THE RINGING WORLD

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TUNE RINGING

EXCEPT in the case of the carillon the musical world takes little cognisance of the contribution the bell can make to the realm of music. Nevertheless, the bell has as sweet a note to the ear as any instrument. Attention to the contribution of the bell in the realm of music has been focused by a little book written by the Rev. J. M. Turner, Rector of Washfield, Devon, and late president of the North-East Devon Guild of Ringers, entitled 'The Art and Science of Hand Bell Ringing.'

This publication is timely. Frequent inquiries have been addressed to the editor for information regarding tune ringing on handbells and appropriate music. While this might be regarded as outside the purview of change ringing, he did make inquiries in the musical publishing world, and had with regret to report that there was nothing helpful. While there is no lack of evidence as to the popularity of tune ringing, the initiative has rested with the individual conductors and trainers of the band or such accomplished artists in handbell ringing as Mrs. Albert Hughes.

Change ringing and tune ringing on handbells are two different arts and it does not follow that handbell ringers, as we in the Exercise know them, are able to oblige with a musical interlude at a parish social or similar function. To many members of the public the inability of ringers to provide musical numbers is not understandable, and their failure to render such airs as 'The Bluebells of Scotland' or 'Drink to me only' is regarded as childish behaviour. Nevertheless, there are companies of ringers capable of and specialising in giving musical performances of a high standard. The late Mr. J. S. Goldsmith, in his book on the Australian tour, mentions how the English tourists practised popular airs in secret to give a turn at the ship's concert and, judging by all accounts, it proved to be highly popular.

The Rev. J. M. Turner points out that several methods have been adopted for the instruction of tune ringers, some being very complicated and difficult by their signs and figures; some ringers play from memory, others by a scheme of numbers, others by enlarged notes on the copies of each ringer, circular or squared. He advocates strongly the old musical notation universally used and points out that it frees the conductor from the laborious task of copying out figures, which, when done, gives no indication of key or tune. In ringing from musical notation every ringer is able to follow any tune and ring his bell at the proper time, neither too quick nor too slow. If the set is large enough the parts treble, alto, tenor and bass may be put in and thus add to the richness of the music.

The art of ringing a handbell is familiar to many, probably the majority, of our readers. The points the author makes are: The strangeness of holding the bell by a leathern strap handle; the motion of the clapper to and fro; the bell should be rung simply by a wrist movement; and the regulating of the volume of the sound of the bell—loud or soft. The last-named process is accomplished by regulating the swing of the clapper.

The ringing of a handbell is not learned in five minutes, The bell must be firmly grasped by the strap close to the top. As the motion of the hand is normally up and down, the bell should be so held that the clapper rises and falls. The up stroke, generally the harder, is accomplished by putting on a kind of brake with the thumb pressed on the top of the bell.

An essential accomplishment in tune bell ringing is to ring two bells in each hand. The explanation given by Mr. Turner is as follows: 'Place the four bells on the table left to right, up the scale like the notes of a piano, e.g., A, B, C, D. Put your forefingers in the form of a V sign, slide them down the straps A and C, palm inwards, grasp B and D firmly in the hollow of the thumb and lift each with mouth upwards. You will find that the clappers are at right angles. A downward movement will ring one bell alone, and a sideways movement the other alone. Remember that it is the wrist movement that is essential, not from the shoulder or elbow.'

A team of ringers should always stand having the lower bells on the left hand and the higher on the right, corresponding to the position of a pianist or organist. Each individual ringer should have his bells in each hand accordingly. If he is ringing two bells in one hand, the lower bell should be the one with its strap between his forefinger, with the strap of the higher bell in the hollow of his thumb. The position of the bells in hand will now indicate higher or lower as well as the sound or letter note on the strap. The lower bell clapper will strike up or down and the higher bell clapper sideways.

The range of performance depends on the number of bells the band possesses. A set of 14 bells will only take in the treble and alto, but a set of three-octave bells with all the semitones, numbering 37 bells (the chromatic scale), will perform wonders in music. It is advocated that the most expert ringers should be placed in the middle section and able to follow whether a bell is alto or tenor. Copies may be obtained from the author, price 3s. 6d. post free.

TWELVE BELL PEALS

OXFORD.
THE OXFORD DIOCESAN GUILD.
On Fri., Mar. 24, 1950, in 3 Hours and 48 Minutes,
AT THE CATHEDRAL CHURCH OF CHRIST,
A PEAL OF YORKSHIRE SURPRISE MAXIMUS, 5280 CHANGES;
Tenor 30 cwt.

WALTER F. JUDGE	*Treble*	*WILLIAM C. PORTER	7
*MARGARET L. TUTT	2	*MICHAEL E. H. BARROW	8
*RUTH M. K. HOW	3	*J. RICHARD CHAUNDY	9
*MARIE R. CROSS	4	*VICTOR J. F. BENNETT	10
*JAMES HIGGINS	5	FREDK. A. H. WILKINS	11
*PHILIP WALKER	6	WILFRID F. MORETON	*Tenor*

Conducted by WALTER F. JUDGE.

* First peal of Yorkshire Surprise Maximus.

LONDON.
THE ANCIENT SOCIETY OF COLLEGE YOUTHS.
On Sat., Mar. 25, 1950, in 4 Hours and 6 Minutes,
AT THE CATHEDRAL CHURCH OF ST. SAVIOUR, SOUTHWARK,
A PEAL OF CAMBRIDGE SURPRISE MAXIMUS, 5280 CHANGES;
Tenor 50 cwt.

G. WILLIAM CRITCHLEY	*Treble*	ANTHONY W. J. APPLETON	7
WALTER F. JUDGE	2	JOHN PHILLIPS	8
CHARLES W. ROBERTS	3	W. BERTRAM KYNASTON	9
ARTHUR D. COOK	4	GEORGE E. FEARN	10
WILFRID F. MORETON	5	FREDK. E. COLLINS	11
FREDK. A. H. WILKINS	6	ALAN R. PINK	*Tenor*

Composed by FRED. DENCH. Conducted by WALTER F. JUDGE.

LEICESTER.
THE LEICESTER DIOCESAN GUILD.
On Mon., Mar. 27, 1950, in 3 Hours and 41 Minutes,
AT THE CATHEDRAL CHURCH OF ST. MARTIN,
A PEAL OF ALDENHAM SURPRISE MAXIMUS, 5280 CHANGES,
Tenor 25 cwt.

*JOHN B. BENNETT	*Treble*	*TERENCE A. THORNBER	7
*ELIZABETH FAULKNALL	2	*†N. GERARD MCCRUM	8
PETER J. STANIFORTH	3	SIDNEY O. CHENEY	9
HAROLD J. POOLE	4	*LAWRENCE GREENHOW	10
HARRY G. WAYNE	5	‡JOHN R. SMITH	11
SHIRLEY BURTON	6	HERRICK B. BOWLEY	*Tenor*

Conducted by PETER J. STANIFORTH.

* First peal of Maximus in the method. † 25th peal. ‡ 100th peal.

WALSALL, STAFFORDSHIRE.
THE SOCIETY FOR THE ARCHDEACONRY OF STAFFORD.
On Sat., Apr. 1, 1950, in 3 Hours and 20 Minutes,
AT THE CHURCH OF ST. MATTHEW,
A PEAL OF STEDMAN CINQUES, 5005 CHANGES;
Tenor 26¼ cwt. in D.

HOWARD HOWELL	*Treble*	P. GEORGE GOLDER	7
HARRY F. HOLDING	2	ARTHUR T. DUTTON	8
GEORGE E. OLIVER	3	ALAN ELSMORE	9
RICHARD D. LANGFORD	4	GORDON HARRISON	10
MAURICE G. TURNER	5	JOHN N. LINDON	11
GEORGE A. PACKER	6	*ALBERT G. RICHARDS	*Tenor*

Composed by FRANK W. PERRENS. Conducted by HOWARD HOWELL.

* First peal on twelve bells. Rung as a compliment to Miss I. P. Brown and Mr. R. G. Uffindell on the occasion of their wedding at this church.

TEN BELL PEALS

LOUGHBOROUGH, LEICESTERSHIRE.
THE LEICESTER DIOCESAN GUILD
On Thurs., Mar. 30, 1950, in 2 Hours and 32 Minutes,
AT THE BELL FOUNDRY CAMPANILE,
A PEAL OF ALDENHAM SURPRISE ROYAL, 5040 CHANGES;
Tenor 6½ cwt.

PAUL L. TAYLOR	*Treble*	SHIRLEY BURTON	6
HAROLD J. POOLE	2	SIDNEY O. CHENEY	7
*TERENCE A. THORNBER	3	*FREDK. J. MILNER	8
PETER J. STANIFORTH	4	*HERRICK B. BOWLEY	0
ALFRED BALLARD	5	*GEORGE E. FEARN	*Tenor*

Composed by CHAS. J. SEDGLEY. Conducted by P. J. STANIFORTH.

* First peal of Royal in the method.

BRIGHTON, SUSSEX.
THE SUSSEX COUNTY ASSOCIATION.
On Sat., Apr. 1, 1950, in 3 Hours and 22 Minutes,
AT THE CHURCH OF ST. PETER,
A PEAL OF PLAIN BOB ROYAL, 5040 CHANGES;
Tenor 25½ cwt.

*ROGER BEALE	*Treble*	*BASIL W. WHITE	6
ALBERT W. BOND	2	*HERBERT W. WOOLVEN	7
*FRANK HOWE	3	HENRY STALHAM	8
ARTHUR W. GRAVETT	4	*WM. H. HARGREAVES	9
FRANK BENNETT	5	†MAURICE THOMAS	*Tenor*

Composed by H. J. TUCKER. Conducted by FRANK BENNETT.

* First peal on ten bells. † First peal of Royal. A birthday compliment to Mr. W. C. Hart.

PONTEFRACT, YORKSHIRE.
THE YORKSHIRE ASSOCIATION.
On Sat., Apr. 1, 1950, in 3 Hours and 24 Minutes,
AT THE CHURCH OF ST. GILES,
A PEAL OF PONTEFRACT SURPRISE ROYAL, 5040 CHANCES;
Tenor 18 cwt. in E.

*JAMES THORLEY	*Treble*	†GIBSON JACKSON	6
F. BERNARD DITCHER	2	ALAN ROGERS	7
MILTON C. FOWLER	3	LESLIE W. G. MORRIS	8
W. ERIC CRITCHLEY	4	J. FREDERICK MILNER	9
J. EDWARD CAWSER	5	ERNEST A. THORPE	*Tenor*

Composed and Conducted by J. EDWARD CAWSER.

* First peal on ten bells and 50th peal. † First peal of Surprise Royal. First peal of Surprise on the bells. The first peal rung in this method, No. 534 in A. J. Corrigan's collection and published in 'The Ringing World,' April 14th, 1933.

EIGHT BELL PEALS

LONDON.
LONDON COUNTY ASSN. & N. SOUTHWARK DIOCESAN GUILD.
On Sat., Feb. 18, 1950, in 2 Hours and 53 Minutes,
AT THE CHURCH OF ST. MARY, BATTERSEA, S.W.,
A PEAL OF KENT TREBLE BOB MAJOR, 5088 CHANGES;
Tenor 13 cwt. 3 qr.

PETER J. HUTCHINGS	*Treble*	THOMAS W. TAFFENDER	5
THOMAS H. TAFFENDER	2	*STEPHEN J. HART	6
AUDREY M. CASTLE	3	WILLIAM D. GRAINGER	7
*ERIC J. BEAUCHAMP	4	JAMES BULLOCK	*Tenor*

Composed by O. LANG. Conducted by THOMAS H. TAFFENDER.

* First peal of Major and in the method.

WILLESDEN, MIDDLESEX.
MIDDLESEX COUNTY ASSN. AND LONDON DIOCESAN GUILD.
On Thurs., Mar. 23, 1950, in 2 Hours and 39 Minutes,
AT THE CHURCH OF ST. MARY,
A PEAL OF BRISTOL SURPRISE MAJOR, 5024 CHANGES;
Tenor 10 cwt.

LEONARD H. BOWLER	*Treble*	ALICK CUTLER	5
MRS. J. THOMAS	2	MAURICE HODGSON	6
JOHN THOMAS	3	ALFRED J. HOUSE	7
RICHARD F. B. SPEED	4	CHARLES W. ROBERTS	*Tenor*

Composed by A. KNIGHTS. Conducted by CHARLES W. ROBERTS.

FRODSHAM, CHESHIRE.
THE CHESTER DIOCESAN GUILD.
On Fri., Mar. 24, 1950, in 3 Hours and 10 Minutes,
AT THE CHURCH OF ST. LAWRENCE,
A PEAL OF WEMBLEY SURPRISE MAJOR, 5088 CHANGES;
Tenor 12½ cwt. in F.

OSWALD CLAYBROOK	*Treble*	CYRIL VALENTINE	5
EDWARD JENKINS	2	ERIC J. GILBERT	6
WALTER ALLMAN	3	RALPH G. EDWARDS	7
JOHN E. BIBBY	4	JAMES C. E. SIMPSON	*Tenor*

Composed by J. W. WASHBROOK. Conducted by J. C. E. SIMPSON.

First peal in the method by all the band, for the Guild and on the bells.

MOSSLEY, LANCASHIRE.
THE LANCASHIRE ASSOCIATION.
On Fri., Mar. 24, 1950, in 2 Hours and 57 Minutes,
AT THE CHURCH OF ST. GEORGE,
A PEAL OF BELGRAVE SURPRISE MAJOR, 5024 CHANGES;
Tenor 13 cwt.

ARTHUR THOMLINSON	*Treble*	ALAN J. BROWN	5
STEPHEN L. PARRY	2	DAVID VINCENT	6
SELWYN H. DEARDEN	3	PHILIP H. TOCOCK	7
C. KENNETH LEWIS	4	FRED DUNKERLEY	*Tenor*

Composed by H. W. WILDE. Conducted by FRED DUNKERLEY.

First touch of Belgrave for 1, 2, 3, 5, 6 and 7.

EAST HAGBOURNE, BERKSHIRE.
THE OXFORD DIOCESAN GUILD.
On Sat., Mar. 25, 1950, in 3 Hours and 6 Minutes,
AT THE CHURCH OF ST. ANDREW,
A PEAL OF STEDMAN TRIPLES, 5040 CHANGES;
A variation of Thurstans' Four-part. Tenor 22 cwt.

MARGARET L. TUTT	*Treble*	JAMES GORDON	5
ROBERT B. BLOND	2	HENRY L. BISHOP	6
*JAMES P. BLOND	3	ALFRED H. WEBB	7
GEORGE W. BISHOP	4	JACK C. NAPPER	*Tenor*

Conducted by MARGARET L. TUTT.
* First peal in the method. First peal in the method as conductor.

KIRTLINGTON, OXFORDSHIRE.
THE OXFORD DIOCESAN GUILD.
On Sun., Mar. 26, 1950, in 3 Hours and 20 Minutes,
AT THE CHURCH OF ST. MARY,
A PEAL OF SPLICED SURPRISE MAJOR, 5120 CHANGES;
Comprising 640 London, 320 each of New Gloucester, Bristol, Wordsworth, Lindum, Eastcote, Norfolk, Yorkshire, Cambridge and Lincolnshire, and 160 each of Langley, Heathcote, Rutland, Pudsey, Watford, Hitchin, Uxbridge, Superlative, Framley and Wembley, with 139 changes of method. Tenor 16½ cwt.

WILLIAM C. PORTER	*Treble*	ALAN R. PINK	5
VICTOR J. F. BENNETT	2	WILFRID F. MORETON	6
MARGARET L. TUTT	3	FREDK. A. H. WILKINS	7
MARIE R. CROSS	4	WALTER F. JUDGE	*Tenor*

Composed by ALBERT J. PITMAN. Conducted by WALTER F. JUDGE.
First peal of Spliced Surprise Major in 20 methods by all the band.

