered a severe loss at his passing at the early age of 50 years.

His wife pre-deceased him by only a few months, and we extend to his only son our deepest and heartfelt sympathy at this time of his sorrow, for while on service in Korea he has sustained this tragic double blow by the loss of both parents in such a short space of time.

The funeral took place at St. Mary's Cray, Kent, on Monday, 28th January, 1952. Floral tributes were sent from "The Institution," and Mr. R. E. Rogers and Mr. H. Wright attended as close personal friends, and also to represent his many friends of "The Institution" who were unable to be present to pay their last respects to a valued friend and colleague.

R. I. P.

EDITOR.

THE INSTITUTION OF HOSPITAL ENGINEERS

Extraordinary Council Meeting held at the "Great Northern" Hotel, London, on Saturday, 1st March, 1952.

Present: Mr. J. Tomlinson (Chairman), Mr. J. Forsyth (Vice-Chairman), Messrs. R. E. Rogers, H. Wright, R. H. Chesney, G. B. Metcalfe, A. Bain, C. W. Oliver, J. L. Lewis, J. W. Brodie, A. MacGregor, M. Gray, L. Hunt, J. G. Houghton, W. Bullivant, F. J. Chance, H. S. Clarke (Hon. Secretary).

The Chairman on opening the meeting paid tribute to our late Chairman, Mr. J. H. Hargreaves, who died in January as the result of a motoring accident. The members stood to order as a mark of respect.

This extraordinary meeting was called as an earnest desire to meet the wishes of the members as expressed at the Annual General Meeting held at Bournemouth on 1st September, 1951—"That in the interests of economy, Council membership should be reduced."

The Chairman called attention to the resolutions submitted to the Annual General Meeting, and those submitted to the last meeting of Council held in London on 1st December, 1951, and of his great concern in implementing those wishes to the satisfaction of every branch and each member of the Institution. The consultations he had had with his Vice-Chairman, and the advice received from members of Council, decided his action in calling this extraordinary meeting. After every member present had expressed his own interpretation and those of his branch in particular, the following resolution was submitted and approved:—

"That this Extraordinary Council Meeting resolves, on a proposition by Mr. J. W. Brodie, seconded by Mr. W. Bullivant, That the Council shall consist of one duly elected member from each branch, with the following ex-officio Members, Hon. Treasurer, Hon. Secretary, with powers to co-opt up to a maximum total of sixteen members."

"That this resolution shall be implemented forthwith, and operate until the next Annual General Meeting."

There was one vote cast against this resolution.

The date of the next Council Meeting is 22nd March, in London.

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PAINT AND PAINT MANUFACTURE

Paper given by P. G. KIME, Esq., to Members of the London Branch at Westminster Hospital, London.

Most decorators' paints essentially consist of :—

1. Pigment.
2. Vehicle or Medium.
3. Driers.
4. Thinners.

To deal with the simplest type of gloss paint first—Ready Mixed Oil Gloss Paint—the pigment usually consists, in the better grades, of a high proportion of White Lead, although, in the self-colour shades such as browns, black, deep greens and reds, etc., there will be little or no White Lead at all.

A mixture of pigments in a paint is preferable to the use of any single one because, by carefully balancing their different properties, a better all-round performance is obtained. To take a simple case—

White Lead is durable but not opaque.

Zinc Oxide assists colour retention.

Titanium is opaque.

So a mixture of these three in a paint would be better than just one of them.

White Pigments.

White Lead (Basic Lead Carbonate),

Zinc Oxide,

Lithophone,

Antimony Oxide, and

Titanium Oxide,

although Basic Lead Sulphate is now being used as well.

