THE RINGING WORLD

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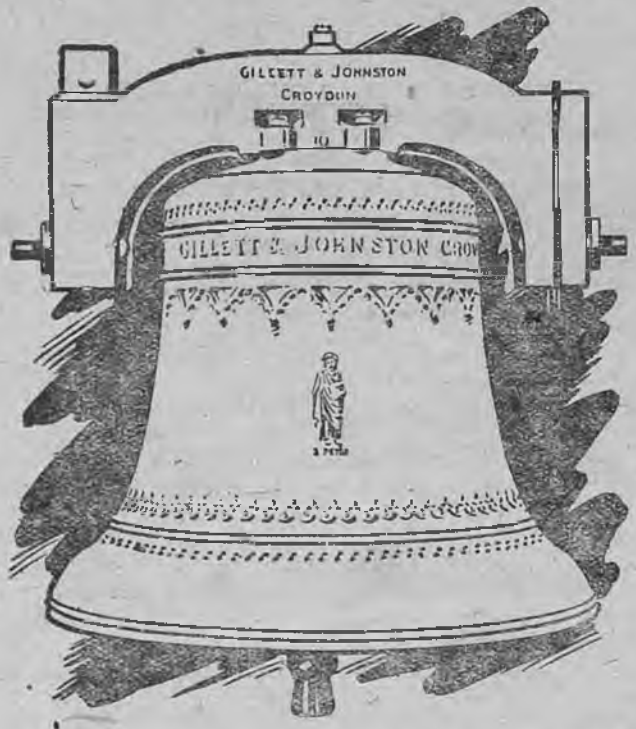
GILLETT & JOHNSTON

CROYDON, SURREY.



The 30 cwt. Tenor of the Ring of 10 at St. Peter's, Croydon.

CHURCH BELLS,
CARILLONS,
CLOCKS.

FINANCE AND RECONSTRUCTION.

The question of resuscitating the exercise is one which is occupying at present the attention of most of the associations whose chief business it is to work for the advancement of the art of ringing. But in connection with this effort of revival there is a financial side which societies cannot ignore. Some of the balance-sheets submitted at Monday's meetings revealed the fact that the associations concerned have had no little difficulty in making ends meet. There have been serious losses in receipts, for not only have there been a falling off in hon. members' subscriptions and a suspension of payments by men who have been fighting overseas, but—and this is not altogether creditable—many who have remained at home have allowed their contributions and membership to lapse. There is, therefore, with numerous associations, considerable leeway to make up to raise the revenue to a pre-war standard and much work to be done if the financial position is to be sufficiently improved to meet the extra demands that will have to be faced if progress is to be made.

Some associations allow part railway fares or teas to members attending meetings; all of them require printing and such like necessities, and the future cost of these things promises to be much higher than before the war. Societies consequently are faced with reduced receipts on the one hand and the prospect of increased expenses on the other, and this must give the members, and particularly the officials, food for serious thought. Some of the associations have substantial reserve funds upon which they can draw if needs be; but even these could not go on losing money indefinitely, and it is quite plain that the financial concerns of ringing organisations will have to be carefully watched. Many of the ways in which the position can be safeguarded are, of course, obvious. If expenditure cannot be curtailed, income must be increased, and there are some societies in which, while there would be a reluctance to raise the amount of the individual subscriptions, this course might very well be adopted without any hardship.

On the other hand, there is the possibility of increasing the number of hon. members, and there ought to be more made of this than is often the case. There is also the still more important business of bringing in new active members and regaining the old who have lapsed. Recruiting work in this direction is open to every member of an association, and he ought to "do his bit." An organised effort would well repay the trouble, and "missionary" enterprise, which we have so often advocated in these columns, and which was beginning to make itself felt in many centres before the war, ought to be part of any reconstruction scheme.

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TEN BELL PEALS.

BEDDINGTON, SURREY.
THE SURREY ASSOCIATION.

On Saturday, April 5, 1919, in Three Hours and Twelve Minutes,
AT THE CHURCH OF ST. MARY,

A PEAL OF STEDMAN CATERS, 5055 CHANGES;

Tenor 21 cwt. in E.

JOSEPH A. LAMBERT ...	...*Treble*	WILLIAM S. SMITH	6
ALFRED H. WINCH	2	JOHN HOYLE...	7
WILLIAM H. JOINER	3	ALFRED J. TRAPPITT	8
DAVID WRIGHT	4	ARTHUR DEAN	9
HENRY L. GARFATH	5	C. W. ROBERT GRIMWOOD...	*Tenor*

Composed by J. W. WASHBROOK.
Conducted by W. S. SMITH.