WATH-ON-DEARNE, YORKSHIRE.
THE YORKSHIRE ASSOCIATION.
On Mon., Mar. 27, 1950, in 2 Hours and 59 Minutes,
AT THE CHURCH OF ALL SAINTS,
A PEAL OF WAKEFIELD SURPRISE MAJOR, 5024 CHANGES;
Tenor 13 cwt.

JAMES THORLEY	*Treble*	ALAN ROGERS	5
F. BERNARD DITCHER	2	GIBSON JACKSON	6
*MILTON C. FOWLER	3	*J. EDWARD CAWSER	7
J. FREDERICK MILNER	4	W. ERIC CRITCHLEY	*Tenor*

Composed by W. E. CRITCHLEY. Conducted by J. EDWARD CAWSER.
* 100th peal together. The first peal rung in this method. In memoriam John Thorpe, of Sheffield.

ALREWAS, STAFFORDSHIRE.
THE SOCIETY FOR THE ARCHDEACONRY OF STAFFORD.
On Wed., Mar. 29, 1950, in 3 Hours,
AT THE CHURCH OF ALL SAINTS,
A PEAL OF GRANDSIRE TRIPLES, 5040 CHANGES;
Parker's Twelve-part. Tenor 12 cwt.

*BETTY CROSSMAN (16)	*Treble*	JOAN BERESFORD	5
†JUNE BRINDLEY (15)	2	WALTER J. COPE	6
FRANCIS A. SEDGWICK	3	GEORGE E. OLIVER	7
DENNIS BERESFORD	4	PETER BERESFORD	*Tenor*

Conducted by JOAN BERESFORD.
* First peal. † First peal 'inside.'

HETHERSETT, NORFOLK.
THE NORWICH DIOCESAN ASSOCIATION.
On Wed., Mar. 29, 1950, in 2 Hours and 55 Minutes,
AT THE CHURCH OF ST. REMIGIUS,
A PEAL OF PLAIN BOB MAJOR, 5184 CHANGES;
Tenor 9 cwt. 74 lb. in G.

CHARLES H. MOORE	*Treble*	RAYMOND G. LOFTY	5
GORDON ELVIN	2	F. CHARLES GOODMAN	6
GEORGE H. MOORE	3	NOLAN GOLDEN	7
*DAVID HALL	4	GEORGE SAYER	*Tenor*

Composed by NOLAN GOLDEN. Conducted by GEORGE SAYER.
* First peal.

OXFORD.
THE OXFORD DIOCESAN GUILD.
On Fri., Mar. 31, 1950, in 2 Hours and 39 Minutes,
AT THE CHURCH OF ST. EBBE,
A PEAL OF PLAIN BOB MAJOR, 5056 CHANGES;
Tenor 4¾ cwt.

WALTER F. JUDGE	*Treble*	CHARLES COLES	5
WILLIAM H. B. WILKINS	2	MICHAEL E. H. BARRON	6
EDWIN G. MOORE	3	FREDK. A H. WILKINS	7
MARGARET L. TUTT	4	WILLIAM C. PORTER	*Tenor*

Composed by J. R. PRITCHARD. Conducted by WM. C. PORTER.
First peal of Major as conductor.

TUNBRIDGE WELLS, KENT.
THE KENT COUNTY ASSOCIATION.
On Fri., Mar. 31, 1950, in 2 Hours and 58 Minutes,
AT THE CHURCH OF ST. PETER,
A PEAL OF DOUBLE NORWICH COURT BOB MAJOR, 5024 CHANGES;
Tenor 14 cwt. 2 lb. in F.

HENRY N. VAUGHAN	*Treble*	ROBERT COLLINS	5
WALTER H. DOBBIE	2	DORIS E. COLGATE	6
ARTHUR F. LEWRY	3	CHARLES A. BASSETT	7
BERNARD COLLISON	4	THOMAS E. SONE	*Tenor*

Composed by C. W. ROBERTS. Conducted by THOMAS E. SONE.
An 86th birthday compliment to William Collison. The conductor has now circled the tower.

BEDDINGTON, SURREY.
THE SURREY ASSOCIATION.
On Sat., Apr. 1, 1950, in 3 Hours and 5 Minutes,
AT THE CHURCH OF ST. MARY,
A PEAL OF PLAIN BOB MAJOR, 5056 CHANGES;
Tenor 18 cwt. 1 qr. 20 lb. in E flat.

DAVID E. PARSONS	*Treble*	PHILIP A. F. CHALK	5
FRANK E. DARBY	2	*LEONARD A. REECE	6
JOHN E. CHILCOTT	3	FREDERICK E. COLLINS	7
JOHN W. STEVENSON	4	FRANK D. JENNINGS	*Tenor*

Composed by J. R. PRITCHARD. Conducted by FRANK E. DARBY.
* First peal. Frank D. Jennings has now rung each bell in this tower to a peal. In memoriam Cyril F. Johnston.

EWHURST, SURREY.
THE GUILDFORD DIOCESAN GUILD.
On Sat., Apr. 1, 1950, in 3 Hours,
AT THE CHURCH OF SS. PETER AND PAUL,
A PEAL OF YORKSHIRE SURPRISE MAJOR, 5088 CHANGES;
Tenor 11 cwt.

*PAMELA A. WARREN	*Treble*	C. ERNEST SMITH	5
†T. MARK WHITE	2	WILLIAM T. BEESON	6
*JOHN A. ETHERINGTON	3	GEORGE L. GROVER	7
WILLIAM J. ROBINSON	4	†HAROLD A. MAY	*Tenor*

Conducted by HAROLD A. MAY.
* First peal in the method. † 50th peal together. First peal in the method as conductor.

HEDON, YORKS.
THE YORKSHIRE ASSOCIATION.
On Sat., Apr. 1, 1950, in 3 Hours and 25 Minutes,
AT THE CHURCH OF ST. AUGUSTINE,
A PEAL OF GRANDSIRE TRIPLES, 5040 CHANGES;
Tenor 17 cwt. 1 qr. 19 lb.

*ALFRED T. TAYLOR	*Treble*	THOMAS SOUTHWICK	5
LEONARD RODMELL	2	JOHN W. HOBSON	6
*LEONARD STRAKER	3	CHARLES BARKER	7
GEORGE F. WILLIAMS	4	†DAVID FEWSTER	*Tenor*

Composed by J. J. PARKER. Conducted by GEORGE F. WILLIAMS.
* First peal. † First peal on eight bells.

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HEYDOUR, LINCOLNSHIRE.
THE LINCOLN DIOCESAN GUILD.
On Sat., Apr. 1, 1950, in 3 Hours and 2 Minutes,
AT THE CHURCH OF ST. MICHAEL AND ALL ANGELS,
A PEAL OF KENT TREBLE BOB MAJOR, 5024 CHANGES;
Tenor 12 cwt. 3 qr. 2 lb. in F.

JAMES H. MUSSON	*Treble*	*OWEN A. NEEDHAM	5
*LORNA BRIGGS	2	WILLIAM E. CLARKE	6
*DONOVAN R. WHITE	3	CHARLES E. BROWN	7
MARGARET A. SWANN	4	JACK L. MILLHOUSE	*Tenor*

Composed by GABRIEL LINDOFF. Conducted by J. L. MILLHOUSE.
* First peal of Kent Treble Bob Major. A birthday compliment to Mrs. J. Needham, mother of the ringer of the fifth.

PENKRIDGE, STAFFORDSHIRE.
THE SOCIETY FOR THE ARCHDEACONRY OF STAFFORD.
On Sat., Apr. 1, 1950, in 3 Hours and 9 Minutes,
AT THE COLLEGIATE CHURCH OF ST. MICHAEL AND ALL ANGELS,
A PEAL OF PLAIN BOB MAJOR, 5056 CHANGES;
Tenor 16 cwt. 49 lb.

*PAUL FISHER	*Treble*	TREVOR REYNOLDS	5
MARY E. ELKINGTON	2	RICHARD J. WARRILOW	6
†FRANK H. ELEY	3	ARTHUR PRITCHARD	7
ERIC E. SPEAKE	4	J. DENNIS HOLDEN	*Tenor*

Composed by J. R. PRITCHARD. Conducted by J. D. HOLDEN.
* First peal. † First peal on a working bell and first peal of Major. First peal of Major as conductor.

SANDBACH, CHESHIRE.
THE CHESTER DIOCESAN GUILD.
On Sat., Apr. 1, 1950, in 3 Hours and 24 Minutes,
AT THE CHURCH OF ST. MARY,
A PEAL OF KENT TREBLE BOB MAJOR, 5120 CHANGES;
Reeves' Five-part. Tenor 16 cwt.

ALBERT H. BOOTH	*Treble*	HENRY PARKER	5
*DAVID GODFREY	2	HAROLD WORRALL	6
HARRY W. HOWARD	3	CECIL RADDON	7
ERIC HORNBY	4	DAVID SMITH	*Tenor*

Conducted by DAVID SMITH.
* First peal of Major in the method. First peal of Treble Bob as conductor.

WHITCHURCH, HAMPSHIRE.
THE WINCHESTER AND PORTSMOUTH DIOCESAN GUILD.
On Sat., Apr. 1, 1950, in 3 Hours and 6 Minutes,
AT THE CHURCH OF ALL HALLOWS,
A PEAL OF KENT TREBLE BOB MAJOR, 5088 CHANGES;
Tenor 16 cwt.

*JOYCE COX	*Treble*	ARCHIBALD L. MITCHELL	5
OSCAR G. SMART	2	JOHN H. HUNT	6
NELIA M. LEAHY	3	CHARLES H. KIPPIN	7
MAURICE J. BUTLER	4	NORMAN V. ANDREWS	*Tenor*

Composed by THOS. B. WORSLEY. Conducted by CHAS. H. KIPPIN.
* First peal of Major. First peal in the method on the bells. Rung as a compliment to Mr. Harry Clarke on completion of 48 years' service as captain at the above church.

SIX BELL PEALS

CANTERBURY, KENT.
THE KENT COUNTY ASSOCIATION.
On Sat., Mar. 25, 1950, in 3 Hours,
AT THE CHURCH OF ST. DUNSTAN,
A PEAL OF PLAIN BOB MINOR, 5040 CHANGES;
Being seven extents. Tenor 16 cwt. in F.

*DEREK WILSDEN	*Treble*	JAMES STOCKBRIDGE	4
MRS. G. STOCKBRIDGE	2	BRENDA PHILPOTT	5
†A. CHARLES PHILPOTT	3	†DEREK CHATFIELD	*Tenor*

Conducted by BRENDA PHILPOTT.
* First peal. † First peal 'inside.' First peal as conductor. Believed to be the first peal on the bells. Rung as a 21st birthday compliment to the conductor.

MEREWORTH, KENT.
THE KENT COUNTY ASSOCIATION.
On Sat., Mar. 25, 1950, in 2 Hours and 57 Minutes,
AT THE CHURCH OF ST. LAWRENCE,
A PEAL OF MINOR, 5040 CHANGES;
Being one extent each of Oxford Treble Bob, Kent Treble Bob, Double Court, College Single, Single Oxford, Reverse Canterbury and Plain Bob. Tenor 11 cwt.

WILLIAM R. MANSER	*Treble*	GEORGE F. CANTRILL	4
TOM SAUNDERS	2	LUTHER J. HONESS	5
FRANK P. WRIGHT	3	PETER C. WRIGHT	*Tenor*

Conducted by PETER C. WRIGHT.
First of Minor in seven methods by all except the conductor. A 75th birthday compliment to the treble ringer's father.

WYBUNBURY, CHESHIRE.
THE CHESTER DIOCESAN GUILD.
On Sat., Mar. 25, 1950, in 2 Hours and 55 Minutes,
AT THE CHURCH OF ST. CHAD,
A PEAL OF PLAIN BOB MINOR, 5040 CHANGES;
Seven different 720's. Tenor 16 cwt. (approx.).

M. ROY BOYER	*Treble*	HAROLD G. SMITH	4
HERBERT SUTTON	2	FRANK OLLIER	5
EDWARD J. BOFFEY	3	FREDERICK S. SUTTON	*Tenor*

Conducted by FREDERICK S. SUTTON.
A birthday compliment to the ringer of the 5th.

HAZELBURY PLUCKNETT, SOMERSET.
THE BATH AND WELLS DIOCESAN ASSOCIATION.
On Tues., Mar. 28, 1950, in 2 Hours and 45 Minutes,
AT THE CHURCH OF ST. MICHAEL AND ALL ANGELS,
A PEAL OF PLAIN BOB MINOR, 5040 CHANGES;
Seven 720's. Tenor 8½ cwt.

HERBERT W. PEARCE	*Treble*	WALTER H. POOLE	4
*STANLEY A. GUPPY	2	RONALD WHITE	5
FREDA M. POOLE	3	WILLIAM E. TURNER	*Tenor*

Conducted by WILLIAM E. TURNER.
* First peal of Minor. First peal on the bells.

MILTON ERNEST, BEDFORDSHIRE.
THE BEDFORDSHIRE ASSOCIATION.
On Thurs., Mar. 30, 1950, in 2 Hours and 41 Minutes,
AT THE CHURCH OF ALL SAINTS,
A PEAL OF DOUBLES, 5040 CHANGES;
Being two extents of St. Simon's and twenty extents each of Grandsire and Plain Bob. Tenor 11½ cwt. in G.

*STEPHEN IVIN	*Treble*	*CHRIS. G. WOODHEAD	4
*JOHN B. LONG	2	*J. MICHAEL STEPHENS	5
†RICHARD W. STEPHENS	3	†RALPH BONNETT	*Tenor*

Conducted by J. MICHAEL STEPHENS.
* First peal of Doubles. † First peal. First peal on tower bells by a band composed entirely of past and present members of Bedford School.

BLOXHALL, SUFFOLK.
THE SUFFOLK GUILD.
On Sat., Apr. 1, 1950, in 2 Hours and 50 Minutes,
AT THE CHURCH OF ST. PETER,
A PEAL OF MINOR, 5040 CHANGES;
Being two 720's each of Kent and Oxford Treble Bob and three 720's of Plain Bob, each called differently. Tenor 9 cwt.

A. E. SMITH	*Treble*	*G. KEEBLE	4
F. SHAW	2	A. S. PIPE	5
J. SMY	3	A. G. LING	*Tenor*

Conducted by A. G. LING.
* First peal of Minor.

COSBY, LEICESTERSHIRE.
THE LEICESTER DIOCESAN GUILD.
On Sat., Apr. 1, 1950, in 2 Hours and 44 Minutes,
AT THE CHURCH OF ST. MICHAEL AND ALL ANGELS,
A PEAL OF PLAIN BOB MINOR, 5040 CHANGES;
Being seven different extents. Tenor 12 cwt.

FREDERICK WATSON	*Treble*	PETER HALLAM	4
GEORGE PICKERING	2	JOSEPH TAYLOR	5
ERNEST MORRIS	3	REGINALD E. TIPLER	*Tenor*

Conducted by ERNEST MORRIS.
In memoriam C. Marshall, who was accidentally killed April 1st, 1949.

CROMHALL, GLOUCESTERSHIRE.
THE GLOUCESTER AND BRISTOL DIOCESAN ASSOCIATION.
On Sat., Apr. 1, 1950, in 2 Hours and 47 Minutes,
AT THE CHURCH OF ST. ANDREW,
A PEAL OF GRANDSIRE DOUBLES, 5040 CHANGES;
Being 42 six-scores, ten callings. Tenor 12½ cwt.