All the best grades of paint in White or tints of White are based on these, but there are a number of other White powders known as Extenders or Fillers which are incorporated into paints for specific purposes. The best known are :—

Barytes,

Blanc Fixe,

Whiting,

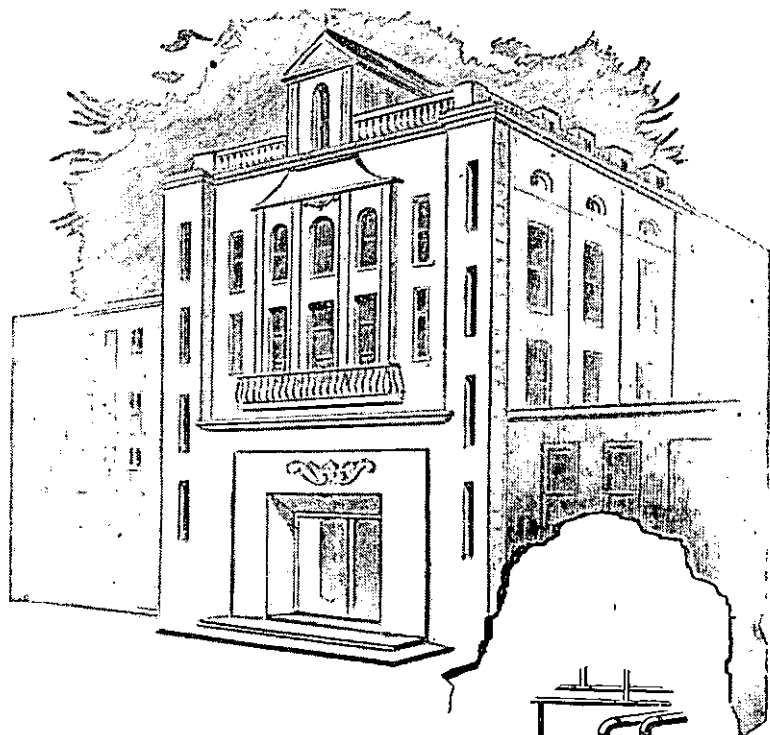
China Clay,

Asbestine,

Barium Carbonate,

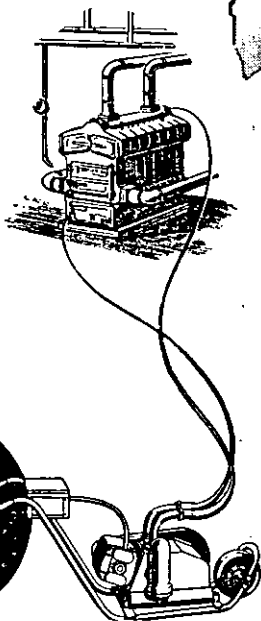
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Extenders, when mixed with oil, are practically transparent, so have little or no opacity, and thus have no effect on the colour of the paint. They are necessary in moderate amounts—depending on which is used—to increase body, to harden the film, to assist adhesion or to prevent caking or settling of a heavy pigment. Extenders are very much cheaper than the five basic white pigments so, if used to excess, paints low in price can be made, but only at the expense of durability and quality generally.

As far as other pigments are concerned the main groups are :—

Chrome.

Lead, Zinc, Barium and Calcium.

Blues.

Prussian and Ultramarine.

Greens.

Lead Chrome Greens (Lead Chrome and Prussian Blue).

Zinc Chrome Greens (Zinc Chrome and Prussian Blue).

Chromium Oxide Greens.

Oxides of Iron.

Ochres—Umbers—Siennas and Red Oxides.

Cadmium Pigments.

Primrose, Lemon, Golden, Orange and Red.

Pigmentary Dyestuffs and Lakes.

Chemical compounds obtained in the distillation of coal tar. Similar to the dyes used in the textile industry but do not dissolve in water. Helio Reds and Hansa Yellow are examples.

The binder or vehicle in Ready Mixed Oil Gloss Paint consists of one or more drying oils, those most in use being :—

Linseed Oil,

Tung Oil (China Wood Oil),

Dehydrated Castor Oil,

although others such as Oiticica and Perilla should be mentioned.

These drying oils need the addition of driers if they are to dry within a reasonable time, but these driers must not be used to excess as they would be harmful. Compounds of lead, manganese or cobalt are frequently used.