This peal has the 6th behind the 8th and 9th in alternate courses.

LONDON.
THE KENT COUNTY ASSOCIATION.

On Saturday, April 5, 1919, in Three Hours and Forty-Eight Minutes,
AT ST. SAVIOUR'S CATHEDRAL, SOUTHWARK,

A PEAL OF KENT TREBLE BOB ROYAL. 5000 CHANGES;

Tenor 50 cwt.

ISAAC G. SHADE... ...	...*Treble*	CORNELIUS CHARGE	6
WALTER S. WISE	2	WILLIAM SHEPHERD	7
GEORGE R. PYE...	3	JAMES GEORGE	8
FRANK I. HAIRS	4	WILLIAM PYE	9
*THOMAS GROOMBRIDGE, JUN.	5	THOMAS GROOMBRIDGE, SEN.	*Tenor*

Composed by NATHAN J. PITSTOW.
Conducted by WILLIAM PYE.

* First peal of Treble Bob Royal. Rung after meeting short for Treble Twelve.

LONDON.
ANCIENT SOCIETY OF COLLEGE YOUTHS.
STEPNEY, E.

On Saturday, April 12, 1919, in Three Hours and Twenty-Four Minutes,
AT THE CHURCH OF ST. DUNSTAN, STEPNEY, E.

A PEAL OF STEDMAN CATERS, 5002 CHANGES;

Tenor 31 cwt.

THOMAS LANGDON ...	...*Treble*	MAJOR J. H. B. HESSE ...	6
FREDERICK G. SYMONDS ...	2	WILLIAM S. LANGDON... ...	7
ARTHUR W. DAVIS	3	REUBEN SANDERS	8
HERBERT LANGDON	4	EMANUEL HALL	9
JAMES SCHOLES	5	GEORGE BARRELL ...	...*Tenor*

Composed by CORNELIUS CHARGE.
Conducted by HERBERT LANGDON.

Rung as a birthday compliment to Miss Macalpine-Leny.

EIGHT BELL PEALS.

DRIGHLINGTON, YORKSHIRE.
THE YORKSHIRE ASSOCIATION.

On Sunday, March 23, 1919, in Three Hours and Twelve Minutes,
AT THE CHURCH OF ST. PAUL,

A PEAL OF KENT TREBLE BOB MAJOR, 5152 CHANGES;

Tenor 16 cwt.

JOSEPH BROADLEY ...	...*Treble*	CHARLES SENIOR...	5
ERNEST H. SIMPSON	2	FIRTH HOPWOOD	6
HERBERT DRANSFIELD ...	3	FRANCIS BARKER	7
JOHN PALFRAMAN...	4	JOSEPH E. SYKES	...*Tenor*

Composed by the late JOHN THORP.
Conducted by JOSEPH E. SYKES.

PENDLETON, LANCASHIRE.
THE LANCASHIRE ASSOCIATION.

On Monday, March 24, 1919, in Three Hours and One Minute,
AT THE CHURCH OF ST. THOMAS,

A PEAL OF GRANDSIRE TRIPLES, 5040 CHANGES;

ASTLEY JOHNSON	...*Treble*	M. OLDFIELD	5
F. STONELEY	2	JOHN HARRISON	6
FRED PAGE	3	W. W. WOLSTENCROFT ...	7
JOSEPH WINTERBOTTOM ...	4	AMOS TRIPPIER	...*Tenor*

Composed by JOHN CARTER.
Conducted by W. W. WOLSTENCROFT.

BROMLEY COMMON, KENT.
THE KENT COUNTY ASSOCIATION.
On Thursday, March 27, 1919, in Three Hours,
AT THE CHURCH OF ST. LUKE,

A PEAL OF GRANDSIRE TRIPLES, 5040 CHANGES;

GROVES' VARIATION OF PARKER'S TWELVE-PART. Tenor 15¼ cwt.

*WILLIAM LYDDIARD ...	...*Treble*	GEORGE F. JAMES ...	... 5
E. MAURICE ATKINS ...	... 2	ISAAC EMERY ...	... 6
GEORGE DURLING ...	... 3	THOS. GROOMBRIDGE, SEN.	7
JOHN LYDDIARD ...	... 4	†HENRY J. TINNAMS ...	...*Tenor*

Conducted by THOS. GROOMBRIDGE, SEN.
* First peal away from the tenor. † First peal.