ROY HOLPIN	*Treble*	HAROLD HOBBS	4
JOAN BUSSEY	2	*WILLIAM RICHINGS	5
LESLIE BARRY	3	*CHARLES LARNER	*Tenor*

Conducted by JOAN BUSSEY.
* 25th peal. First peal as conductor. A birthday compliment to Mrs. G. Bussey, mother of the conductor.

SNODLAND, KENT.
THE KENT COUNTY ASSOCIATION.
On Sat., Apr. 1, 1950, in 2 Hours and 41 Minutes,
AT THE CHURCH OF ALL SAINTS,
A PEAL OF PLAIN BOB MINOR, 5040 CHANGES;
Being seven 720's, called differently. Tenor 10 cwt. in G.

WILLIAM A. J. KNIGHT	*Treble*	†TREVOR A. CROSS	4
*FRANCIS J. CHEAL	2	CYRIL S. JARRETT	5
GLADYS K. JARRETT	3	*VICTOR A. JARRETT	*Tenor*

Conducted by CYRIL S. JARRETT.
* 25th peal together. † 25th peal. First peal as conductor.

SUTTON VENY, WILTSHIRE.
THE SALISBURY DIOCESAN GUILD.
On Sat., Apr. 1, 1950, in 2 Hours and 55 Minutes,
AT THE CHURCH OF ST. JOHN-THE-EVANGELIST,
A PEAL OF LONDON SURPRISE MINOR, 5040 CHANGES;
Being seven extents. Tenor 8½ cwt.

JACK MUSSELL ...	...*Treble*	JOHN HARTLESS	4
JEAN M. BROWN	2	FRANK L. HARRIS	5
HERBERT H. ABRAHAMS	3	RONALD N. MARLOW ...	*Tenor*

Conducted by FRANK L. HARRIS.
First peal in the method by all the band. Believed to be the first peal on the bells.

WYCHBOLD, WORCESTERSHIRE.
THE WORCESTERSHIRE AND DISTRICTS ASSOCIATION.
On Sat., Apr. 1, 1950, in 2 Hours and 43 Minutes,
AT THE CHURCH OF ST. MARY DE WYCHE,
A PEAL OF MINOR, 5040 CHANGES;
Being one 720 each of London, York and Cambridge Surprise, Double Oxford, St. Clement's, Oxford Treble Bob and Kent Treble Bob. Tenor 11½ cwt.

ALLEN MORGAN ...	...*Treble*	REGINALD WOODYATT ...	4
R. GEORGE MORRIS ...	2	CYRIL TANSELL	5
GEORGE E. LARGE ...	3	THOMAS W. LEWIS ...	*Tenor*

Conducted by GEORGE E. LARGE.

HANDBELL PEALS

BROUGHTON ASTLEY, LEICESTERSHIRE.
THE LEICESTER DIOCESAN GUILD.
On Sun., Mar. 26, 1950, in 2 Hours and 42 Minutes,
AT THE NOOK, LEICESTER ROAD,
A PEAL OF PLAIN BOB ROYAL, 5000 CHANGES;
Tenor size 18 in G.

*BRIAN G. WARWICK ...	1-2	HAROLD J. POOLE	5-6
ALFRED BALLARD	3-4	HARRY POYNER	7-8

†J. FREDERICK MILNER ... 9-10
Composed by J. REEVES (31). Conducted by BRIAN G. WARWICK.
* 50th peal. † First peal of Royal on handbells. First peal of Royal in the method as conductor. A birthday compliment to the conductor.

BARNWOOD, GLOUCESTERSHIRE.
THE GLOUCESTER AND BRISTOL DIOCESAN ASSOCIATION.
On Tues., Mar. 28, 1950, in 1 Hour and 59 Minutes,
IN THE VESTRY OF THE CHURCH OF ST. LAWRENCE,
A PEAL OF GRANDSIRE DOUBLES, 5040 CHANGES;
Being 42 six-scores, ten callings.

GEORGE CASE	1-2	LESLIE BARRY	3-4
JOAN BUSSEY	5-6		

Conducted by LESLIE BARRY. Witness: W. RICHINGS.
First peal 'in hand' by all. First peal on the bells.

FERNDOWN, DORSET.
THE SALISBURY DIOCESAN GUILD.
On Sat., Apr. 1, 1950, in 2 Hours and 37 Minutes,
AT FERNDOWN HILL,
A PEAL OF GRANDSIRE CATERS, 5039 CHANGES;
No. 13. Tenor size 16 in B.

*MICHAEL J. E. BEST ...	1-2	DANIEL T. MATKIN ...	5-6
MRS. F. J. MARSHALLSAY	3-4	JAMES E. DANIELS	7-8

†GEORGE E. EVENDEN ... 9-10
Composed by M. J. MORRIS. Conducted by DANIEL T. MATKIN.
Witnesses: A. F. MARTIN-STEWART AND L. J. LOCKYER.
* First peal of Caters away from the tenors. † First peal on ten bells. Rung in the 'Inverted Tittums and Handstroke Home.' In memoriam Rev. C. A. Phillips.

BRISTOL.
THE GLOUCESTER AND BRISTOL DIOCESAN ASSOCIATION.
On Mon., Apr. 3, 1950, in 2 Hours and 36 Minutes,
AT 47, HAYWARD ROAD, REDFIELD,
A PEAL OF PLAIN BOB ROYAL, 5040 CHANGES;
Tenor size 17 in B flat.

ROYSTON G. BRYANT... ...	1-2	JOHN THOMAS	5-6
EDWIN J. BROWN	3-4	TOM HARRIS	7-8

RAYMOND C. SEAGER ... 9-10
Composed by W. H. BARBER. Conducted by JOHN THOMAS.

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Australian Electronic Carillon

BY ANGUS BRAMMALL.

An electronic carillon, developed and now being mass produced by Amalgamated Wireless (Australasia), Ltd. (A.W.A.), is based on a model made from chimes found in a Sydney pawnshop. It is believed to be the only carillon in the world with a 'touch responsive' keyboard which enables the player to vary light and shade effects. Carillons in Britain and the U.S. are magnetically operated and do not respond directly to hand pressure.

The inventor of the Sydney carillon is Mr. John Ernest Benson, an A.W.A. engineer.

Although the first model was not built until late in 1944, many of these carillons are now installed in churches and other buildings overseas and in Australia. The original model has been sent to the Cathedral of the Holy Spirit, at Dodoma, Central Tankanyika.

The cost of the carillon varies from £A700 to £A1,000, according to the amplification range. Except for the tubular bells, which come from Britain, the instrument is Australian made.

Blurred and confused chimes relayed over an ordinary public address system at a Sydney suburban church led Mr. Benson to start work on his original model, which took two years to build. He used mainly junk material, including a set of second-hand chimes and a wrecked piano, bought from a dealer for £A1.

The finished carillon, installed at St. Anne's Church, Ryde (a northern suburb of Sydney), caused such interest that Mr. Benson submitted his invention to A.W.A., who agreed to sponsor its manufacture.

The carillon, with a keyboard like a miniature piano, is seven feet high and four feet wide. It has 21 piano notes in chromatic scale, and the musical range covers one and a half octaves (C to F, including half-tones), enabling a variety of compositions to be played.

Pressure of the player's hand moves a leather-faced hammer which strikes one of the tubular bells. The chime is picked up in a microphone and amplified through two superimposed loudspeakers. Its greatest audible range is six miles.

ANGELUS NOW AUTOMATIC.

A.W.A. engineers have perfected another device, a 'ghost finger,' by which the angelus may be rung automatically on an electronic carillon. This was recently installed at a Darlinghurst, Sydney, church.

The angelus chimes do not have the too-perfect tones of a mechanical instrument. They ring with a slight tone variation, similar to the human errors of manual bellringing.

And, going further, variations have been introduced to the original cycle of 'errors' to ensure that the chimes do not ring out in identical fashion whenever they are sounded.

A.W.A. has done a great deal on research on carillon techniques. When Prince Charles was born on November 15th, 1948, an electronic carillon on the 425ft. high steel tower of the A.W.A. building in Sydney's York Street chimed for the baby.

According to A.W.A. technicians, it was one of the greatest concentrations of sound ever broadcast from one focal point—a 540 watt 'boost.' (The power behind an ordinary public address system is 15 watts.)

Another A.W.A. carillon broadcast for the royal birthday from the Town Hall in Melbourne, capital of the southern Australian State of Victoria.

UPAVON, WILTS.—On Mar. 21st, 1,260 changes of Grandsire Doubles: F. Giddings 1, J. Dear 2, S. Grant (cond.) 3, G. Vines 4, G. Buckland 5, J. Keddle 6. First quarter by 1, 2, 4 and 5.

A Speldhurst Romance

On Saturday, April 1st, the bells of Speldhurst, Kent, rang out for the wedding of Mr. Anthony Turley and Miss Evelyn Hyman, both members of the local band and regular attenders at the Kent County and East Grinstead Guild meetings.

The happy couple left the church to the strains of Grandsire Triples rung by four locals and four Guild members, but a long touch was not possible then, owing to a following wedding, so the ringers went across to the George and Dragon for the reception, and by the time this was over no one really cared about a peal!

While the bride was changing to go away, the groom joined in a touch of Bob Major, then eight Guild members settled down to a quarter peal of Grandsire Triples, thinking that the bells would be going nicely when the couple left for their honeymoon in the Isle of Wight but, unfortunately, after 17 minutes a rope broke and the couple had to leave in silence.

A spare rope was soon put on, and the second attempt was successfully brought round by: G. D. Burroughs 1, Mrs. B. A. Bassett 2, H. N. Vaughan 3, E. J. Gadd (cond.) 4, L. W. Giles 5, E. J. Oliver 6, A. Richardson 7, C. A. Bassett 8.

ESSEX ASSOCIATION

SOUTH-WEST DIVISION.

A very successful and well attended meeting was held at Brentwood on April 1st, when approximately 70 members and friends sat down to tea. The visitors included a large number from the adjacent S.E. District.

The service was conducted by the Vicar of Brentwood who, in an interesting address, told of an experience a friend of his had had in a certain parish. This friend had received many abusive letters from a certain gentleman decrying the church and bells in general. In due course of time the 'abusive gentleman' had emigrated to Canada, but the abusive letters still continued to arrive, only this time it was the absence of the bells which was the trouble. The Vicar was quoting this in emphasising the part bells play in the lives of people and the church.

Although the ringing chamber became very congested, ringing was much enjoyed on this rather difficult though pleasant eight.

The thanks of the district are due to the local band, particularly Messrs. J. Sitch and A. Pryke for arranging the meeting at short notice after the cancellation of the arrangements at Rayleigh.

GUILD OF DEVONSHIRE RINGERS

SPECIAL VISIT TO TEIGNMOUTH.

In response to a request from the Parochial Church Council, Mr. J. E. Lilley, of Newton Abbot, who is chairman of the Mid-Devon Branch of the Devon Guild of Ringers, visited St. Michael's, East Teignmouth, recently to look over the bells and to see what the prospects were of their being rung, as they have been silent for several months.

Following his visit, he gathered together some members of the Mid-Devon and Exeter Branches and visited the tower on April 1st to ring. The bells were found to be in good going order, and some excellent touches of Grandsire and Stedman Triples and Plain Bob Major were rung during the afternoon and evening.

Tea was very kindly provided by the church authorities, after which Mr. Lilley voiced the hearty thanks of the visitors to the authorities for their hospitality, and for allowing the bells to be rung. Several recruits have come forward and have expressed their willingness to learn to ring there.

Dedication

NORTH BRADLEY, WILTS.

Saturday, March 25th, was an important day in the life of North Bradley, Wilts, when two new trebles, augmenting the ring to eight, were dedicated by the Bishop of Salisbury.

North Bradley is a typical Wiltshire village and was bathed in glorious sunshine. The 13th-century Church of St. Nicholas stands on the highest part of the village, where the lovely meadows fall away to the fair hills of Salisbury Plain.

The two bells are the Parish Church's thanksgiving for victory in the two world wars and are inscribed, 'Glory to God in the Highest, 1914-1918, and Peace on Earth and Goodwill Among Men, 1939-1945. Canon S. D. M. Davys, Vicar. E. W. Godwin and H. Ludlow, Churchwardens. P. W. J. Harding, Ringing Master.'

The Bishop, in his sermon, spoke of the very important service of dedicating these bells, which will possibly ring out for hundreds of years, reminding people of their duty to God by their worship in church. The eight ringers who rang the bells, he said, were not individuals but worked as a team, and if anyone went wrong the others were calling across the tower, putting them right. Even so, the members of the church were not individuals but members of a corporate body, serving under their God's command.

The opening rounds on the bells were rung by eight members of the local band: P. Harding, F. Slatford, Ron Harding, L. Hitchins, J. Hunt, J. Giddings, D. Lee and Roy Harding, and the after-service touch of 238 Grandsire Triples was rung by J. Hunt, F. Slatford, L. Hitchins, D. Lee, F. Penn, G. Harding, P. Harding and Roy Harding.

After the service a party of about 80 people did justice to an excellent tea, served by the ladies who had charge of the refreshments for the social events in connection with the Bell Fund. A birthday cake, inscribed, 'The Bells of St. Nicholas',' which was the gift of Mr. S. Adams, was cut amid great ceremony by the Vicar, Canon Davys. The Vicar spoke of this great day in the life of the church, and said how proud they were to have completed the octave. He paid great tribute to his band of ringers, under the leadership of their captain, Mr. P. Harding, who were responsible for getting the funds for the bells, and also how proud he was to have four officers of the Salisbury Guild in his tower.

Captain Wilson, seconding the Vicar's speech, congratulated the church and village on their go-ahead spirit.

Mr. S. Adams, a great friend and generous donor to the fund, mentioned how pleased he was to be back again in North Bradley and to hear the bells of the church where he worshipped as a boy.

During the evening good use was made of the bells, and methods ranged from Grandsire to Cambridge Major. Ringers attended from many parts of the South and West of England. Messrs. Mears and Stainbank were the founders and are to be congratulated on a good splice. They were represented by Mr. W. Theobald.

GUILD OF CLERICAL RINGERS

Chester is to be the centre for this year's 'Week,' which begins on Monday, April 17th. Beside visits to several towers in the neighbourhood, peals will be attempted at Northop, Pulford, Tarporley and Dodleston. The party will comprise the Revs. J. H. B. Andrews, E. W. Blyth, D. L. Board, W. G. Bridge, C. Carew Cox, K. C. Davis, F. Ll. Edwards, K. W. H. Felstead, T. P. Hearn, J. Kingdon, F. A. Oswell, R. H. Palmer, I. J. Richards, A. S. Roberts, D. P. Roberts, B. F. Sheppard, R. D. St. John Smith, A. G. G. Thurlow and Canon R. F. Wilkinson.

ABINGDON, BERKS.—At the Church of St. Nicholas, on Apr. 2nd, 1,440 Plain Bob Minor: Mary O. Drake (first quarter) 1, Audrey J. West 2, M. Angela Carter (first quarter as conductor) 3, Mrs. A. E. Lock 4, A. E. Lock 5, M. S. Cloke 6.

ALLESLEY, WARWICKS.—On Mar. 26th, 1,280 Double Norwich Court Bob Major: S. J. Oughton 1, C. H. Webb 2, H. G. Summers 3, J. W. T. Taylor 4, W. A. Stote (cond.) 5, J. W. Taylor 6, C. S. Aylett (first quarter 'inside') 7, F. W. Perrens 8.

BARKWAY, HERTS.—On Mar. 25th, 1,264 Plain Bob Major: J. S. Dear 1, R. V. Webb (cond.) 2, J. V. Livock (first of Major) 3, N. E. Werrett 4, W. D. Pooley 5, J. Church 6, R. T. Newman 7, E. G. Buck 8.