So that the paint can be applied it is necessary to thin it with a volatile solvent such as genuine American Turpentine or White Spirit, the latter being a petroleum product.

The films of Ready Mixed Oil Gloss Paints, being rather soft, tend to collect dirt and dust and so quickly lose their decorative appearance, particularly in industrial atmospheres. In such atmospheres White Lead is at a disadvantage because it blackens as its sulphide forms. For these reasons they are rapidly being superseded by Enamels, Enamel Paints and Hard Gloss Paints, the films of which are harder and glossier.

Varnish is a necessary ingredient of most Enamels, Enamel Paints and Hard Gloss Paints, and is usually a combination of :—

Heat-treated and Processed Drying Oils,
Resins or Gums,
Driers, and
Thinners.

These resins can be natural exudations from tropical or semi-tropical trees such as Congo Copal or Kauri Gum and, in the case of Congo Copal, are often obtained in fossilized form. These copal gums are melted by heat at about 320°C and are then cooked together with the oils and driers. After cooling, the varnish is thinned and allowed to mature. The gum is introduced to give more hardness and gloss to the oils but varnishes with a high ratio of gum to oil, whilst being very hard and glossy, are suitable only for interior use. Church Oak Varnishes are in this category. Varnishes for exterior use have a much higher oil content or "oil length."

Synthetic decorators' enamels are similar to other enamels except that, instead of a natural resin being used, a chemically prepared one—an alkyd, generally—is employed. Synthetic enamels are, in fact, an advance as far as durability and gloss-retention are concerned, on the older types.

The development of enamels was taken even further some years ago with the introduction of the Styrene Copolymer types. Enamels based on Styrene Copolymer dry faster without sacrifice of durability, and are therefore capable of withstanding rain or dew at an earlier hour than the traditional kind. They have marked resistance to water and chemical attack and have lower dirt retention.

Flat Oil Paints.

These can be considered to be highly pigmented enamel paints. Obviously the higher the percentage of pigment and the lower the vehicle content the lower is the gloss of the paint. The best types can be wahsed, or scrubbed even, but they are suitable only for interior walls or ceilings. Whilst they can be applied to woodwork, no flat oil paint can withstand the same amount of abrasion as a hard gloss paint.

Eggshell Enamels.

Eggshell Enamels can be used on interior walls and woodwork and the best resist abrasion to a very high degree.

Oil-bound Distempers or Oil-bound Water Paints.

Water and a bodied oil or varnish are incorporated by emulsification, the emulsifying agent usually being a glue solution. Lithophone is the pigment generally used in the better grades, with Whiting predominating in the lower-priced ones.

Petrifying liquid, often used to thin them, is merely the name for the emulsion of oil in glue form.

Most decorators' paints come within the classes given, but there are a number of others that have been developed for special purposes such as :—

Chlorinated Rubber Paints,
which withstand direct attack from acid and alkalis,

Anti-Fungus Paints,
for use in locations where mould growths are evident or where the conditions are likely to promote them, and

Anti-Condensation Paints,
which reduce condensation.

BRANCH NEWS.

MIDLAND BRANCH.

Minutes of Meeting of the Midland Branch, held at Horton General Hospital, Banbury, on Saturday, 3rd November, 1951.

The first part of the meeting was open to members of various sections of Hospitals, which included Secretaries, Matrons and Sisters

The Chairman, Mr. F. Chance, opened the meeting at 2.45 p.m. by introducing Mr. W. Wilson, of the Mayfair Colour Centre, who had come to lecture on "Colours in Hospitals." Mr. Wilson opened his lecture with a remark which caused much amusement, by stating he had managed to arrive at Banbury from London in time to start the lecture at the correct time, whereas, when we should have been in London to hear this lecture, on the visit to Messrs. Lewis Bergers, we were playing roundabouts on a police traffic point. Proceeding with his talk, Mr. Wilson stated that while there was a table of

colours laid down by the B.S.I., the British Colour Council had exceeded this by producing a range of Standard Colours, 360 in number. By producing various illustrations, particularly the "Pink Elephant," Mr. Wilson proved how important it was with the colour of work people were engaged upon, that their eyes were not strained by a contrast in the colours that surrounded them when they wished to rest their eyes from their work, and how the effect of colour in a ward or room where a sick person was being treated, if it is of the right type, may shorten his stay in that particular room by aiding to restore his health more quickly. When choosing colours, three things must always be kept in mind :—

- (a) The Lighting.
- (b) The Architecture.
- (c) The Laws of Colours.