NORTHOWRAM, YORKSHIRE.
THE YORKSHIRE ASSOCIATION.
On Saturday, March 29, 1919, in Three Hours and Four Minutes,
AT THE CHURCH OF ST. MATTHEW,

A PEAL OF GRANDSIRE TRIPLES, 5040 CHANGES;

J. J. PARKER'S SIX-PART. Tenor 16 cwt.

ALBERT JAGGER ...	...*Treble*	JOSEPH E. SYKES ...	... 5
JOSEPH BROADLEY ...	... 2	FIRTH HOPWOOD ...	... 6
ERNEST H. SIMPSON ...	... 3	FRANCIS BARKER ...	... 7
JOHN PALFRAMAN ...	... 4	THOMAS B. KENDALL ...	...*Tenor*

Conducted by FRANCIS BARKER.

This was the first peal in the method and the quickest peal on the bells, and Mr. Joseph Broadley's 250th peal.

IRTHLINGBOROUGH, NORTHANTS.
THE CENTRAL NORTHAMPTONSHIRE ASSOCIATION.
On Saturday, March 29, 1919, in Three Hours and Nine Minutes,
AT THE CHURCH OF ST. PETER,

A PEAL OF DOUBLE NORWICH COURT BOB MAJOR, 5120 CHANGES;

Tenor 10 cwt. 1 qr. 4 lbs.

*GEORGE HEWITT ...	...*Treble*	EDWARD P. DUFFIELD ...	5
JAMES HOUGHTON ...	... 2	WALTER PERKINS ...	... 6
JAMES GARRATT ...	... 3	JOHN J. MAWBY ...	... 7
FRED WILFORD ...	... 4	ANDERSON Y. TYLER ...	...*Tenor*

Composed by C. H. MARTIN, of Hendon.
Conducted by ANDERSON Y. TYLER.

* First peal on eight bells.

Rung to welcome to Irthlingborough the Rev. W. Frift, who was inducted by the Bishop of Peterborough.

STONEY STANTON, LEICESTERSHIRE.
THE WARWICKSHIRE GUILD.
On Saturday, March 29, 1919, in Two Hours and Fifty-Five Minutes,
AT THE CHURCH OF ST. MICHAEL.

A PEAL OF DOUBLE NORWICH COURT BOB MAJOR, 5056 CHANGES;

Tenor 14 cwt.

CHARLES H. BRIGGS ...	...*Treble*	FREDERICK H. DEXTER ...	5
HARRY BROUGHTON ...	... 2	ABRAHAM WILKIESON ...	... 6
ERNEST STONE ...	... 3	JAMES F. CLARK, JUN.	... 7
HARRY BRIGGS ...	... 4	THOMAS W. CHAPMAN ...	...*Tenor*

Composed and Conducted by FREDERICK H. DEXTER.

CHIDDINGFOLD, SURREY.
THE WINCHESTER DIOCESAN GUILD.
(GUILDFORD DISTRICT.)
On Saturday, March 29, 1919, in Two Hours and Fifty-Five Minutes,
AT THE CHURCH OF ST. MARY,

A PEAL OF GRANDSIRE TRIPLES, 5040 CHANGES;

HOLT'S TEN-PART. Tenor 11¼ cwt.

WALTER G. BROCKHURST ...	...*Treble*	MAURICE SMITHER ...	... 5
ARTHUR J. BARTLETT ...	... 2	WILLIAM R. MELVILLE ...	6
CHARLES HAZELDEN ...	... 3	LIEUT. A. THOMSON ...	... 7
MRS. C. HAZELDEN ...	... 4	THOMAS ATTWELL ...	...*Tenor*

Conducted by ARTHUR J. BARTLETT.

First peal on tower bells by Mrs. Hazelden, to whom it was rung as a birthday compliment. It was also a farewell peal to Lieut. Thompson, of the 8th Canadian Reserve, who was leaving Witley Camp for Ripon (Yorkshire).

EARLSHEATON, YORKSHIRE.
THE YORKSHIRE ASSOCIATION.
On Saturday, March 29, 1919, in Three Hours and Fifteen Minutes,
AT THE CHURCH OF ST. PETER,

A PEAL OF KENT TREBLE BOB MAJOR, 5088 CHANGES;

J. BARRACLOUGH	...*Treble*	EDGAR CARTER	... 5
J. W. DEWS	... 2	G. H. HARDY	... 6
A. ARMITAGE	3	W. FRITH	... 7
HEMINGWAY DRANSFIELD ...	4	*ALLAN CARTER	...*Tenor*

Composed and Conducted by G. H. HARDY.