BEDDINGTON, SURREY.—On Mar. 26th, for Confirmation, 1,259 Grandsire Caters: A. Clayton 1, Joyce England 2, D. E. Parsons (cond.) 3, J. Pink 4, Joyce Gibbon 5, J. F. Galyer 6, F. D. Jennings 7, John Hill 8, L. A. Reece (first quarter on ten bells) 9, Ralph Bird 10.

BETCHWORTH, SURREY.—On Mar. 26th, 1,260 Grandsire Triples: A. Stovell 1, W. B. Judd 2, C. S. Hoad 3, C. J. Champion (first of Triples as cond.) 4, Rev. K. G. Hoare 5, T. Arrow 6, A. P. Cannon 7, D. Farmer (first quarter) 8.

BOSTON, LINCS.—On Mar. 26th, at St. Botolph's, 1,260 Grandsire Triples: H. Thompson 1, W. E. Clarke 2, D. White 3, F. Leggott 4, S. Jessop 5, F. Dewey (cond.) 6, J. Petch 7, T. Freeston 8. A birthday compliment to the conductor and to commemorate his 35th year as a service ringer at this church.

BRIDGERULE, DEVON.—On Mar. 26th, 1,260 Grandsire Triples: C. Barkwell (first quarter) 1, C. Taylor 2, J. Sangwin 3, W. Cholwill 4, R. Pearce 5, J. Bowden 6, F. Sangwin (cond.) 7, J. Rich 8.

QUARTER PEALS

BURTON-ON-TRENT, STAFFS.—On Apr. 2nd, at St. Paul's Church, 1,260 Stedman Triples: Miss L. Brain 1, W. J. Leach 2, H. E. Harrison (first in method) 3, A. Foster 4, G. Harrison 5, G. L. Roden 6, B. G. Key (cond.) 7, E. J. White 8.

CAMBERWELL, LONDON.—At. St. Giles' on Mar. 26th, 1,350 Erin Caters: Miss S. E. Harris 1, Miss R. J. Pett 2, Mrs. O. L. Rogers 3, Miss E. D. Farrell 4, F. D. Bishop 5, S. Croft 6, N. J. Hollingworth (cond.) 7, C. M. Meyer (first of Erin Caters) 8, H. W. Rogers 9, D. J. Charnley 10.

COSELEY, STAFFS.—On Mar. 15th, 1,260 Plain Bob Minor: Mrs. G. Whatmore 1, A. Baker (first quarter) 2, Mrs. E. D. Holden (first quarter) 3, A. Cope 4, C. R. Godfrey 5, J. D. Holden (cond.) 6.

CONISBOROUGH, YORKS.—On Mar. 26th, 1,264 Plain Bob Major: J. E. Cawser 1, C. Urch (cond.) 2, S. Harrison 3, M. C. Fowler 4, H. Fowler 5, T. Holmes 6, W. Maxfield 7, P. Gledstone 8. First for 6 and 7.

DAGENHAM, ESSEX.—On Apr. 2nd, 1,280 Little Bob Major: C. E. Wright 1, A. C. Chaplin 2, Miss D. Fleetwood 3, J. A. Fleetwood 4, J. Armstrong 5, A. Salisbury 6, D. G. Blows 7, F. V. Gant (cond.) 8. First in the method on the bells and by all the band.

DERBY.—At All Saints' Church, Ockbrook, on Mar. 30th., 1,260 Plain Bob Minor: M. Bailey 1, R. Grice 2, J. Bailey 3, A. Mould 4, J. Salsbury 5, J. Gibbs 6. First for 1, 2 and 5.

DITCHEAT, SOMERSET.—On Mar. 30th, 1,260 Grandsire Triples: Mrs. J. A. Lintern (first as conductor) 1, J. T. Dyke 2, W. Higdon 3, Miss B. Look 4, R. Beck 5, R. S. Tucker 6, E. Chivers 7, A. Lintern 8. A 21st birthday compliment to Miss Wendy Scutts (local ringer).

DRAYTON, BERKS.—On Mar. 31st, 1,264 Plain Bob Major: J. Seymour 1, Mrs. A. E. Lock 2, Miss M. A. Carter 3, Mrs. J. Gray 4, D. O. Wilks 5, A. E. Lock 6, A. R. Pink (cond.) 7, P. M. J. Gray 8. First quarter of Major by 1, 3 and 5.

EALING, MIDDLESEX.—At St. Stephen's on Apr. 2nd, 1,264 Plain Bob Major: Miss D. Luke 1, W G. Wilson 2, A. Jones 3, J. E. Lewis Cockey (cond.) 4, W. T. Cook 5, W. J. Ellis 6, E. C. S. Turner 7, J. C. Birt 8. Rung for Palm Sunday.

FISHLAKE, YORKS.—On Mar. 25th, 1,320 Plain Bob Doubles: L. M. Woodhead 1, F. Kershaw 2, O. Kershaw 3, H. Cooper (cond.) 4, J. Kershaw 5, Tony Wright 6. First quarter for 2, 3, 5 and 6.

FYLINGDALES, YORK.—On Mar. 27th, at St. Stephen's Church, 1,260 Grandsire Triples: M. Cooper 1, C. Haslop (first quarter) 2, A. Hunter 3, S. R. Elwick (cond.) 4, J. Waller 5, H. Short 6, J. A. Alexander 7, T. Tindale 8.

FULHAM, LONDON.—On Mar. 30th, 1,259 Grandsire Caters: J. Chilcott 1, J. Stephenson 2, R. Charge 3, R. Deal 4, A. Appleton 5, R. Chalk 6, G. Debenham 7, W. T. Elson (cond.) 8, R. Sanders 9, F. Wicks 10. A compliment to W. T. Elson on his 83rd birthday.

HESTON, MIDDLESEX.—At St. Leonard's on Apr. 2nd, 1,260 Stedman Triples (half-muffled): E. R. Gladman 1, W. Webb 2, W. A. Lewis 3, K. Gristwood 4, M. V. Chilcott 5, J. Sansom 6, B. A. Rose (cond.) 7, W. Winter 8. In memory of Mr. F. Page, for many years an active member of the church. Also for Comdr. E. J. Baldwin, a sidesman of the church, who died suddenly on Mar. 31st.

HITCHIN, HERTS.—At St. Mary's Church on Apr. 2nd, 1,280 Hitchin Surprise Major: W. Harris 1, L. Fidler 2, A. Symonds 3, G. Cherry 4, C. V. Hare 5, W. Croft 6, E. Winters 7, F. Croft (cond.) 4. First quarter in the method by all the band.

John Taylor & Co.

LOUGHBOROUGH

The LEADING BELL FOUNDERS

'THE RINGING WORLD'

The Official Journal of the Central Council of Church Bell Ringers

EDITORIAL OFFICE: c/o Woodbridge Press, Ltd., Guildford, Surrey.

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EDITOR: T. W. WHITE.

'The Ringing World' is now taking postal subscribers for the new quarter which started April 7th. Remittances: 20s. 12 months, 10s. 6d. six months, 5s. 6d. three months, to Mrs. Fletcher, The White House, Caister-on-Sea, Norfolk. Quarterly subscribers are reminded that their subscriptions are now due.

BELFRY GOSSIP

The in memoriam handbell peal to the Rev. C. A. Phillips recorded in this issue was rung at Ferndown Hill at the wish of Mr. A. F. Martin Stewart, who was a close friend of Mr. Phillips for 48 years. The Rev. C. A. Phillips was godfather to Mr. Stewart's only son. The peal is believed to be the first peal of Grandsire Caters 'in hand' in the county of Dorset.

His many friends will regret to learn that Mr. G. W. Steere, hon. treasurer of the Society of Royal Cumberland Youths, is in Sutton and Cheam Hospital for observation.

April 18th is the 56th anniversary of the 13,440 Double Norwich Court Bob Major rung at Romford, Essex, conducted by George Newson. The characteristic of this peal was the extent with the tenors together.

According to 'The Observer' an order for a carillon of 51 bells is to be given for the Culver Military Academy, Indiana, U.S.A., to be provided by Messrs. Gillett and Johnston, of Croydon.

We thank correspondents who have called our attention to the fact that if an open lead was eliminated the time saved in a peal of Major or Triples would be one-seventeenth. At the rate of striking at 28 changes to the minute, the 'open lead' is mathematically .252 secs., and the time saved in a peal would be 10.584 minutes.

Incorporated in the annual report of the Irish Association is a section on change ringing dealing with plain hunting, compiled by Mr. F. E. Dukes, the hon. secretary. This is for the benefit of remote country teams which are without proper instructors. In one case the nearest instructor is over 200 miles away, and others about the 150 mark. These bands are keen to learn, and Mr. Dukes is hoping to arrange for their instruction in this manner.

We commend the B.B.C. on their choice of rings of bells for the Easter Sunday broadcast. Their adviser knew the bells of the British Isles well, and it could not have been a chance affair. The broadcast started with St. Paul's Cathedral, London, and included the University Church of St. Mary-the-Virgin, Oxford, St. Giles', Wrexham, St. Mary's, Shrewsbury, St. Donard's, Belfast, Moulin Parish Church, Pitlochry, Scotland, Skipton Parish Church, Yorkshire, and St. Mary's, Southampton.

The choice for Northern Ireland was the bells of St. Donard's Church, Belfast. This ring of six was installed by Messrs. John Taylor and Co. last November.

Skipton Parish Church has only occasionally appeared in our columns. Here the two oldest ringers are Mr. F. Metcalfe (76), who has been ringing since 1890, and Mr. Walter Bailey (75), the steeplekeeper, who started in 1891. Skipton tenor weighs 22 cwt.

The bells of Walpole St. Peter, Norfolk, which have been rehung and retuned, were dedicated on April 8th. We regret the error in last week's announcement.

Mr. Godfrey Winn, in his popular Saturday night broadcast on 'My Week,' visited Lavenham Church, Suffolk, and had a talk with Mr. Stedman Symonds on ringing.

Another broadcast relating to bells was 'In Town To-night,' last Saturday. Brian Johnston, in 'Let's Go Somewhere,' visited a Dockland church, where the bells were apparently hung dead. He persuaded the ringer in charge to let him 'have a go.' We hope that our readers will emphasise to the B.B.C. the danger of permitting non-ringers to 'have a go' in a belfry. It is fraught with danger to the inexperienced and has been the cause of a number of accidents.

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Etc.

THE KENT COUNTY ASSOCIATION

Seventy and Still Going Strong ..... Secretary and Importance of Sunday Ringing Record Peal Year ..... Peals at Any Price Tactics Deprecated

ROCHESTER was visited by the Kent County Association for its 70th annual meeting on Easter Monday. Over 200 members were present, and the reports presented indicated the strong and flourishing position of the Association.

The service was held at the Cathedral Church, the Dean giving the address and the Archdeacon of Maidstone reading the lesson. The hearty character of the singing was commented upon by the Dean.

A full programme of ringing was arranged for the visit, the bells of the Cathedral and a number of other churches being available. Local arrangements were made by Mr. E. A. G. Allen.

Mr. E. H. Lewis, a vice-president of the Association, presided at the luncheon held in the Market Buildings. Guests of honour were the Mayor and Mayoress of Rochester and the Dean and the Archdeacon of Rochester.

CIVIC WELCOME.

The Mayor, in according a civic welcome to the company, said he had often thought, when he had the pleasure of listening not only to the splendid ring of bells in the Cathedral but also in other churches throughout the South of England, how much they would miss the bells if they were suddenly taken away. He was sure ringers had not succeeded in perfecting their calling without a good deal of hard work and study and many hours away from home. Ringing had much behind it—the many friendships and splendid comradeships created by ringing in different churches.

If there was one thing in Rochester for which they thanked the Almighty it was the preservation of their grand old Cathedral.

The Dean also addressed a few words of welcome to the company and congratulated them not only on their ringing but the heartiness of their singing. He congratulated Mr. Spice on the arrangement for such a successful function. 'I have heard of the spice of life,' added the Dean, 'and I am sure that Mrs. Spice is the spice of this Association.'

The thanks of the Association to the Mayor and the Dean were voiced by Mr. J. Willis.

At the business meeting the hon. secretary read apologies from Mr. R. A. Constant (Gravesend), Mr. E. Ruck (Willesborough) and Mrs. F. White. The last-named wrote resigning his position as trustee of the Association as he was leaving the county to live with his son.

A FOUNDATION MEMBER.

Mr. G. H. Spice prefaced the annual report by reminding the members that within a month the Association would have reached the advanced age of three score and ten years. The sole surviving foundation member was Mr. E. Ruck, of Willesborough, who still took an active part, not only in service ringing but also in encouraging and guiding the younger members in his district.

Over the past 70 years progress and advancement had been made in various directions. The standard of ringing on the whole had improved; more intricate methods had been evolved; lady ringers had taken up the art energetically and with marked success; belfry reform had not been neglected; social and recreational activity among ringers was noticeably on the upgrade; by means of wireless, bells had been brought into the homes of millions of people, and a go-ahead ringers' weekly, 'The Ringing World,' completed the picture.

In a warning against complacency, Mr. Spice said they were living in an age when there was a tendency to expect results without working for them. Example beat precept, and if to mark this 70th anniversary of the founding of their Association ringers made Sunday service ringing their fixed duty, there was not the slightest doubt that toppling bands at present being held together by a conscientious few would soon get back to a strong and healthy condition.

MEMBERSHIP SLIGHTLY DOWN.

As against their total paying practising members of 1,033 for 1948, the 1949 total stood at 1,015. Seventeen non-resident life members were elected during the year and subscriptions were received from 53 hon. members—two less than last year. Subscriptions were received from 134 towers, as against 124 last year.

New practising members enrolled in 1949 were: Ashford District, 22 adults, 5 juveniles; Canterbury, 20, —; Lewisham, 12, 7; Maidstone, 24, 2; Rochester, 6, 1; Tonbridge, 27, 1.

LOSSES BY DEATH.

The company stood as the following names of those who had died during the year were read: Practising members: William Bidnell (Hythe), Reginald Smith (Boughton), Harry Hogarth (Chatham), A. H. Jones (Penshurst), G. Baker (Tunbridge Wells) and W. Berry (Greenwich). Non-resident life members: Eric B. Hartley, Canon Coleridge and George Williams.

There had been only one change in officers. Mr. Cyril Buesden, in the Canterbury district, had been elected to serve as co-representative with Mr. French in place of Mr. J. W. Unwin, resigned. The thanks of the Association were expressed to Mr. Unwin for his seven years in office in the Canterbury district.

MISCELLANEOUS

The local band at Ashford now ring London and Bristol Surprise Major regularly for Sunday services. Congratulations.

Congratulations also to Mr. Albert J. Lancefield, late of Willesborough, who in 1949 conducted the first peal of Minor to be rung in New Zealand, at Christchurch Cathedral.

Mr. Robert Edwards, of Tenterden, is now 85 and still rings regularly. He has completed 65 years' membership of the Association and is believed to be the runner-up to Mr. Ted Ruck.

The average attendance at meetings in the Canterbury district during the year was 69. Well done, Canterbury.

Friends of Mr. Harry Hoverd, who has been on the sick list for many months, will be pleased to learn that he is making steady progress towards recovery.

The work of reconstructing the new Parish Church at Bromley has been commenced. The foundation stone was laid by H.R.H. Princess Elizabeth.

Mr. Waddington, of Egerton, has provided a new attendance book for meetings of the Maidstone District. Thanks!

Congratulations to the Maidstone District on producing a quarterly magazine, 'The Belfry,' and to the Editor, Mr. F. Wright.

The morning service on Remembrance Sunday was broadcast from Hollingbourne Church. The local band was responsible for the ringing.

After repairs, Cobham bells are now in good going order, as are those of Meopham, which have been augmented to a ring of eight.

The report was adopted.