Without using these as a basis, it is impossible to get a satisfactory colour scheme. At the close of his lecture, Mr. Wilson answered many questions.

Mr. Bullivant very ably proposed a vote of thanks to the lecturer, and Mr. W. G. Harper seconded, and the motion was carried with applause.

The Chairman then expressed the thanks of the members of the Institution to Mr. C. G. Tomlinson, Secretary to the Banbury and District H.M.C., for the use of the room which his Committee had again so willingly let us have ; to the Matron, Miss Loader, for providing refreshments, and to the visitors who came along.

The meeting then closed to partake of a very enjoyable tea.

After visitors had left, the members remained for a business meeting.

Apology for absence was received from Mr. Locker.

Minutes of the previous meeting were not read, as the Minute Book was not available.

Annual General Meeting.

Mr. Bullivant enquired if an agenda had been issued of the Annual General Meeting held at Bournemouth on 3rd September, prior to the meeting. The Secretary stated the Agenda was given to all members at the meeting, and not issued before. Mr. Bullivant then proposed that the following resolution be sent to Council : "That the Agenda of future Annual General Meetings should be printed and a copy sent to each member in sufficient time to allow all branches to hold meetings to discuss resolutions that may be on the Agenda before the Annual General Meeting is held." This was seconded by Mr. W. G. Harper, and unanimously agreed.

Donation to Matron's Christmas Fund—Horton Hospital.

The Secretary reported that several meetings had been held at the Horton Hospital and no charge had been made, and proposed that a sum of £2 2s. 0d. be donated to the Matron's Christmas Fund, as a small repayment for the many kindnesses that had been shown by the Matron and others of this Hospital. Seconded by Mr. A. E. Pullen, this was agreed.

Whitley Council Meetings.

Mr. R. E. Rogers gave a report on the Whitley Council Meetings he had attended on the previous day, 2nd November. This was a joint meeting of Management and Staff. The meetings started at 10.30 a.m. and proceeded till 8.30 p.m. Mr. Rogers stated that while he could not tell us how much, he was pleased to state that the Ministry had agreed to give a small general increase in salaries to all Engineers, and it would be retrospective to 1st August, 1951.

Local Authority Engineers.

The Ministry had agreed to a similar scale of Salaries to P.T.B.3 for these Engineers.

Teaching Hospital.

No satisfactory conclusion had been arrived at, but a joint sub-committee was being set up to explore the conditions, etc., of these Hospitals.

Clerk of Works.

No action taken, but a sub-committee formed to enquire into the position of Clerk-of-Works.

This concluded Mr. Rogers' report.

Membership Certificate.

The matter of the very slow process of issuing these certificates was again raised, and Mr. H. K. Sankey proposed the following resolution be sent to Council: "The members of the Midland Branch deplore the slow, inexcusable way the Membership Certificates are being issued, and insist that action is taken immediately to see that there is no further delay in issuing all outstanding certificates."

This was seconded by Mr. L. Trafford, and the resolution carried unanimously.

The Meeting then closed.

Minutes of Meeting of the Midland Branch, held at the Birmingham Accident Hospital, Birmingham, on Wednesday, 5th December, 1951.

The Chairman, Mr. F. J. Chance, opened the meeting at 6.45 p.m.

Apologies for absence were received from Messrs. Nix, Broadhurst, Bullivant, Martin and Bull.

Minutes of previous Meeting were accepted and read, copies having been sent to all members.

Arising from the Minutes, Secretary stated he had received a letter of thanks from the Matron of Horton Hospital for the gift to her Christmas Fund and also for the Administrator of the Birmingham Accident Hospital.