Messrs. J. Barraclough, W. Frith and A. Carter hail from Huddersfield, A. Armitage and Edgar Carter from Almondbury, the rest belong to Earlsheaton.

* First peal.

SMETHWICK, STAFFORDSHIRE.
THE WORCESTERSHIRE AND DISTRICTS ASSOCIATION.
(NORTHERN BRANCH.)
On Saturday, March 29, 1919, in Two Hours and Fifty-Six Minutes,
AT THE OLD CHURCH,

A PEAL OF STEDMAN TRIPLES, 5040 CHANGES;

SIR A. P. HEYWOOD'S VARIATION. Tenor 10 cwt.

JOSEPH PIGOTT	...*Treble*	ALFRED DAVIES	... 5
JAMES E. GROVES	2	GEORGE F. SWANN	6
CHARLES DICKENS	3	GEORGE PIGOTT	... 7
WILLIAM FISHER	4	ARTHUR PIGOTT	...*Tenor*

Conducted by GEORGE F. SWANN.

WALKDEN, LANCASHIRE.
THE LANCASHIRE ASSOCIATION.
(BOLTON BRANCH.)
On Monday, March 31, 1919, in Two Hours and Forty-Three Minutes,
AT THE CHURCH OF ST. PAUL,

A PEAL OF GRANDSIRE TRIPLES, 5040 CHANGES;

'TAYLOR'S.' Tenor 13¾ cwt.

ROBERT ALLRED	...*Treble*	JOHN STUBBS	... 5
GEORGE PINCOTT	2	PETER CROOK	... 6
JOHN WELSBY	3	JOHN POTTER	... 7
HARRY ALLRED	4	WILLIAM PENNINGTON	...*Tenor*

Conducted by JOHN POTTER.

Rung to celebrate the coming of age of Miss Annie Potter, second daughter of the conductor. The ringers of the treble and 4th hail from Tyldesley; 2nd, 6th and tenor from Bolton; 5th from Horwich; 3rd and 7th belong to Walkden.

DEWSBURY, YORKSHIRE.
THE YORKSHIRE ASSOCIATION.
On Saturday, April 5, 1919, in Three Hours and Eleven Minutes,
AT THE CHURCH OF ALL SAINTS,

A PEAL OF KENT TREBLE BOB MAJOR, 5184 CHANGES;

Tenor 14¼ cwt.

JOSEPH BROADLEY ...	...*Treble*	CHARLES SENIOR	... 5
JOSEPH E. SYKES	2	FIRTH HOPWOOD	... 6
WILLIAM CLARK	3	FRANCIS BARKER	... 7
WILLIAM JOYCE	4	HERBERT DRANSFIELD	...*Tenor*

Composed by HENRY HALEY.
Conducted by JOSEPH E. SYKES.

Rung in honour of the presentation of the Freedom of the Borough of Dewsbury to Sir Mark Oldroyd.

BRIERLEY HILL, STAFFORDSHIRE.
WORCESTERSHIRE AND DISTRICTS ASSOCIATION.
On Thursday, April 10, 1919, in Three Hours,
AT THE CHURCH OF ST. MICHAEL,

A PEAL OF GRANDSIRE TRIPLES, 5040 CHANGES;

GROVES' VARIATION OF PARKER'S TWELVE-PART. Tenor 14½ cwt.

WILLIAM A. COOPER ...	...*Treble*	WILLIAM POTTER	5
JOHN BASS	2	FREDERICK HODGKISS ...	6
ROBERT MATTHEWS	3	CHARLES E. PERKINS ...	7
ARTHUR E. WHATMORE ...	4	*EDWARD LLOYD	...*Tenor*

Conducted by R. MATTHEWS.

* First peal. Rung to welcome home the treble, 3rd, 5th and tenor men, the first three being now demobilised.

TROWBRIDGE, WILTSHIRE.
THE SALISBURY DIOCESAN GUILD.

On Saturday, April 12, 1919, in Two Hours and Fifty Minutes,

AT THE PARISH CHURCH,

A PEAL OF GRANDSIRE TRIPLES, 5040 CHANGES;

HOLT'S TEN-PART. Tenor 24 cwt.

SAMUEL J. HECTOR ...	...*Treble*	SIDNEY HILLIER	5
*SIDNEY PEPLER	2	TOM KING	6
WALTER FARLEY	3	GILBERT HARDING	7
*CHARLES DOEL	4	JOE DYKE	...*Tenor*

Conducted by G. H. HARDING.