HEALTHY FINANCES.

Mr. F. M. Mitchell, who was elected hon. treasurer 21 years ago, presented the accounts. He said the Belfry Repair Fund was started in 1895, and since then they had met 70 appeals, and grants made totalled £334. The Benevolent Fund was started in 1912, and 109 grants had been made, totalling £432 16s.

When he took over the treasurership, the total of the Association funds was £834 18s. 4d.; it now stood at £1,234. The statement of accounts for 1949 showed a balance in hand of £90 18s. 7d., against £54 7s. 2d. at the beginning of the year. From the Benevolent Fund nine grants had been made during the year, and the balance carried forward was £422 12s. 2d., against £450 0s. 2d. The Belfry Repair Fund had just held its own, the balance being £240 17s. 3d. Grants of £10 to Hannington and £5 5s. to St. Luke's, Bromley, had been made during the year. The accounts were adopted.

PEALS AN ALL-TIME RECORD.

Mr. P. A. Corby, peal secretary, in his report, stated that 166 peals were recorded in 1949. This was an increase of 10 on 1948, and an all-time record for the Association, and was achieved without the aid of peal-ringing tours or of any national peal-ringing occasion. Despite this increased activity, however, they would lose their place at the head of the Central Council's list due to the high figure attained by various Midland and Northern Associations.

The peals fall into 41 categories, including the first peals ever of Wye Surprise Major and Biddenden Surprise Major, both of which are light variations, but not necessarily improvements, of Yorkshire Surprise. There has been a considerable range of activity, and peals included a goodly proportion in the simpler methods, whilst friends in the Ashford district further enhanced their reputation with many performances in the higher methods. Handbell ringing has become almost non-existent.

There were 47 conductors, including five 'first as conductor.' The peal secretary heads the list with 15, and Messrs. F. J. Cullum and R. L. Sills follow up with 13 each. Mr. Sills and the other young conductors of the Maidstone district have maintained well the increased activity referred to last year.

Of 220 towers with five or more bells, peals were rung in 86 as follows: Ashford District, 18 peals in 11 towers; Canterbury, 15 in 13 towers; Lewisham, 47 in 16 towers; Maidstone, 29 in 18 towers; Rochester, 28 in 17 towers; Tonbridge, 20 in 11 towers. Three peals were rung in Sussex, one in Middlesex, and three in the London area. Two peals were rung 'in hand,' a decrease of four on 1948.

(Continued on page 237.)

THE CENTRAL COUNCIL

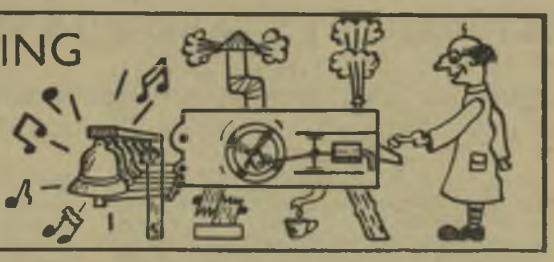
The Third Session of the Twentieth Council (53rd Annual Meeting) will be held at Eastbourne on Whitsun Tuesday, May 30th, 1950.

All notices of motions signed by the proposer and seconder must be forwarded forthwith for inclusion in the agenda.

GEO. W. FLETCHER, Hon. Sec.,
The White House,
Caister-on-Sea,
Great Yarmouth.

CHANGE-RINGING MACHINES

By B. D. Price.



(Continued from page 220.)

It obviously adds to the attraction of a ringing machine if it can draw diagrams. As Mr. Woodhouse points out, a visitor is doubly interested in a machine if he can take away with him a memento of its performance.

Carter's machine is capable of drawing a diagram of the work of a bell while the machine is in operation, but the execution of it is not to be compared with Mr. Woodhouse's perfection. On page 550 of Morris' book appear diagrams of Duffield Maximus and Stedman Cinques drawn by the senior machine. The roll of paper on which the diagram is drawn may be seen clearly in the plate illustration on page 549. The loose end of the paper is doubled back over a roller and attached to a second roller which is driven continuously by an endless cord from an interior shaft. The pen is attached to an arch-shaped spring which is clipped on to the ends of one of the bellplates, the weight of spring and pen pressing the pen on the tautened paper. Thus the paper moves more or less vertically driven by the roller, while the pen follows the horizontal movement of the bellplate, and a graph is drawn. However, since the bellplate movements are irregular and the paper movement continuous, the resulting line is not straight. Plain hunting looks like worn stairs and places are not easily distinguishable from the normal step. This could be corrected by causing the paper to move only when the bellplate is moving, but this is not easily done as the bellplate movements do not occur at regular intervals (due to the staggering of the cams as explained).

The diagrams illustrated were drawn by Mr. Woodhouse's No. 8 machine after the diagram-drawing apparatus had been revised recently. The bellplates are moved in between changes, so that paper movement may be synchronised with bellplate movement. The result is a far better approximation to a straight line. In the illustration of No. 8 machine ('Ringing World,' March 31st, page 203) the roll of paper can be seen clearly being pulled forward by a pair of rollers actuated by a pawl and sprocket. The pen rests on the paper by its own weight and is directly attached to the 7th bellplate by a lever. The simpler the lever the more accurate the diagrams. The bellplates move three eighths of an inch per place, and the diagrams used to have a total width of just over 2½ inches. The recent alteration has made the diagrams narrower and the diagrams in this article were drawn under the new conditions.

In August, 1948, Mr. Woodhouse drew half-courses of all the 370 Surprise Major methods in Mr. A. J. Corrigan's Collection. This was rendered simple by the place notation of the catalogue and the push button panel of the machine. One shudders to think of doing this on Carter's machine, as all swops would have to be set and worked out beforehand. Recently (August, 1949) Mr. Woodhouse has drawn diagrams of all Mr. Corrigan's Royal and Maximus Surprise Methods Collection on his No. 9 machine.

When the author planned his electrical machine it was clear that unless various advances were made and new experiments tried it would not be worth while building a machine at all. Therefore the whole scheme of diagram drawing was reconsidered and an entirely novel way of tackling it produced. The obvious way of getting an even more accurate straight line is to make the movements of both pen and paper continuous, which evidently requires considerably more mechanism for driving the pen. The paper is pulled slowly along by a heavy metal roller pressing on a driven rubber roller. The pen, a Wypac Stylus, as used by Mr. Woodhouse, is supported by a rather involved and concealed system of levers (which was scrapped twice during making!) and traverses a straight line across the paper. It is driven by a piece of twine which is wound round a shaft. This shaft is driven either way by a differential gear system. The centre cage of the gear is locked to the shaft and the side bevels revolve independently of the shaft but are driven in reverse directions by clutches. Normally the bevels do not move as catches engage with pins attached to them and the clutches slip continuously. If, however, one of the catches is lifted the corresponding clutch drives the bevel gear half a revolution, which in turn causes the shaft to revolve one quarter of a revolution, and the pen moves one place. Instructions for the diagram drawer are received from another section of the machine in the form of electrical impulses to 'Hunt up' or 'Hunt down,' and these work the catches directly by electromagnets. As this differential gear is incorporated in one unit with the other co-ordinating contact gear of the machine, synchronising of the impulses and movement presents no difficulty, and the system works perfectly. The impulses are derived from the relays working the ninth bell, which becomes the 7th for Major or Triples and the 5th for Minor or Doubles. A refinement is the homing device which causes the pen to hunt automatically back to its correct starting position when 'Rounds' control button is pressed, and when the setting is altered 6, 8 or 10-bell ringing, the pen moves its starting position so that the diagram remains in the centre of the paper strip. It was originally intended that the pen should drop on to the paper and the paper start, moving automatically when 'Go next' was pressed, but the mechanism for dropping the pen acted so viciously that ink was scattered liberally and it was scrapped! This turned out to be a blessing in disguise and the space vacated was needed later. In its final form the pen remains lifted or on the paper as desired but has to be altered by hand, and the paper can be stopped by removing the metal roller. The resulting diagrams are of a high standard. The system has its drawbacks, however, as normally it draws the work of the ninth bell only, and much wangling is needed before a method diagram can be persuaded to start anywhere else. Mr. Woodhouse's system can do any required acrobatics.

Two anecdotes may be fitting at this point. We had been repairing a broken spring on Carter's machine, and to test it we set it to ring Bristol Royal (the version shall be nameless to prevent trouble), and left it to draw the diagram. When we returned, the machine had rung a complete course and had managed to get through half of another in addition! On another occasion I had just completed the diagram drawer on my machine and could work it by feeding in the required impulses 'up' or 'down' by hand. I resolved to ring a course of Cambridge Royal on it, and spent a feverish time with eyes tightly closed tweaking a switch. When this had been done, I discovered I had not lowered the pen!

THE ACT OF PRESELECTION

To the uninitiated the problem of constructing a ringing machine is simple. Merely have a paper roll much as in a pianola, working bells instead of piano strings. Every method rung needs only a few feet of paper for the plain course, and call-making can be added easily. Not so easy! Call-making cannot be dismissed as being a simple extra. This matter I have always found very confusing to analyse, but it can easily be verified that a simple interchange of the connections from paper tape to bells cannot effect calls. This is seen quickly by considering Bob Maximus. There are over 36 million leads of Bob Maximus that could be rung and these are not going to be produced by any simple combination of switching.

Mr. Donald Clift several years ago showed me a paper strip punched with holes. When telegrams come into a large post office too fast to be dealt with by the teleprinters they are stored up automatically on paper strip about two inches wide. The strip he showed me was intended for this, but by fixing bells to a teleprinter (!) he was able to ring a course of Bob Major from the strip. Such an experiment is amusing, but it does nothing to solve the ringing machine problem.

In 1935, the John Compton Organ Company of Acton, well-known makers of both pipe and electric organs, were experimenting in producing a machine which would ring church bells electrically in changes. Their chief of research, Mr. L. E. A. Bourn, was responsible for the apparatus, which rang only plain courses of Oxford Treble Bob Major.

The apparatus was fitted on a standard Post Office rack for telephone equipment, six feet high and 21 inches wide. It was entirely self-contained, and there were no actual bells. The apparatus made the bell noise itself, synthesising it from the constituent tones in a similar way to the electric organ. Mr. Bourn has very kindly supplied me with much information on the subject: 'The machine produced a series of pure tones, any of which could be sounded in combination, and the attack and decay constant of each could be adjusted. The compass of the notes covered four octaves in semitones, and it was therefore possible to set up various combinations of frequencies corresponding to the tap, nominal, hum tone, etc., and giving each its own decay time. A few good and realistic bell tones were possible, also a great many peculiar bell tones. It was found that a certain monotony of tone existed, partly due to the fact that the result was analogous to a stationary and not a swung bell. This latter effect was very realistically reproduced by causing all frequencies to vary momentarily at the moment of striking. . . . The apparatus was demonstrated at a British Association lecture by Dr. Kaye, of the National Physical Laboratory.'

The apparatus also contained switches which automatically rang Oxford on eight of the non-existing bells. The open lead was adjustable! It was temporarily installed at St. Martha-on-the-Hill, Albury, Surrey. It could be heard for twelve miles, and Mr. Bourn himself rang in the New Year of 1936 on the apparatus. 'Complaints were raised that the ringing was far too perfect, and provision was made to inject small current impulses into the slugging condenser (which timed the striking) to cause the impulsing to be slightly irregular.'

An examination of the circuit diagram kindly supplied by Mr. Bourn shows that the

(Continued next page.)

RINGING MACHINES—continued.

apparatus was not a true change-ringing machine. It could have been rewired to ring any Surprise Major method, and simple extension would render it capable of ringing plain courses of any method. Extension to carry out short touches would also be easy, but this is an entirely different matter to being capable of ringing any touch without previous preparation, as a change-ringing machine could. Thus for over ten years, while ringers have styled ringing machines as dusty museum pieces unworthy of consideration, the problem of practical application had in part been already solved, and there is no doubt whatsoever that a change-ringing machine could be used to produce faithfully a copy of change ringing in our belfries. It is not my intention to advocate such a thing; in fact, I do not think it is likely to happen, but there seems a danger that machines could be used to reproduce a standard touch at will. It would be comparatively simple to produce a touch, say, of Grandsire Caters, of any desired length, but the mechanism would not be able to produce anything else.

These two diverse experiments of Messrs. Clift and Bourn illustrate a reproduction of a set pattern of changes which does not constitute a change-ringing machine. The approach to the change-ringing machine is altogether different. Here, logical reasoning shows that one must solve the problem by devising some mechanism which will 'hold the changes,' that is, fix by some means what change is being rung at any particular time. Both Carter and Woodhouse have adopted the obvious idea of having a slide (a bellplate) for each bell, the positions of the slides recording the positions of the bells in the change. But it is by no means necessary to adopt this mode.

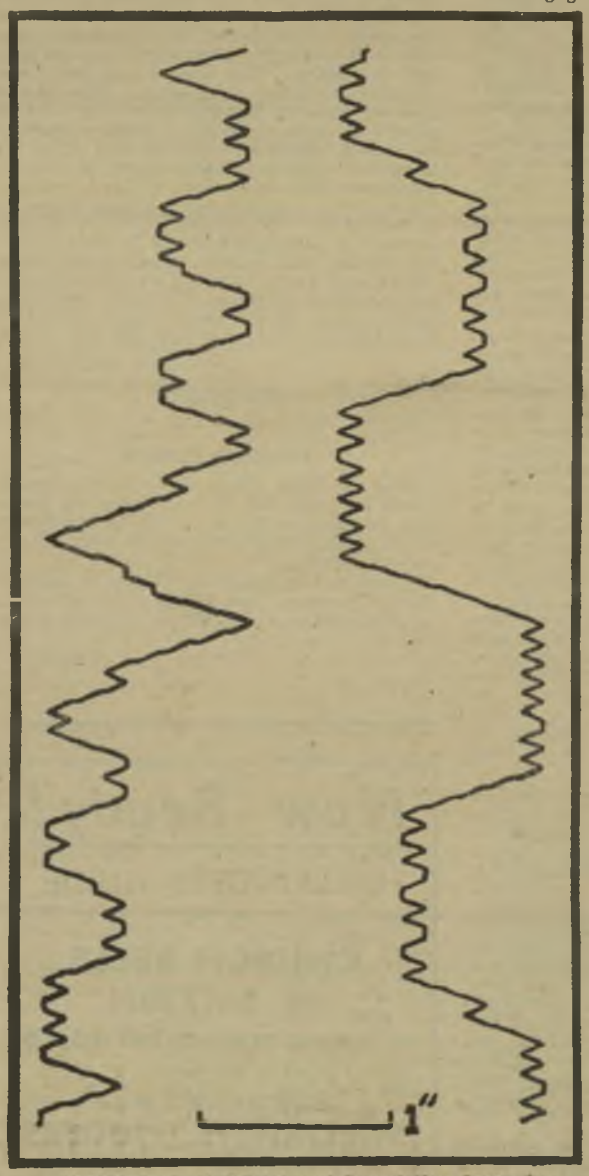
It seems that there are two distinct ways of approaching this problem. The first is to have a number of objects representing the bells and to continually resort their order. Here is one Heath-Robinson scheme: Have twelve ball bearings of graded sizes representing the twelve bells. These bearings continuously run round a closed path, first being lifted by a slowly rotating wheel with holes in its rim and then running down a chute back to the bottom. As the bearings pass upwards in the wheel their sizes are felt by some mechanism which rings the corresponding bells, so that the change being rung depends on the order of the bearings. One could easily get an open lead by having 24 holes in the wheel with a gap. As the bearings fall down the chute they could be resorted in order according to the method being rung.