Correspondence. Secretary reported on a letter received from the Welsh Branch, asking what action the Midland Branch would take if a Testimonial Fund was started for the Treasurer, Mr. G. Jones. The Secretary stated this had been discussed at Council, and a mistake had been made when a previous Testimonial Fund was raised, by not including the Treasurer on that occasion, and the matter could not be very well altered and, in view of the fact that, as a slight recompense, Mr. Jones had been made a Vice-President of the Institution, there was nothing more we could do about it. The Secretary's reply was approved.

Election of Branch Secretary for 1952. The Chairman read a letter which he had received from Mr. W. Bullivant to the Meeting, which contained the following resolution: "That this Branch regrets the necessity for the resignation of Mr. F. H. Mills as Hon. Branch Secretary, and whilst reluctantly accepting same, places on record the very sincere thanks of each member of the Branch to Mr. Mills for his untiring efforts, which have at all times been of inestimable value to the Branch and Institution generally." It was agreed that this resolution be accepted by proxy and that Mr. Bullivant's letter be inserted in the Minute Book. A nomination was put forward concerning a member living in the Oxford area and as no agreement could be reached, the Secretary, Mr. F. H. Mills, said he was quite prepared to carry on for a time until a full meeting could be held with the members of the Oxford area present. This suggestion was accepted.

Donation to Matron's Fund of Birmingham Accident Hospital. Secretary stated that when a donation was granted for

the Horton Hospital, he felt it only right that we should give a similar gift to the Birmingham Accident Hospital, where most of our meetings were held, and had sent the sum of two guineas to the Matron of this Hospital. The Secretary's action was approved.

Council Meeting Report. Mr. E. D. Yates gave a very lengthy and precise report on the Council Meeting which was held in London on 3rd December, 1951, and the members were very alarmed at the proceeding concerned with the reduction of the size of Council, when it looked as though Branch representation was being ignored and were more startled when some figures were quoted on Council expenses. Mr. R. E. Rogers supported the report. In view of the seriousness of this report, after a lengthy discussion it was agreed that a Branch Meeting be held in Leamington on Saturday, 19th January, 1952, and that all members be urged to attend and the major points of the agenda should be the question of Branch Representation to Council and Council expenses.

Mr. Yates reported that the resolution sent to Council from the Midland Branch referring to the agenda for the Annual General Meeting, to be in the hands of members in sufficient time for Branch Meetings to be held to discuss matters on the agenda, was carried and agendas will be sent out three months prior to the Annual General Meeting.

The Institution Chairman, Mr. Tomlinson, stated that a large number of certificates were being signed by the President.

That concluded the Council report.

Whitley Council. Mr. R. E. Rogers gave an outline of the increases in salaries, which were to be issued by the Ministry of Health forthwith.

The Meeting then closed.

F. H. MILLS (*Branch Secretary*).

A Meeting of the Midland Branch was held at the Warneford Hospital, Leamington Spa, on Saturday, 19th January, 1952.

The Chairman, Mr. G. Siers, opened the Meeting at 2.30 p.m.

Apologies for absence were given for Messrs. Sankey, Yates, Bull, Martin and Baker.

Vote of thanks to Retiring Chairman. Mr. Siers from the Chair proposed a vote of thanks to Mr. F. J. Chance for the most able and sincere manner he had carried out the duties of Branch Chairman during the year 1951. This was seconded by Mr. F. H. Mills and supported by Mr. W. Bullivant on behalf of all the Oxford members. The vote was carried unanimously. Mr. Chance gave a very suitable reply.

Minutes of Previous Meeting. They were accepted as read. (Copies having been circulated to all members.)