* First peal of Triples.

The peal was rung in honour of the return of Mr. T. King, of Twerton-on-Avon, from Palestine; also a birthday compliment to him and to Mr. and Mrs. S. J. Hector.

WHISTON, ROTHERHAM.
YORKSHIRE ASSOCIATION.

On Saturday, April 12, 1919, in Three Hours and Four Minutes,

AT THE CHURCH OF ST. MARY MAGDALENE,

A PEAL OF GRANDSIRE TRIPLES, 5040 CHANGES;

Tenor 14 cwt. 2 qrs. 22 lbs.

GEORGE OAKES	...*Treble*	WILLIAM WARBURTON ...	5
MISS W. M. HAGUE	2	ALFRED T. BAKER	6
*SIDNEY BRIGGS	3	FRED WATKINSON	7
ARTHUR HAGUE	4	COLIN RYDER	...*Tenor*

Composed by GABRIELLE LINDOFF.
Conducted by FRED WATKINSON.

* First peal.

BOLTON, LANCASHIRE.
THE LANCASHIRE ASSOCIATION.

On Saturday, April 12, 1919, in Three Hours and Four Minutes;

AT THE CHURCH OF THE SAVIOUR,

A PEAL OF STEDMAN TRIPLES, 5040 CHANGES;

Tenor 20½ cwt.

GEORGE PINCOTT ...	...*Treble*	PETER CROOK	5
ALFRED POTTER...	2	WILLIAM PENNINGTON ...	6
*JAMES THOMAS POTTER ...	3	JOHN POTTER	7
TOM WILDE	4	JOHN STUBBS...	...*Tenor*

Composed by J. W. WASHBROOK.
Conducted by JOHN POTTER.

* First peal.

It is 34 years since Mr. Potter rang his first 720 at Walkden. The ringers of the treble, 5th and 6th hail from Bolton, the 2nd and 7th from Walkden, 3rd from Eccles, 4th from Hyde, and the tenor from Horwich.

WYMONDHAM, NORFOLK.
THE NORWICH DIOCESAN ASSOCIATION.

On Saturday, April 12, 1919, in Three Hours and Eighteen Minutes,

AT THE CHURCH OF ST. MARY,

A PEAL OF BOB MAJOR, 5040 CHANGES;

Tenor 25 cwt. 2 qrs.

FRANK R. COPEMAN ...	...*Treble*	WILLIAM C. DUFFIELD ...	5
JOHN A. WYMER	2	JAMES F. DUFFIELD	6
*ALFRED FECKLING	3	WILLIAM L. DUFFIELD ...	7
*WILLIAM HAVERS	4	EDWARD P. DUFFIELD	...*Tenor*

Composed by H. HUBBARD.
Conducted by EDWARD P. DUFFIELD.

* First peal. First peal as conductor.

SIX BELL PEAL.

ST. WEONARDS, HEREFORDSHIRE
THE HEREFORD DIOCESAN GUILD.

On Sunday, March 23, 1919, in Two Hours and Fifty-Nine Minutes,

AT THE PARISH CHURCH,

A PEAL OF GRANDSIRE DOUBLES, 5040 CHANGES;

being 42 six-scores. Tenor 11 cwt.

*JOHN BREWER	...*Treble*	THOMAS W. ROWLEY ...	4
FRANCIS A. OAKLEY	2	WILLIAM COSTON	5
ALFRED BREWER	3	*HARRY BREWER	...*Tenor*

Conducted by WILLIAM COSTON.

Rung half-muffled as a last token of respect to the late Rev. V. A. Creswell, formerly Vicar of the parish, who was an enthusiastic ringer, and himself personally raised a change-ringing band at this church.

* First peal.

FIVE BELL PEAL.

TASBURGH, NORFOLK.
THE NORWICH DIOCESAN ASSOCIATION.

On Sunday, April 13, 1919, in Two Hours and Thirty-Five Minutes,

AT THE CHURCH OF ST. MARY,

A PEAL OF DOUBLES, 5040 CHANGES;

being 30 six-scores of Grandsire and 12 of Bob Doubles.

Tenor 10 cwt.

JOHN R. DUFFIELD ...	...*Treble*	JAMES F. DUFFIELD	3
WILLIAM L. DUFFIELD ...	2	WILLIAM C. DUFFIELD ...	4
EDWARD P. DUFFIELD	...*Tenor*		

Conducted by EDWARD P. DUFFIELD.