Another analogous method is to have twelve wooden discs with felt bases on a smooth table, arranged in a line with a bell on each; rounds is struck by hammers on long shafts so that the hammers are well out of the way except when the bells are being hit. The bells are interchanged as in handbell lapping by S-shaped scoops pivoted between the discs which revolve and swop round the bells as desired. The effect would be that of lapping, and the interchanges of the bells would have to be staggered so as not to interfere with the striking.

The other way of approaching the problem is to have a complete mechanism for each bell capable of definite positions governing the striking position of the bell. The bellplate is the obvious example of this, but by no means the only way. Valve circuits such as are used in modern electronic calculators could be used. These calculators perform feats far in advance of change ringing, and on present achievements could probably ring a peal in a few seconds (that is, if one could persuade the Central Council to recognise it!). The author's electrical machine uses telephone relays, as will be described later. But there is apparently a necessity for this second approach to the problem—the act of preselection, a seeking out of the movement required to take place for the next change before it is actually effected. Carter's clicks provide a very simple way of automatic preselection with difficulties in their wake. Mr. Woodhouse's catches, actuated by the rising bars underneath, carry out the required preselection before the bellplates actually move. It is this problem which is the very core of the problem of the change-ringing machine. There is probably no limit to the number of ways of solution, but several important points emerge. Firstly, whatever replaces the bellplate must take up definite positions; errors are apt to build up and may lead to slips. Secondly, movement of the bellplate or substitute must be sufficiently precise to cause movement to the next position and must not interfere with striking.

(To be continued.)

ERRATUM: P. 218. The last three lines in column two should read: 'Of the two, the earlier one . . .'



Half-Courses of Bristol and Superlative drawn by Mr. Woodhouse's No. 8 machine.

A Chinese Impression of Bells

In one of the Cambridge College magazines a Chinese student gives this concluding paragraph of an article on 'First Coming to England':—

'Finally, a word must be said about the bell. Of all things here (Cambridge), I like the ringing of the bells best. Every evening it resounds through the town, and on Sundays the bell at Great St. Mary's lasts as long as half an hour at dusk. It usually makes me homestick, but sometimes it gives me food for thought.

'In my country, bells and Buddhist monks are closely related. Whenever you hear the bell you are sure that some monks are doing their morning or evening prayers. Here the bell seems to exist without the monks.

'While the bells are ringing, those who should be at their prayers are either sitting in the halls engaged in heretical talk over cups of beer or chatting at home with their wives and children. You may congratulate yourselves on the progress of civilisation, but you cannot help thinking of the loss of meaning in the bell.'

SELBY AND DISTRICT SOCIETY

The monthly meeting of the Society was held at Goole on March 18th. Towers represented were York, Leeds, Selby, Hull, Beverley, Howden, Hemingbrough, Carlton, Snaith, Doncaster, Barnby Don, Thorne, Fishlake and Goole. There were several hours of excellent ringing from early afternoon, the methods rung being Stedman Triples, Double Norwich Court Bob Major, Oxford and Kent Treble Bob Major, Little and Plain Bob Major, Oxford Bob and Grandsire Triples.

A short service, conducted in the Parish Church by the Vicar (Canon E. H. Rawlins) preceded tea.

The business meeting was held in the Church Schoolroom, Mr. H. S. Morley presiding, when the secretary reported that the Whitsuntide outing was being organised, and it was proposed to visit Wetherby, Skipton, Gargrave, Ilkley and Otley. The next meeting is to be held at Eastrington jointly with the Yorkshire Association.

Votes of thanks were tendered to the Vicar for the use of the bells and to the local company for arrangements.

ALDERSHOT, HANTS.—On Apr. 2nd, 1,260 Grandsire Triples: G. Annear (age 12½, first quarter) 1, R. Corke (age 14½, first quarter as cond.) 2, E. Haines 3, J. D. Rook 4, E. Smith 5, C. Wright 6, A. Jacques 7, W. Viggers 8.

STEAD-y, not so FAST!

(A CHALLENGE TO THE METHODS COMMITTEE.)

Dear Sir,—Views, of course, we respect, but pronouncements delivered as official, particularly with a 'must' label attached, cannot fail to invite critical examination. The Methods Committee's three-paragraph letter on Steadfast raises the three questions of fact, of principle and of policy. In the interests of truth these questions should be examined—conveniently in reverse order.

POLICY.—None will disagree that a method designer would do well to refer, before publication of his methods, to some source of records for checking originality or authenticity. As a technical author of some experience one is well aware of the need for, and value of, checking carefully before publication; but the M.C.'s implication that Steadfast should have been referred to them first is without justification, especially in view of the scant attention they have obviously given it so far. The first reaction to the application of Grid Analysis to the Stedman principle in respect of even numbers was surprise that the resulting figures might be those of the method indicated in the rather imprecise note in the Central Council's Glossary, as 'Shipway's Principle'—a method he claimed as his own, of course. But a careful comparison of our derived result with the actual figures of Shipway's as given in his 'Campanologia' showed at once the fundamental difference. (See under Fact below.) Hence the publication of Steadfast as Stedman on even numbers came rather as a duty to students of method structure, lest Shipway's Principle itself (and not Steadfast) might be 'rediscovered' (to quote the Methods Committee) as such. Time will no doubt confirm this.

PRINCIPLE.—As to this, the second paragraph of the M.C.'s letter contains the operative and dangerous word 'must.' As we all know, the M.C. is no parliamentary assembly, i.e., is not constituted to lay down the law. It is, of course, an advisory committee to its parent organisation, the Central Council. It is superfluous to ask for their mandate from the C.C. to deliver judgment to the Exercise on Steadfast (or anything else!) with a 'must' attached. Under existing constitution they would never possess such. But there is something more in this than violation of principle. There is confusion of thought. Steadfast does not seek to supplant Shipway's Principle, otherwise we should have referred to it on publication. By all means let S.'s P. lie undisturbed with its two peals, but let there be no confusion of it with Steadfast or Steadfast compositions. S.'s P., as published, will not run, in fact, to Minor; but the last of Steadfast on this point is not yet published. (Vide my letter in the issue dated March 31st.)

FACT.—On the simple question of fact we can be even more positive. Are these two the same method, or is there any difference between them? Even the M.C. admit, though grudgingly, that there is a difference (c.f. lines 5 and 6 of their letter). But is this difference trivial or fundamental? Any ringer may decide for himself. The difference will be seen to be greater than that between, say, Original and Plain Bob, or Cambridge and Primrose, in which cases the grids (all rows from lead-head to lead-end) are absolutely identical. What, then, is the nature of the difference? It is, in the main, two-fold, and practical. First, in Steadfast the calls are made, they take effect, and they are pricked for setting out, all as at one and the same set-parting. In S.'s P. they are called and made at one and recorded or pricked at the next. This is because Shipway treated his method as though it were an odd-bell one, pricking set-end, instead of set-head, rows. And if Steadfast compositions do not apply to Shipway's Principle, how can the methods be the same? Second, consider a fairly distinctive method such as London. What is its main distinguishing characteristic? Simply the preponderance of retrograde or backward hunting! The practical ringer at once recognises this from the way the method forces him to 'lead wrong,' i.e., back-then-hand. **Now in Stedman, as every ringer knows, bells come to lead 'right' in the quick sets and 'wrong' in the slow sets. So they do also in Steadfast. But in Shipway's Principle? Oh, no! There you find this state of things completely reversed, throughout!** Yet the Methods Committee are trying to make us believe this is a negligible difference! Now what would happen in 'London' if ringers decided that it really would make no difference as they came down to lead 'wrong' if they put in a lead 'right' instead? Yes, of course, absurd even to contemplate it; but this second difference is just that!

CHALLENGE.—Now all this is a 'straw in the wind.' The newer, critical, more scientific view of ringing theory has come to stay and to develop. The day of ambiguity and confused thinking is passing. The M.C.'s glancing view at Steadfast is a vital case in point. To focus attention it seems opportune to issue a challenge to them. Let them attempt to disprove the statement above in black type. If they succeed there are 5 guineas available for any deserving ringing cause to be named by 'The Ringing World' Editorial Committee. (Cheque enclosed in good faith.) But if they fail in this, then, instead of a guinea each from them, all we ask is that as responsible investigators of ringing matters in method, they discard prejudiced sentiment in favour of scientific truth.—Yours very truly,

A. YORK-BRAMBLE.

Netley Park, Southampton.

SPLICED MINOR

Dear Sir,—Can the peal at Copt Oak, published on page 198 of your issue of March 31st, be really termed a peal of Spliced Minor, seeing that four of the extents were of one method only?

A similar performance at Horton is recorded on the previous page of the same issue but not claimed as a spliced peal.—Yours faithfully,

W. J. G. BROWN.

Ipswich.

Now Ready!

BELLRINGERS' GUIDE

to the

CHURCH BELLS of BRITAIN

& RINGING PEALS OF THE WORLD

ORDER AT ONCE from—

WILLIAM H. VIGGERS

37, HIGHFIELD GARDENS, ALDERSHOT

Spliced Peals

Dear Sir,—I should like to congratulate the Burton-on-Stather band on their handbell peal in 17 plain Major methods. At the same time I feel I must point out that the handbell peal in 21 plain Major methods, rung at Sittingbourne for the Oxford University Society on January 2nd, 1945, does, in fact, comply with the Central Council's resolution on method splicing:—

'That any composition which contains more than one method shall be called "spliced," provided that the methods are so joined that the fundamental units of which they are constructed (i.e., the "Leads" in the case of treble-dominated methods, the "Sixes" in the case of Stedman, Duffield and similar methods, etc.) remain intact.

'That reports of all spliced peals shall include a reference to the number of methods rung and the number of changes from one method to another during the peal.'

As far as I know, this motion remains the Council's last word on the subject. Of course, the matter is of no great moment, as I am quite sure that Mr. Feirn and his band will not rest content for long with only 17 methods!

It is a great pity that there is not more interest in plain Major methods. Many are as difficult and interesting to ring as any Surprise method (though, of course, there is not the glamour of the name), and I should imagine that the scope they offer for spliced compositions is considerably greater. For instance, any band which can ring Double Norwich could learn to ring the 21 methods contained in the peal we rang at Sittingbourne (this was composed by the late Stephen Wood—see 'R.W.' for April 11th, 1930), and this peal is well worth ringing again. It is not a difficult composition (there are only 50 changes of method), but the 21 methods form a very satisfying unity, for they are, I believe, the only plain Major methods (except for Bastow Little Court and 'Alliance' type methods) in which the tenors are never parted by more than three other bells and in which all the places are made 'right.'—Yours sincerely,

JOHN E. SPICE.

38, Linnet Lane, Liverpool. 17.

IN DEFENCE OF RINGING

Dear Sir,—I once lent an old Hubbard's 'Campanalogia' to the late W. T. Peglar and it was never returned and could not be discovered. So I don't know if it exists or who has it. My uncle's name was on the fly leaf, Edward J. Hughes, of Leighton, Welshpool, who was a ringer, as was my father and grandfather. My son, too, used to ring but rarely does now. He rang one peal of Double Norwich C.B. Major. Here are some of the lines in the book as far as I can remember:—

How oft mankind exert their utmost powers
To find amusements for their leisure hours;
Some in bowls or cricket will unite,
And in such healthy exercise delight.
Others in chess or music fix their mind,
Requiring practice of no trifling kind;
While some to far less noble arts descend,
Their time thus wasted oft in ruin end.
Then why should ringing be set down as nought
By some who never gave the science thought.
Its exercise amusement doth impart,
To those who are proficient in the art.
In it our energies are all required,
Mental and physical and zeal untired.
Then let those critics who our choice condemn
Leave us to follow it; we grant the same to them.

This may not be correct exactly; it is over 40 years since I saw the book.

All good wishes.

Bangor. ALBERT J. HUGHES.

OBITUARY OF THE WEEK

DERECK ANSELL.

The many friends of Mr. S. Ansell, of Tarring, Sussex, will be sorry to hear that after a very short illness the death occurred of his eldest son, Dereck, aged 15, on March 26th.

The funeral was at Worthing Cemetery on Wednesday, March 29th, after a short service at St. Andrew's, Tarring.

The bells of this church, on which he had just started to ring, were rung half-muffled before and after the service by the local band, assisted by Mr. E. Treagus.

MR. CYRIL F. JOHNSTON.

Bellringers and carillonneurs from all parts of Britain and from the Continent were among the large congregation attending the funeral service for Mr. Cyril F. Johnston at Croydon Parish Church on Monday, April 3rd.

Previous to the service the bells of the church were rung half-muffled to Grandsire Triples, Mr. Dan Cooper, the local captain, conducting. The bells were again rung after the service.

The Vicar of Croydon (the Ven. C. F. Tonks) officiated, assisted by the Vicar of Shirley (Canon G. C. Rawlins). Singing was led by the choir of the Parish Church, with Mr. E. Shakespeare at the organ.

The family mourners were Mrs. Cyril Johnston (widow), Mr. Arthur Johnston (son), Miss Nora Johnston (sister), Mrs. A. D. B. James (sister-in-law), Capt. A. D. B. James, R.N., Mr. Arthur A. Lyon (cousin), Mr. and Mrs. Dru Drury (cousins), Mr. John C. Norman (nephew), Mrs. John C. Norman. Miss Rosemary Johnston, daughter, owing to illness, was unable to attend.

Representing Messrs. Gillett and Johnston, Ltd., were Mr. Michael Howard (managing director), Mr. F. C. W. Stevenson (sales manager), Mr. J. Knight (clock department), Mr. W. Dyer (general foreman), Mr. Don Bradford (outside representative), Mr. B. Newson (inspector), Miss V. C. Cottrell (purchasing agent), Mr. P. Bampton (one of the firm's oldest bell founders) and employes from most of the departments of the company.

Among the ringers present were Mr. E. H. Lewis, president, Central Council, Mrs. G. W. Fletcher (representing Mr. G. W. Fletcher, hon. secretary, Central Council), Mr. C. Dean, Messrs. A. H. Pulling, A. B. Peck (representing the Ancient Society of College Youths), D. Cooper, F. E. Collins, H. Humphrey, T. Blow, E. M. Atkins (Cambridge University Society), Mrs. Oatway, Miss Cottrill, Messrs. H. Skeet, and G. W. Steere.

Mr. B. Eijsbouts, bell founder, representing the firm of Eijsbouts, Lips, Holland, arrived by air. Mr. James Lawson, of California, represented American carillonneurs.

Messrs. F. W. Elliott, Ltd., clockmakers, Croydon (of which Mr. Johnston was chairman), were represented by Mr. Horace Elliott (managing director), Messrs. R. J. Elliott, L. F. Elliott and E. E. Brown (directors). Mr. Horace Elliott also represented the British Horological Institute, of which Mr. Johnston was formerly chairman.

Interment followed at Queen's Road Cemetery, Croydon.

THE REV. C. A. PHILLIPS.

The death occurred suddenly at Bournemouth on March 27th of the Rev. Charles A. Phillips, who amongst many activities had been secretary of the Wimborne Branch of the Salisbury Diocesan Guild for 48 years.

He was the son of the Rev. J. H. Phillips, Rector of Okeford Fitzpaine, Dorset, and was educated at Sherborne school. He learnt to ring at his father's church, and his enthusiasm in the art caused him to be elected secretary of the Wimborne Branch, a post he held until his death. He will be greatly missed in all branches of the Salisbury Guild and in the Bournemouth District.

Of late years he had been voluntary assistant priest at Holy Trinity, Bournemouth, at which church the funeral service was held on March 30th, which was attended by a representative gathering. Ringers were present from Bournemouth, St. Peter's and St. John's, Hampreston, Dorchester, Poole, Swanage, Salisbury, Wimborne, Ferndown, including the veteran Master of the Wimborne Branch, Mr. F. W. Townsend, who had served with the Rev. Phillips for over 40 years.