Correspondence. The Secretary read a letter received from Mr. A. Tonks, Associate Member, who expressed his desire to resign his membership from the Institution. The Secretary explained that Mr. Tonks was one of the two members whose position was reviewed some time ago and the matter referred to Council. Although there had been some mistake in accepting their application, the Council were prepared to let them retain their membership. It was also pointed out that some subscriptions were due from this member and it must be brought to minds of persons offering to resign that they have signed a statement to the effect that all dues to the Institution will be paid up before their resignation can be accepted. It was agreed that this resignation be accepted and the matter referred to the General Secretary.

Correspondence from Educational Officer, Ministry of Fuel and Power, Reading. A letter had been received stating that the Ministry of Fuel and Power were desirous of carrying out a series of Lectures as a Refresher Course to Hospital Engineers and Assistants in the Oxford Area, and would like the co-operation of this Institution. Under the Chairmanship of Mr. W. Bullivant, several meetings had been held in Oxford with Mr. Kinsey and Mr. Hughes, of the Ministry of Fuel and Power, supported by our Oxford members, which included a meeting with the Secretary of the Oxford Regional Hospital Board, who gave his full support in helping to carry out the proposed course of Lectures. A further meeting was held at the Littlemore Hospital, Oxford, on 17th January, when Mr. F. H. Mills, Branch Secretary, was present, when final arrangements were made, amongst which were that an endeavour be made to provide residence for those who attended the course in one of the Colleges. That the course for Engineers should be held on 7th, 8th, 9th and 10th of April, and for Assistants on the 15th, 16th, 17th and 18th April. Prospective lecturers were suggested to cover the syllabus arranged.

The Chairman moved that the action which had been taken should be approved. Carried.

Election of Branch Secretary. Mr. F. J. Chance was proposed and seconded for the post of Branch Secretary. Mr. Chance stated he would be quite willing to accept the post if the members would approve of Mr. R. Nix acting as an Assistant, for, like most Group Engineers, Mr. Chance said his leisure time was limited. The Chairman put this to the vote, which was carried unanimously.

Branch Representation on Council. A long discussion then took place on the report submitted by the Branch delegates to the last Council Meeting, held in London on 3rd December, 1951. From all appearances, it was the intention of some members of Council that the smaller Council should consist of twelve members elected from those present at that Council Meeting. The members of the Midland Branch unanimously agreed that any Council that is formed must be representative of all Branches of the Institution. The following two resolutions were proposed and received a unanimous vote that they be placed on the Agenda for the next Council Meeting :—

- (1) That the Branch Areas should be modified so that the Branches coincide with the 14 areas of the Hospital Regional Boards.
- (2) That the Council should consist of one member only from each Branch and the only members to be co-opted to Council should be the General Secretary, Treasurer and one member from the Whitley Council delegates.

Council Expenses. A statement of accounts was read which showed an astonishing increase in the cost of Council Meetings, and particular notice was taken at the amount spent at the Annual General Meeting at Bournemouth.

The members of the Midland Branch wish the following resolution to be placed on the Agenda for the next Council Meeting :

“ That the Midland Branch review with much concern and alarm, the excessive amount being spent on Council Meetings, and hold the opinion that the amount spent at the Annual General Meeting on expenses and entertaining is far in excess of what the Institution are in a position to afford, and it is hoped that the Finance Committee will make every effort to see that the Institution finances are kept on a sound basis.”

Paid General Secretary. A member raised the matter concerning the appointment of a General Secretary. Advertisements had been in the National Press and several applications had been received, but it appears the Council had taken no action. It was

pointed out that the subscription had been raised with the intention of having sufficient finances to employ a Secretary. The Council are not fulfilling their duty. Agreed that the following resolution be sent to the General Secretary to be placed on the Agenda for the Council Meeting :

" That members of the Midland Branch desire that a full or part time paid Secretary be employed in accordance with the resolution which was carried at the Annual General Meeting at Bournemouth and, if the Council fail to carry out the making of this appointment, the additional amount placed on the annual subscription for the purpose of helping to pay a Secretary's salary, be removed forthwith."

Membership Certificate. The members are still concerned over the delay of issuing these certificates and hope the delegates to Council will bring this matter forward again.