First peal by ringer of the treble.

HANDBELL PEALS.

MONKSEATON, NORTHUMBERLAND.
DURHAM AND NEWCASTLE DIOCESAN ASSOCIATION.

On Tuesday, March 25, 1919, in Two Hours and Forty-Eight Minutes,

AT NORTH FARM,

A PEAL OF STEDMAN CATERS, 5017 CHANGES;

R. ALDER GOFTON	1—2	THOMAS T. GOFTON	5—6
WILLIAM H. BARBER	3—4	JOSEPH A. GOFTON	7—8
RICHARD A. GOFTON	9—10		

Composed by GABRIEL LINDOFF.
Conducted by WILLIAM H. BARBER.

First peal on handbells by Richard A. Gofton.

SOLIHULL, WARWICKSHIRE.
THE ST. MARTIN'S GUILD FOR THE DIOCESE OF BIRMINGHAM.

On Sunday, March 30, 1919, in One Hour and Fifty Minutes,

AT MALVERN VILLAS, NEW ROAD,

A PEAL OF BOB MINOR, 5040 CHANGES;

Being seven 720's.

CHARLES BRAGG	1—2	EDGAR C. SHEPHERD	3—4
HARRY BRAGG	5—6		

Conducted by HARRY BRAGG.
Witness: D. MATKIN.

First peal of Minor by all.

BIRMINGHAM.
THE ST. MARTIN'S GUILD FOR THE DIOCESE OF BIRMINGHAM.

On Saturday, April 12, 1919, in Two Hours and Forty-Five Minutes,

AT 81, BAKER STREET, SPARKHILL,

A PEAL OF STEDMAN CATERS, 5065 CHANGES;

THOMAS RUSSAM	1—2	ALBERT WALKER...	5—6
WILLIAM KENT	3—4	JOHN CARTER	7—8
JOHN NEAL...	9—10		

Composed by JOHN CARTER.
Conducted by ALBERT WALKER.
Referee: MR. G. YENDALL.
Witness: MRS. WALKER.

HINTON-ON-THE-GREEN, GLOUCESTERSHIRE.
THE WORCESTERSHIRE AND DISTRICTS ASSOCIATION.
(SOUTHERN BRANCH.)

On Saturday, April 12, 1919, in One Hour and Fifty-Five Minutes,

AT THE RESIDENCE OF MR. F. J. JOHNSON,

A PEAL OF MINOR, 5040 CHANGES;

being 720 of Oxford Bob and two 720's each of Canterbury Pleasure, Plain Bob and Grandsire, each called differently.

Tenor, size 12 in F.

MISS ELLEN M. JOHNSON ...	1—2	CPL. JOSEPH D. JOHNSON ...	3—4
FREDERICK J. JOHNSON ...	5—6		

Conducted by JOSEPH D. JOHNSON.

Rung as a birthday compliment to Mrs. F. J. Johnson.

THE LEANING CAMPANILE OF PISA.

The debated question as to the accidental, or constructive, bend in the leaning tower of Pisa has engaged the attention of architects, engineers, artists and even poets; but the humble bell ringer, whose practical experience in the belfry has taught him certain facts bearing upon the stability and behaviour of masonry, has not as yet ventured to intrude his views on the matter. While mindful that a layman may not give an opinion to experts, I think I may be pardoned for the attempt to contribute toward the solution of this problem from a naval standpoint.

A rare volume, entitled 'De Tintinnabulis,' published 1664, by Hieronymus Magnus, contains a chapter about inclined towers in which appears the only allusion, so far as I know, to the hypothesis of earthquakes to account for their irregularity—a theory condemned by him in strong terms. Indeed, if any such violent disturbance of the earth's crust had actually occurred at Pisa some trace of the accident would doubtless have been left either in fracture of stonework or signs of masonry repair; while a record, or at least the tradition, of so unusual a phenomenon would have survived, notwithstanding the destruction by fire of the archives of the cathedral.

The highly improbable story attributed to Vasari, referring the deflection of the Tower of Pisa to gradual soil settlement during the work of construction, seems not to have reached the ears of Magnus, or else he deemed it unworthy of notice. Nor is it likely that this idea would ever have been seriously entertained, had not Vasari given it the weight of his authority. As sailors do not add freight to a sinking ship, so artisans do not imperil their lives by piling additional weight upon a collapsing fabric.