As the cortege left the church a course of Grandsire Triples was rung on handbells by a band representing the Salisbury and Winchester and Portsmouth Diocesan Guilds.

With the muffles on, the whole Pull and Stand was rung in the evening on the ten bells of St. James', Poole, followed by touches of Stedman Caters and Grandsire Caters by the local company and Mr. A. F. Martin Stewart, a lifelong friend of the Rev. Phillips and past Master of the Salisbury Guild. Thus passes a great benefactor and a real English Christian gentleman.

May his soul rest in peace.

MR. JOHN THORPE.

It is with deep regret that we announce the death of Mr. John Thorpe, which took place at 96, Bowfield Road, Sheffield, on March 30th, in his 71st year.

Mr. Thorpe was employed as a gold and silver smelter, and enjoyed good health up to his retirement some three years ago. Subsequently he developed heart trouble, which took a serious turn in the early part of this year, Mr. Thorpe eventually passing peacefully away as stated.

He commenced to ring at Walkley, Sheffield (six bells), in 1901, and conducted his first peal (one of Minor) at Treeton in May, 1903, afterwards graduating to the Sheffield Cathedral company (then the Parish Church) a year later, where he remained a staunch member and most regular attendant up to the latter part of last year.

During his 45 years' membership, he held the official position of steeplekeeper for 27 years, and was also the recognised conductor for the same length of time.

In all, he had rung 222 peals (215 for the Yorkshire Association), of which he had conducted 37. Of these, 45 were on handbells, the first being conducted by himself. His record included peals in all the standard methods from Minor to Maximus, and many in Surprise, including the first peal of Lincolnshire Royal ever rung. Also he took part in the first peals of Oxford Treble Bob Maximus and Little Bob Maximus for the Yorkshire Association. He had circled the Cathedral twelve, but his one disappointment was that Cambridge Maximus always eluded him.

Being well built and of great strength, he was looked upon as one of the finest big-bell ringers in the North. As a conductor he was safe, quiet in manner, but firm, and carried the confidence of all who rang with him.

As nature had endowed him with a rather reserved disposition, he was never in the limelight as judged by present-day celebrities, but he earned the respect of all with whom he came into contact, and was always ready to impart his knowledge and give a helping hand to all practical and theoretical aspirants.

By his passing the Sheffield Cathedral company has lost a devoted colleague and one of the pillars, whose place it will be very hard to fill.

Following the cremation, the bells of the Cathedral and also those of St. Marie's (R.C.) were rung half-muffled as a last token of respect to his memory.

Kent County Association

(Continued from page 233.)

There were 33 first peals, four less than in 1948. The 'first pealers' include surnames well known in former generations, and to all 'first pealers' and their instructors congratulations are offered. The number of first peals is one of the best guides to the health of the Association, and all members are urged to see that this number is well maintained.

It is also to be hoped that all members, and conductors in particular, will strive for a high standard of performance in peals. The only excuse for ringing a peal is to ring a good one, and conductors should not hesitate to set the bells up if the standard of striking is not the best that can be expected from those taking part. 'Peal-at-any-price' tactics are a discredit to the Association itself and not less to the individual performers.

In addition to the peals rung by the Association, the following were rung in the county by other associations: Royal Society of Cumberland Youths 4, Hawkhurst and District Guild 3, Ancient Society of College Youths, Oxford University Society, Sussex County Association and East Grinstead and District Guild 1 each. This total of 11 compares with 12 rung by other associations in the county in 1948.

ELECTION OF OFFICERS

The president and vice-presidents were re-elected en bloc. Mr. J. Willis was elected a Master in place of Mr. F. White. The other officers re-elected were: Hon. secretary, Mr. G. H. Spice; hon. treasurer, Mr. F. M. Mitchell; hon. auditor, Mr. G. H. Cross; hon. peal secretary, Mr. P. A. Corby; and the committee, Messrs. E. Barnett, G. J. Butcher, R. A. Constant, G. H. Cross, T. Groombridge, J. Wheadon and J. Willis, was re-elected.

The secretary announced that a clock had been purchased as a memorial to the Rev. H. J. O. Helmore, and would be placed in the ringing chamber of Canterbury Cathedral.

The provision of a badge for the Association was raised by Mr. French. A show of hands indicated a general desire for a badge, and the committee was instructed to make inquiries as to cost.

Thanks to the incumbents for permitting the use of bells were expressed by Mr. J. Willis, and the meeting also decided to minute its appreciation of the services of Mr. F. White to the Association as a trustee and in other capacities.

The proceedings closed with a vote of thanks to the chairman, proposed by Mr. P. A. Corby.

SURREY ASSOCIATION

SOUTHERN DISTRICT.

The quarterly meeting of the Southern District was held at Charlwood (6) on March 25th. The fine weather tempted many to the meeting, although some found that they had to walk from Horley, a distance of about three miles. Members came from many towers, including those as distant as Old Coulsdon and Oxted. In all, 39 sat down to tea.

Seven new members were elected, five of whom belonged to the local band. In accordance with the resolution passed at the annual meeting, a collection was made for the Surrey Association Bell Fund.

Ringing during afternoon and evening included Grandsire, Plain Bob, Treble Bob, Cambridge, London and Woodbine, with some rounds for beginners.

NETTLEBED, OXON.—On Mar. 29th, 1,260 Plain Bob Minor: R. Grove 1, J. Pinchin 2, R. Hope 3, A. Diserens 4, E. Belson 5, H. Wells (cond.) 6. First quarter of Minor for all except the 4th.

W. H. Thompson

A FORGOTTEN STUDENT OF COMPOSITION.

William Henry Thompson, son of Frederick Elijah Thompson, of London, was born in the parish of Marylebone, on September 26th, 1840. He was educated at King's College School and at Rugby.

He proceeded to Gonville and Caius College, Cambridge, to take mathematics, being scholar 1860-1866. He gained his B.A. in 1863 (23rd wrangler) and M.A. in 1869. In 1863 he entered the Indian Civil Service and was Assistant Magistrate and Collector at Dacca. He retired in 1868 and was called to the Bar, Inner Temple, in 1872. He practised for some time as a barrister in the Punjaub. By 1898 he had retired to 4, Sillwood Street, Brighton.

Probably while still at College he became interested in the theory of composition, and in 1886 he published 'On Grandsire Triples,' a pamphlet proving that a peal by common bobs only is unattainable. This pamphlet is reviewed on p. 197 of 'Grandsire' (Snowdon Series). The proof, although not difficult when understood, clearly shows the mathematical mind, as it considers oddness or evenness without specifying actual value. It was Thompson himself who dubbed a 'Q-set' by its unusual name.

Later, but before 1906, he conducted an almost complete analysis of the composition of Grandsire Triples in parts. It is clear that he was interested only in Triples methods, where all the changes must be used in a peal, and he demonstrated how the process of composition of peals in parts can be economised in regard to thought and paper by means of diagrams. It is obvious that he made no vigorous claims about the originality of his research, and his delight was in showing others how to use his diagrams. One cannot imagine him making such a statement as in the third paragraph, p. 197, of 'Grandsire.' Thus, in his paper on Union Triples (1893) he says, p. 15, 'Thus I preclude myself from finding more than one-quarter (of peals) of the whole system, but I have pointed out how the remaining three-quarters may be found.' This paper is not widely known as Union Triples is not popular, but it shows the same analytical mind, and a complete exposition on a particular type of peal.

He also deal a little with Stedman Triples. In 'Stedman' (Snowdon Series, first edition, 1903) appeared a proof by Thompson that not more than 20 true plain courses could be had together. The proof is incorrect. Subsequently, in 1908, John Carter quoted 30 true courses, and less than a month later three men (Carter, J. J. Parker, J. W. Parker) quoted 40 in the same copy of the 'Bell News.' Thompson immediately apologised, and in June, 1909, produced two amended proofs, the second one being simple, and showing that not more than 40 may be had true.

Until his death in 1934, Thompson remained with his landlady, Mrs. Varney, at 4, Sillwood Street. In the latter years of his life he rarely went out. His last year was spent a total invalid, and he refused to leave Mrs. Varney, who had so well looked after him. That he was a methodical man is shown by an envelope I have, addressed to him. He had written on the back, 'By the afternoon post on Monday, May 9th, 1932. Wrote thanks same day.'

He died aged 93 on July 10th, 1934, and was buried three days later in the Brighton Extra Mural Cemetery, in the same grave as one Theophilus Jones, probably a relation. There is nothing on the grave to show that he is buried there, but the cemetery records show the facts.

Where is the wealth of material on change ringing that he must have produced? Enquiries with landlady, relatives, and solicitors have failed to find anything. The Central Council library has only his printed papers. Where are the papers and model he sent William Snowdon? These and other questions must be answered before it is too late and as many of his papers as possible should be preserved with those of other men that are treasured. To many he is just name, but just because his work lay in directions that have not modern popularity, we should not forget his monumental work.

I am indebted to Caius College, Cambridge, to Miss Lumsden, and to Mrs. Varney (both of Brighton) for valuable information.

B. D. P.

NOTICES

The charge for one insertion of a notice of a meeting is one penny per word, minimum 2s. For additional insertions with no change one-half above charge for each insertion.

Other notices one penny per word, minimum 2s. 6d.

All notices must be prepaid.

Notices must be received not later than Monday.

MARRIAGE

HOWARD—BRADING.—On Apr. 13th, 1950, at Busbridge Parish Church, Godalming, Arthur Denis, only child of Mr. and Mrs. W. Howard, and Rosemary Ann, only daughter of Mr. and Mrs. M. C. Brading, of Godalming. 6800

GOLDEN WEDDING

WILSON—DUNN.—On Apr. 16th, 1900, at All Saints' Church, Wootton Bassett, by the Rev. E. Cockshott, Louis Alfred Wilson and Alice Clara Dunn, both of Ottery St. Mary, Devon. 6873

DEATH

FORD.—On Apr. 6th, 1950, Herbert James Ford, of Sevenoaks, Kent, in his 78th year. 6869

RETURN THANKS

MR. W. H. SHUKER and family are most grateful for all the sympathy they have received during their sad bereavement and wish to express their most sincere thanks.—36, Colwyn Avenue, Fallowfield, Manchester 14. 6862

PUBLICATIONS

'CHURCH BELLS AND RINGERS OF NORWICH,' by A. G. G. Thurlow, 5s. 6d. post free from the author, St. Clement's Rectory, 3, Colegate, Norwich. An account of the bells of one of England's most historic cities, well illustrated with plans, cross sections and pictures. Second edition, much improved; no increase in price.

'THE ART AND SCIENCE OF HANDBELL RINGING,' illustrated, by J. M. Turner, Washfield, Devon, late president of N.E. Devon Guild of Ringers and broadcaster. 3s. 6d. post free from the Author. 6787

No better pen picture of early ringing societies has been published than J. Armiger Trollope's 'COLLEGE YOUTHS,' illustrated, 5s. 6d. post free.—'The Ringing World,' c/o Woodbridge Press, Ltd Guildford.

'SCOTTISH RINGS OF BELLS,' by Ranald Clouston, 2s. post free from the author at COOKLEY FARM, EYE, SUFFOLK. 6715

MISCELLANEOUS

BACK NUMBERS. — A limited number of back numbers for most issues of 1946 and 1947 are available, post free 4d. per copy.—Apply Editor, 'The Ringing World,' c/o Woodbridge Press, Ltd., Guildford

PEAL CARDS can now be ordered at 5s. a set of 12, post free (minimum charge). Order and remittance must be sent with peal report.

EXTRA COPIES. — It is an advantage if those requiring extra copies will send their orders at the time copy of peals or quarter peals are submitted.

MEETINGS

GUILDFORD DIOCESAN GUILD.—Annual meeting at Guildford, April 15th. S. Nicolas' bells afternoon and evening. Bells, Cathedral, 3.30. Service there (at which the Lord Bishop of the Diocese will be present) 4.15. Tea and meeting at Trinity Hall 5 p.m.—G. L. Grover, Hon. Sec., East Clandon. 6740

HERTFORD COUNTY ASSOCIATION. — Annual general meeting, Saturday, April 15th, at Hitchin. Bells available: Hitchin, from 2.30 p.m.; Norton (8); St. Ippolyt's (6), from 11 a.m. to 12 and 2 p.m. to 4 p.m.; Great Wymondley (6), from 2 to 4. Service, Hitchin, 4.30. Tea, The Angel, at 5.30, for 60 *only*. Those requiring tea to apply to Mr. A. E. Symonds, The Cottage, Windmill Hill, Hitchin. There are other tea rooms in the town for any others. Notice of motions: (a) That the annual subscription for ordinary ringing members be increased to 2s. 6d. (b) That the peal booking fee be increased to 3d. per bell.—W. Ayre, General Secretary. 6771

ESSEX ASSOCIATION.—Northern District. —Meeting at Pebmarsh (6), April 15th. Bells 2.30 p.m. Service 4.30 p.m. Names for tea to G. Trendell, Post Office, Pebmarsh, Halstead. Arrangements made for members to catch buses in the evening. 6770

GUILD OF DEVONSHIRE RINGERS.—N.E. Branch.—Quarterly meeting, Huntsham, Apr. 15th. Bells 3. Service 4.30. Tea 5. Coach leaves Silverton 2.15, Tiverton 2.45. Names for tea and coach.—C. G. Dymond, Branch Sec. 6793

BATH AND WELLS ASSOCIATION.—Glastonbury Deanery.—Meeting Wookey, Saturday, Apr. 15th, 2. Service 4. Tea and meeting.—Wm. Marsh, Dovecotes, Street, Somerset. 6795

HAWKHURST AND DISTRICT GUILD.—Meeting, Battle, on Apr. 15th. Bells 3. Please make own tea arrangements. Cafes near to church.—H. Gorringe, Hon. Sec. 6802

LONDON COUNTY ASSOCIATION.—Southern District meeting, Saturday Apr. 15th, Immanuel Church, Streatham Common, 2.45. Service 4. Tea 4.30. Business 5.30. St. Leonard's 6.30.—Hutchings, TEM 0794. 6796

ANCIENT SOCIETY OF COLLEGE YOUTHS.—Next meeting Saturday, Apr. 15th, Christ Church, Southgate, 4.30 p.m., and after the meeting.—A. B. Peck, 1, Eversfield Road, Reigate. 6821

ELY DIOCESAN ASSN.—Cambridge District.—Duxford (6), Saturday, Apr. 15th. Bells 3. Service 4.15. Tea 5.—H. L. Martin, Dis. Sec. 6834

ELY ASSOCIATION.—Wisbech Branch.—Meeting Upwell, Apr. 15th. Bells (6) 2.30. Service 4.30. Tea 5; own food.—J. E. Fox, Dis. Sec. 6810

ELY DIOCESAN ASSOCIATION.—Hunts District.—Hemingford Grey, Saturday, Apr. 15th. Bells (6) 3. Service 4.30. Tea 5. Names for tea to F. Warrington, 4, Needingworth Road, St. Ives, please.—S. Gilbert, Dis. Sec. 6812

LINCOLN DIOCESAN GUILD.—Northern Branch (Gainsborough District).—A meeting will be held at Upton on Saturday, Apr. 15th. Bells (5) available during afternoon only. Service 4.30. Tea at Lea 5.30, followed by business meeting. Lea bells available in evening.—George L. A. Lunn, Hon. Sec., Crow Garth, Lea, Gainsborough. Tel. 2623. 6818

EAST GRINSTEAD GUILD.—Wadhurst, Apr. 15th. Bells (6) 2.30. Tea 5, at Durgates Lodge. Names to C. Bassett, Pendrill Place, Wadhurst. 6827