A Vote of Thanks to the Matron and Secretary of the South Warwickshire Group was expressed by the Chairman for the use of the room and an excellent tea provided by the Matron. Carried unanimously.

Next Meeting to be held in February at Birmingham, to take the form of a visit to Messrs. Stotts Showrooms.

Meeting closed at 5 p.m.

MANUAL ON STEAM TRAPS

The misuse of steam traps and the scale of losses (both of heat and of plant output) due to that common cause seem to call for some form of simple directions on the subject. What appears to be needed is a guide to steam-trapping installations which can be quickly understood and easily followed by those who have anything to do with the ordering or fitting of steam traps, irrespective of technical training or engineering knowledge.

I have been able to obtain such a guide which has been produced by Spirax Manufacturing Co. Ltd. It is a slim little booklet on "How to fit Steam Traps," and although no bigger than a vest-pocket diary, covers practically every kind of steam-trapping installation.

The manual is so arranged that any item is located in a matter of seconds. It has an 8-page folded index sheet, on one side of which is a list of 50-odd common applications ; against each are

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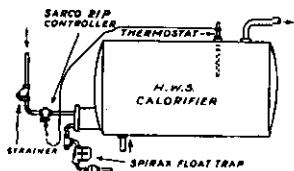
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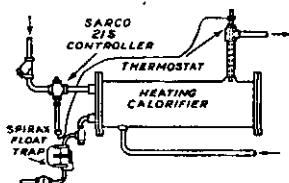
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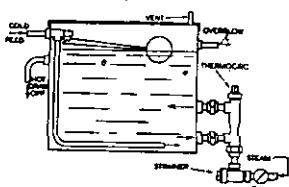
Sarco Temperature Controller giving on/off control on a hot-water storage calorifier.

1



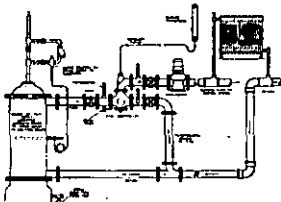
Sarco Temperature Controller giving gradual control on a non-storage heating calorifier.

2



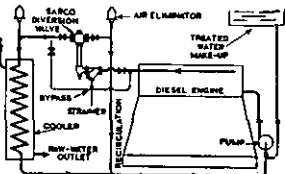
Sarco "Thermocirc" water-heater/temperature-regulator on small hot-water storage tank.

3



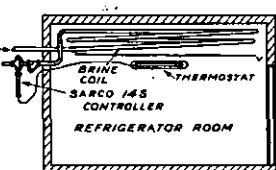
Sarco "E.T.O." Controller for advance control on accelerated hot-water heating systems.

4



Sarco 3-way Diversion Valve giving automatic control of Diesel engine cooling water temperature.

5



Sarco Temperature Controller with reverse acting valve controlling brine-refrigeration room.

6

given the first choice and second choice of steam trap type best suited to that particular job, with the reference number of the diagram and installation directions given elsewhere in the booklet.

On the reverse side of the 8-page index sheet are sectional illustrations of the common types of steam trap with a brief description of their operating characteristics.

The 50-odd installations in the body of the booklet, covering steam transmission lines, space heating and process steam applications are illustrated by clear-style diagrams accompanied by equally clear directions.

At the back of the manual are simplified graphs showing at a glance the condensate discharge capacities, at various steam pressures, of the different types of steam trap.

The manual seems a most useful reference for plant engineers, heating engineers' draughtsmen, heating engineers' foremen, and pipe fitters. No charge is being made for the booklet and copies should be obtained direct from Spirax Manufacturing Co. Ltd., Charlton House, Cheltenham, mentioning *The Hospital Engineer*.

EDITOR.

LONDON BRANCH

Meeting of the London Branch held at Westminster Hospital 19th January, 1952.

Meeting commenced 2.40 p.m. Members present 35. Chairman, H. Wright, Esq.

1. Paper by J. W. Parsons, M.J.I.E.

Subject—An investigation into the design and construction of Boiling Steriliser.