Rehault de Fleury states that the foundations were exposed in 1838 by means of soundings, and seen to rest on an infinite number of piles strongly buttressed; but no notice seems to have been taken by the labourers of the level of the walls. Inasmuch as the site of cathedral, baptistery and campanile was a recognised marsh, it may be assumed that the artisans of that period made no botch of the job of pile-driving, which had then attained in Italy the highest standard, as shown in the public and private buildings of Venice. Indeed there can be no question as to the efficiency of their work in the adjacent structures whose foundations have been demonstrated by Goodyear to be level, notwithstanding curves and bends in the upper walls now known to have been purposely designed for optical illusions or perspective effects.

It is pertinent to inquire whether we possess means of determining the opinion of the architect and local officials as to the stability of the campanile at the time when it had reached its maximum height (178 ft.) many years before its actual completion in 1350. To this question an unequivocal answer is embodied in the decision to instal an exceptionally heavy peal of seven bells of which the seventh, or largest, weighed about six tons. And hereby is revealed a factor incident to the matter of stability which has hitherto escaped attention. These bells were hung, five in the upper arches (one arch being left for thoroughfare) and the two smaller bells in embrasures above. Of these original bells the first, second and fourth are still preserved. The latter is inscribed with the date, MCCDLXII., and as I have shown elsewhere, is one of the oldest dated bells extant. It is important to observe that these bells were not affixed rigid to a beam, as American chimes are treated, but were fitted with headstock, wheel and other appurtenances to provide for swinging. The bell ropes were brought down through mouse-holes in the stonework, to the ground floor, and the grooves, inches in depth, worn by friction in these holes indicate centuries of use.

Lofty structures such as towers and steeples are usually held to be sufficiently secure if built to withstand the lateral pressure exerted by the strongest gales. A more powerful force, however, is induced by the action of swinging bells, and this force is projected not only laterally, but to a much greater degree vertically, governed by a law of physics but recently comprehended.

To a series of experiments, conducted by E. H. Lewis, M.A., we are indebted for the evolution of an algebraic formula by means of which can be calculated with considerable accuracy the horizontal and vertical reaction of a rigid body revolving around a fixed horizontal axis under the influence of gravity. By applying this formula to the action of a bell weighing six tons, its horizontal thrust is shown to be about thirteen tons, while its vertical force would be no less than twenty-three tons. It may be assumed, therefore, that neither architect nor bell founder would have ventured to jeopardise the integrity of so unique a monument by subjecting it to this prodigious battering strain, had they entertained the slightest doubt as to its absolute safety; and the correctness of their judgment has been confirmed by its subsequent history.

Standing beside one of these ponderous bells, when being rung at a canonical hour, I was able to discern, to my surprise, but slight vibration of the masonry, indicating a stability rarely met with in towers of similar dimensions.

In conclusion, this record of the bells, apart from all other evidence, justifies the assertion that no appreciable structural change has taken place in this edifice since its completion; while the supposition of accidental settlement during the work of construction, always rejected by the local inhabitants, and unsupported either by authentic documents or demonstrable facts, is not only untenable, but indeed lacks even the merit of plausibility. Bell ringers, ever conscious of the possibility of disaster from fragile walls, do not undertake the management of swing bells until assured by the stability of the tower in which they are suspended.

This mute testimony of the bells, therefore, chimes in accord with the opinion of Goodyear, the recognised authority on the asymmetry of mediæval buildings, that the obliquity of Pisa's campanile is one of many examples of intentional avoidance of regularity, a constructive tour-de-force for bizarre, or picturesque, effect, analogous to that conceded in case of the Leaning Tower of Bologna (320 ft.), and more recently shown by him to have been purposely designed also in the Baptistery of Pisa, and in towers of Florence and Ravenna.

The following is a translation of the observations of Magnus above referred to:—

'Certain persons with the view to court popular applause, and at the risk of great worry and possible disaster, have indulged in the caprice of constructing towers not of the regular, perpendicular design, but greatly inclined, threatening even ruin, and apparently on the very verge of tipping over.'

'One of these structures I examined at Pisa, built of marble, circular, and surrounded with columns like the tendrils of a plant. While mounting this campanile one is startled lest it may tumble over and bury him in its ruins.'

'In this connection I must advert to the Tower of the Asinelli at Bologna, remarkable not only as one of this class, but also by reason of its great height, though this edifice was not built for the same use as that of Pisa.'

'There are those, however, who maintain that towers of this anomalous design were not originally constructed in the form now presented; but, nodding, have become deflected and inclined, as the result of damage by earthquake.'