YORKSHIRE ASSOCIATION (Southern District) and BARNSLEY DISTRICT SOCIETY.—Joint meeting Rawmarsh, Saturday, Apr. 15th. Bells (8) from 3. Names for tea to Mr. G. R. Hiner, 44, Spalton Road, Rawmarsh, near Rotherham. 6801

SUSSEX ASSOCIATION.—Southern Division.—Practice meeting, Buxted, Saturday, Apr. 15th. Bells (8) 3. Tea 4.30.—Mr. E. Eade, Hon. Sec., Beacon View, Buxted. 6805

ELY ASSOCIATION.—Ely District.—Wilburton (6), Sat., Apr. 15th. Bells 2.30. Service 4.30. Tea 5.—C. Gimbert, Sutton, Ely. 6803

GLOUCESTER AND BRISTOL ASSOCIATION.—South Forest Branch.—Meeting at Littledean, Saturday, Apr. 15th. Bells (6) 2. Service 4. Tea 4.30.—J. C. Goulding, 27, High Street, Lydney, Glos. 6340

SALISBURY DIOCESAN GUILD.—Marlborough Branch.—Next meeting Everleigh, Apr. 15th.—T. A. Palmer, Baydon Hill, Aldbourne, Marlborough. 6836

PETERBOROUGH DIOCESAN GUILD.—Guilsborough Branch.—Meeting at Yelvertoft on Saturday, Apr. 15th. Names for tea to E. Orland, High Street, Long Buckby, Rugby. 6835

GUILD OF CLERICAL RINGERS.—The annual business meeting will be held at the Queen's Hotel, Chester, on Thursday, Apr. 20th, at 8.15.—E. V. Cox, Hon. Sec., West Hill, Ottery St. Mary, Devon. 6838

CAMBRIDGE UNIVERSITY GUILD.—Annual general meeting will be held at 9 on Thursday, Apr. 20th, in the Dean's Rooms, Clare. Practices at St. Benedict's and St. Andrew's at 8. 6746

LANCASHIRE ASSOCIATION. — Bolton Branch.—Meeting at St. Mary's, Deane, on Saturday, Apr. 22nd, not 29th. Bells available 2.30. Business meeting 6.30. Cups of tea provided.—Peter Crook, Hon. Sec. 6866

ASHTON-UNDER-LYNE SOCIETY OF CHANGE RINGERS.—Annual meeting, Ashton Parish Church (13 bells), Saturday, Apr. 22nd, 3. All ringers and learners welcome. Tea reservations to Miss E. Walker, 163, Portland Street. 6792

LINCOLN DIOCESAN GUILD. — Elloe Deaneries Branch.—Quarterly meeting will be held at Gosberton on Saturday, Apr. 22nd. Bells available 2.30. Service 4. Tea 4.45. Names for tea to Mr. F. Payne, High Street, Gosberton, Spalding, before Apr. 15th. 6816

HERTS ASSOCIATION.—Eastern District.—Meeting Hertford, Saturday, Apr. 22nd, St. Andrew's. Bells 3. Service 4.30. Tea 5. Names to A. S. Carter, 93, North Road, Hertford. 6790

KENT COUNTY ASSOCIATION.—Canterbury District. — Quarterly meeting Goodnestone, Saturday, Apr. 22nd. Bells 2.30. Service 4.15. Names for tea at 1s. 9d. per head (with cash enclosed) to me not later than Wednesday, Apr. 19th.—B. J. Luck, 20, Beaconsfield Road, Canterbury. 6806

PETERBOROUGH GUILD. — Wellingborough Branch.—Quarterly meeting at Mears Ashby, Saturday, Apr. 22nd. Names for tea, please.—A. Bigley, 30, Allen Road, Irthlingborough. 6807

OXFORD GUILD.—Newbury Branch.—Hampstead Norris, Saturday, Apr. 22nd, 3. Names to Mr. J. Weaving, Hackney Bottom, Hampstead Norris, Newbury, by Apr. 19th.

LINCOLN DIOCESAN GUILD.—Grimsby District.—Meeting at Winterton, Apr. 22nd. Bells (6) 2.30. Service 4.15. Tea 5. Names for tea by Apr. 19th to H. Hall, West Street, Winterton, Scunthorpe. 6816

OXFORD DIOCESAN GUILD.—E. Berks and S. Bucks Branch.—Annual meeting Saturday, Apr. 22nd. Bray (8) 3. Service 4.15. Tea 5.15. Meeting 6. Names for tea by 17th.—Barker, Cambridge, Wexham, Slough. 6815

SURREY ASSOCIATION.—Southern District.—Bi-monthly meeting at Betchworth (8) on Apr. 22nd, 3. Service 5, tea following. Ringing until 9. Names for tea by Wednesday, Apr. 19th, to Rev. A. G. Hoare, The Vicarage, Betchworth, Surrey. 6828

MIDDLESEX ASSOCIATION. — Annual meeting, Clerkenwell, Apr. 22nd. Service 4.30, followed by tea and meeting. Bells, Clerkenwell, 3; Holloway and St. Giles-in-the-Fields after meeting. Names for tea to Ernest Turner, 41, Windsor Road, Ealing. 6823

NORWICH ASSOCIATION.—North Norfolk Branch.—Meeting at Cromer on Saturday, Apr. 22nd. Bells (6) from 2.30. Service 4.15. Tea 5. Names or numbers by Tuesday, Apr. 18th, please, to H. Tooke, The Lizard, Wymondham, Norfolk. 6819

ESSEX ASSOCIATION.—N.E. Division.—Meeting at Great Bentley on Saturday, Apr. 22nd. Bells (8) from 2.30. Service 4.30. Tea 5 at Red Lion. Names for tea by the 19th, please.—H. J. Millatt, Dis. Sec., c/o 54, Beche Road, Colchester, Essex. 6829

SALISBURY DIOCESAN GUILD.—Calne Branch.—Meeting at Wootton Bassett, Apr. 22nd. Dedication of new ringing chamber. Service 3. Tea for all ringing friends at the Vicarage. Please advise by Apr. 17th for tea.—L. A. Wilson, Hon. Sec. 6874

MIDLAND COUNTIES GUILD.—Meeting at Rolleston-on-Dove. Apr. 22nd. Bells (8) 2.30. Service 4.30. Tea and meeting 5. Names to J. W. Cotton, Overseal, by Apr. 20th. 6872

MARKSBURY, NEAR BATH.—Corporate Communion, Apr. 23rd, 8 a.m. Bells 7.15 a.m. Breakfast reserved for those notifying me by Apr. 21st.—W. A. Prescott, Timsbury, near Bath. Phone Timsbury 87. 6822

LEICESTER DIOCESAN GUILD.—Melton District.—Meeting at Eaton on Saturday, Apr. 22nd. Bells 3. Service 4.30. Tea and meeting, Institute 5. Names to Mr. J. Morris, Chapel Street, Eaton, Grantham. 6871

SALISBURY GUILD.—Dorchester Branch.—Quarterly meeting Upwey, Apr. 22nd. Bells (6) 2.30. Service 4. Tea and meeting after. Please notify by Apr. 18th.—Hayne, Hon. Sec., Abbotsbury, Weymouth. 6837

SCOTTISH ASSOCIATION.—Annual meeting at St. Mary's Cathedral, Edinburgh, on Saturday, Apr. 22nd. Ringing commences 2.30. Business meeting. 6870

GLOUCESTER AND BRISTOL ASSOCIATION.—Stroud Branch.—Quarterly meeting at Avening, (6), Apr. 22nd, 2.30. Names for tea to Mr. S. T. Price, 1, Bridge Cottage, Stonehouse, Glos. by Apr. 18th. 6867

BEDFORDSHIRE ASSOCIATION.—Luton District.—Quarterly meeting at Dunstable, Apr. 22nd. Note date. Bells (8) 3. Tea 5.—Valerie Willard, Dis. Sec. 6861

PETERBOROUGH DIOCESAN GUILD.—Peterborough Branch.—Meeting at Thornaugh (5) on Saturday, Apr. 22nd. Service 4. Tea 5. All Saints', Stamford (6), will be available after tea. Please notify me for tea by Tuesday previous.—W. H. Waldron, Hon. Sec., 137, Scotney Street, Peterborough. 6860

LEICESTER DIOCESAN GUILD.—Leicester District.—Anstey (8), Apr. 22nd. Bells 3. Service 4.30. Tea 5. Names for tea to P. J. Staniforth, 16, Albion Street, Anstey, by Apr. 19th. J. R. Smith. 6859

BATH AND WELLS ASSOCIATION.—Axbridge Branch.—Quarterly meeting Brent Knoll (6), Saturday, Apr. 22nd. Bells 2.30 to 9. Service 4.30, followed by tea and meeting, Shamrock House. Numbers for tea to Mrs. Jefferies, Shamrock House, Brent Knoll, Somerset, by Tuesday, Apr. 18th.—E. J. Avery, Hon. Sec., Sandford, Bristol. 6858

DEVON GUILD.—Mid-Devon Branch. — Lustleigh (6), Saturday, Apr. 22nd. Usual arrangements.—A. L. Bennett, Cornerways, Buckfastleigh. 6857

PETERBOROUGH DIOCESAN GUILD.—Kettering District.—Quarterly Isham (6), Apr. 22nd. Notify for tea by 18th, please.—G. Watson, 81, Church Street, Burton Latimer. 6856

LEICESTER DIOCESAN GUILD.—Market Harborough District.—Medbourne, Apr. 22nd. Tea 5 o'clock, Horse and Trumpet. Names for outing, June 3rd, at this meeting.—L. W. Allen. 6855

CHESTER DIOCESAN GUILD.—Chester Branch.—Spring meeting Waverton, Apr. 22nd. Bells 2.30. Service 4. Names for tea not later than Apr. 19th.—G. E. Griffiths, 38, Beeston View, Chester. 6851

COVENTRY DIOCESAN GUILD. — On Saturday, Apr. 22nd, at 3, at St. Nicolas' Church, Nuneaton, Canon F. S. Herbert (vice-president) will dedicate a peal board recording peal rung as thanksgiving for life and service to Guild of Mr. T. W. Chapman. Tea at 5 for all who notify Peter Wright, 43, Vicarage Street, Nuneaton, by Wednesday, Apr. 19th. Ringing until 8. All members and friends welcome.—Mrs. D. E. Beamish, Gen. Hon. Sec., 21, Gipsy Lane, Nuneaton. 6849

DURHAM AND NEWCASTLE ASSOCIATION.—Eastern District.—Houghton-le-Spring, Saturday, Apr. 22nd, 2.30. Tea for all who notify Mr. J. H. Masters, 17, Burns Avenue South, Houghton-le-Spring, by Apr. 20th. Method, Plain Bob Major among many others.—W. F. Sheraton, Sec. 6844

KENT COUNTY ASSOCIATION.—Lewisham District.—Quarterly meeting Bexley, Saturday, Apr. 22nd, 2.30. Service 4. Names for tea by Monday, Apr. 17th, to A. Hill, 24, Stanmore Road, Belvedere. 6845

LEICESTER DIOCESAN GUILD.—Loughborough District.—Castle Donington, Apr. 22nd. Bells 2.30. Service 4.30. Tea 5, Bondgate Cafe. Names to Mr. K. Brown, 33, Eastway, Castle Donington, Derby, by Apr. 18th. No names, no tea.—C. W. Hall. 6846

WINCHESTER AND PORTSMOUTH GUILD. — Basingstoke District. — Quarterly meeting Overton, Saturday, Apr. 22nd. Bells 2.30. Service 4.30. Names for tea to B. Garrett, 26, Southington, Overton, Hants, by Apr. 18th.—J. Chesterman, Dis. Sec. 6841

MUCH HADHAM, HERTS.—Dedication of two new trebles, new frame and old six rehung, Sunday, Apr. 23rd, at 11 o'clock.—F. G. Springham, Green Tye, Much Hadham, Herts. 6842

LINCOLN DIOCESAN GUILD.—Annual general meeting Lincoln, Apr. 29th. Ringing Cathedral 2 to 3.45, St. Giles' and St. Peter-at-Gowts, 2 to 3.30. All available after meeting. Cathedral evensong 4. Tea Wesley Schoolroom, Clasketgate, 5, followed by business meeting. Names (not numbers) for tea by Apr. 25th to Mr. J. A. Freeman, 95, Sincil Bank, Lincoln.—J. Bray, Hon. Sec. 6847

SOCIETY OF ROYAL CUMBERLAND YOUTHS.—Meeting at Luton, Saturday, Apr. 29th. Ten bells (tenor 25½ cwt.) available 3. Tea 5, followed by business meeting. Names for tea by Wednesday, Apr. 26th, please, to Mr. H. P. Burton, 129 Bradley Road, Luton, Beds.—Peter N. Bond, Hon. Sec. 6850

NORWICH DIOCESAN ASSOCIATION.—East Norfolk Branch.—Meeting at Winterton (6), Saturday, Apr. 29th. Bells 2.30. Service 4.30. Tea 5. Names or numbers for tea by Wednesday, Apr. 26th, particular, to Mr. R. E. Woodhouse, Clink Road, Winterton. Eastern Counties buses from Yarmouth.—J. Harwood, Sec., 189, Palgrave Road, Great Yarmouth. 6852

OXFORD DIOCESAN GUILD.—South Oxon Branch.—The annual meeting will be held on Apr. 29th at Thame. Bells 2.45. Service 4. Tea and meeting afterwards. Names for tea by Apr. 25th to H. Badger, Branch Sec, 38, North Street, Thame. 6848

YORKSHIRE ASSOCIATION.—Eastern District.—Joint meeting with Selby and District Society at Eastrington, Apr. 29th. Bells (6) 2.30. Tea 2s. 6d.; apply Mr. P. Powls, Rae Neath, Eastrington, near Goole.—H. S. Morley, 28, Church Hill, Selby. 6864

LANCASHIRE ASSOCIATION.—The annual meeting will be held at the Priory Church, Lancaster, on Apr. 29th. Notice for tea to Mr. J. Woods, 44, Blades Street, Lancaster, before Apr. 24th.—W. H. Shuker and F. Dunkerley. 6863

(Notices continued on next page.)

NOTICES—continued.

LEEDS AND DISTRICT SOCIETY.—Annual general meeting will be held at Leeds Parish Church on Saturday, Apr. 29th. Bells available from 2.30. Tea (4.30) will be arranged for all who notify Mr. R. H. Dove, 26, Sycamore Avenue, Leeds 8, by Apr. 26th. Business meeting in tower 7. A good attendance is desired.—H. Lofthouse, Hon. Sec. 6855

DERBYSHIRE ASSOCIATION (Peak District) and CHESHIRE GUILD (Bowdon, Stockport, Mottram Branch).—Joint meeting Fairfield (8), Apr. 29th, 3. Service 4.30. Tea (2s. 6d.) 5.15. Names for tea to Mr. E. Ellison, 70, King's Road, Fairfield, Buxton, before Apr. 25th.—Miss D. J. Dunn, Darley Dale. 6865

HALIFAX AND DISTRICT SOCIETY

The quarterly meeting and six-bell contest were held at Elland on April 1st, and the results were as follows:—

		Penalties.	Faults.	Total.
1.	Meltham ...	5	153	158
2.	Friezland ...	10	93	103
3.	Cawthorne ...	5	117	122
4.	Silkstone	0	138	138
5.	Shelley No. 1. ...	35	107	142
6.	Saddleworth ...	10	117	127
7.	Mixed	5	151	156
8.	Shelley No. 2 ...	0	143	143

Nos. 1 and 2 companies, Meltham and Friezland, were disqualified for ringing 600 changes instead of 504.

No. 5 company, Shelley No. 1, incurred 30 penalties for not ringing in their correct turn.

No. 3 company, Cawthorne, were declared the winners of the silver cup by the president, Mr. E. Earnshaw.

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Section III., Double Norwich C.B.		9
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