Full-scale examples of Bowl and Instrument Sterilisers were on view which Mr. Parsons had designed himself and which were in use in the hospitals in his Groups.

It was evident that Mr. Parsons had considerable experience in the design of sterilisers by the ease with which he answered the various questions put to him. It was considered by all present that the paper was an excellent one. Mr. Wright congratulated Mr. Parsons on his paper and proposed a vote of thanks which was heartily endorsed by the members.

2. Minutes of the last Meeting.

Mr. Roxburgh did not agree with the phrasing of the paragraph "that agreement had been reached between the Management and Staff sides, that an all-round increase in the form of a cost-of-living bonus had been awarded."

It was agreed to alter this to read: "That agreement had been reached between the Management and Staff sides that an all-round increase in salary had been awarded."

3. Matters arising from the Minutes.

There were none.

4. To receive Applications for Membership.

Mr. H. Herbert, proposed by Mr. James, seconded by Mr. P. Vedast, was recommended for Associate Membership. Proposition carried.

Mr. Sidney Read, proposed by Mr. Dagleish, seconded by Mr. Woolsey, was recommended by Associate Membership. Proposition carried.

5. To receive proposition by Mr. G. Quenet :

"That conditions of service, reference P.T.B.3, be the subject for discussion, having in view the need for its revision."

After a lengthy discussion on this matter it was decided that a Sub-Committee be elected to examine and report on their proposals.

The Sub-Committee appointed were as follows: Messrs. Sarfas, Simms, Morton, Parsons (Convenor), Magee, Roxburgh, Wingett, Castle, Vedast, Quenet and Wright.

The terms of reference were to discuss P.T.B.3 in its widest applications and to report progress to this Branch.

6. To arrange the Programme of Technical Papers for 1952.

The following agreed to read Technical Papers :—

February	Meeting	Mr. Freeborn	The electrical pre-treatment of Hard Water to prevent scale.
March	"		P.T.B. report on progress.
April	"	Mr. Palmer	Cable Fault Location.
May	"		Annual Dinner.
June	"		Feedwater Specialists.
July	"	Mr. Castle	
August	"		Open.
September	"	Mr. Rumble	Subject Later.
October	"	Mr. E. V. Jones	" "
November	"	Mr. Magee	" "

7. To Receive Correspondence.

Letters were read from Mr. Grummett, Mr. Stoneman, and Mr. H. Wright.

Mr. Grummett and Mr. Stoneman recommended for Hon. Members. Secretary was instructed to write to both members.

8. Sub-Committee Report.

Mr. Woolsey reported on the arrangements made for the Works visit to Messrs. Dewrance.

9. Any Other Business.

Mr. Parsons asked the Meeting for permission to open a Banking Account for the London Branch.

It was proposed by Mr. Dagleish and seconded by Mr. Lee "that an account be opened on a temporary basis with the National Bank."

Mr. Quenet proposed and Mr. Roxburgh seconded an amendment "that a banking account be opened with Barclay's."

The amendment was carried.

Mr. Roxburgh remarked that, although agreement had been reached between the Management and Staff sides concerning the recent increase in salary, implementation had not yet taken place.

The Meeting closed at 7.40 p.m.

H. WRIGHT.



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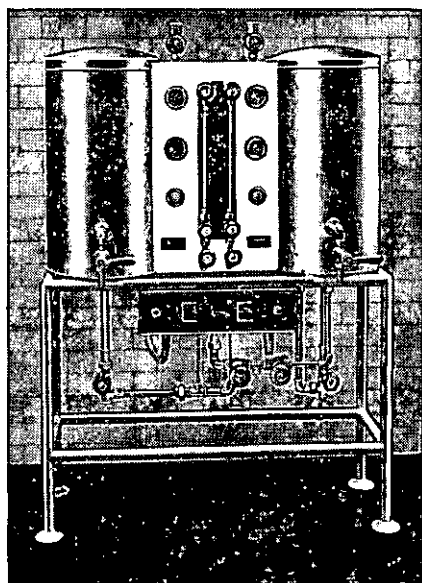
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