'Such persons, however, are convicted of unpardonable error by the very thresholds and doors; also the sockets at the various floors in which the scaffolding was sustained during the process of construction for these parts are all level, not sloping, and stand true to the spirit level.'

ARTHUR H. NICHOLS.

55, Mount Vernon Street, Boston, U.S.A.

5184 SUPERLATIVE SURPRISE MAJOR.

BY W. HYDE INGLESANT.

	th's th's			
23456	5	& 4	W	H
42356				—
34256				—
56234	x			—
25634				—
62534				—
36524			—	
45623		M.		—
23645	x			—

Twice repeated.

MISCELLANEOUS PERFORMANCES.

PULBOROUGH. — On Sunday, April 6th, for evening service, a quarter-peal of Grandsire Triples: Gnr. P. Knight 1, S. Stone 2, R. Wood 3, J. Burdfield 4, Gnr. Leonard Stilwell 5, P. H. Doick 6, A. Greenfield (conductor) 7, F. J. Killick 8. The ringing was arranged for Gnr. L. Stilwell, who was on a short leave from France.

UPPER CLAPTON.—At St. Matthew's Church, on April 6th, on the occasion of the Jubilee Dedication Festival, a quarter-peal of Grandsire Triples: H. J. King 1, J. Thomas 2, S. S. Dunwell 3, G. B. Lucas, senr., 4, H. J. Cantor 5, C. A. Gray 6, A. Coles 7, S. J. Wilson (first quarter-peal) 8.

CLUN, SHROPSHIRE.—St. George's Society.—On Wednesday, April 9th, a quarter-peal of Grandsire Doubles, with 6, 7, 8 dodging as 'covers': *F. Wolley 1, Rd. Morris 2, Rev. H. J. Scott 3, G. W. Roberts 4, W. Mead (conductor) 5, F. A. Watkins 6, *Second-Lieut. E. E. Griffith 7, *Pte. R. Davies 8. Rung with bells half-muffled as a token of respect to the Rev. V. A. Creswell, who was a valued member of this society. * First quarter-peal. First quarter by W. Mead as conductor.

DEPTFORD, KENT.—At St. John's Church, on Easter Day, 7 a.m. service, a quarter-peal of Grandsire Triples: R. Forsdyke 1, A. G. Bennington 2, E. J. Pannett 3, J. Law 4, F. W. Richardson 5, H. Norgate 6, W. J. Jeffries (conductor) 7, E. B. Crowder 8. — For Matins, a quarter-peal of Grandsire Triples: J. Law 1, E. B. Crowder 2, A. G. Bennington 3, H. Norgate 4, E. J. Pannett 5, F. W. Richardson (conductor) 6, W. J. Jeffries 7, R. Forsdyke 8.—For evensong, a quarter-peal of Grandsire Triples: R. Forsdyke 1, E. J. Pannett 2, H. Norgate 3, E. B. Crowder (conductor) 4, W. J. Jeffries 5, J. Law 6, F. W. Richardson 7, J. Carrott (Northfleet) 8. The above are three different 'quarters,' and are taken from Holt's Original.

CHESHUNT, HERTS. — Hertfordshire Association.—On Easter Sunday morning, a quarter-peal of Grandsire Triples, in 45 mins.: Pte. D. Tucker 1, G. Andrews 2, W. G. Darlington 3, H. Warner 4, Geo. Maxim 5, C. Dilley 6, A. C. Darnell (conductor) 7, R. Smith 8.

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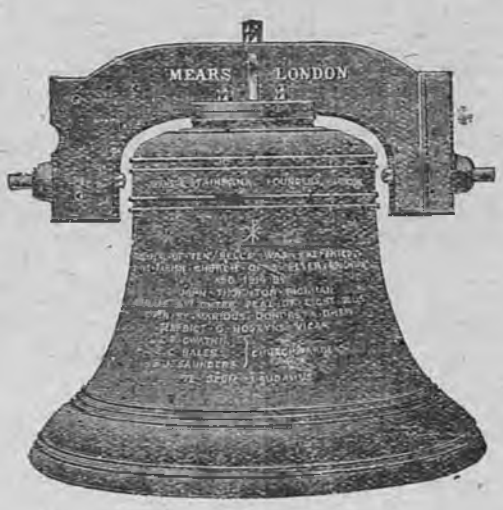

Tenor Bell, 25½ cwt., of the new ring of Ten at St. Peter's, Brighton.

ESTIMATES SUBMITTED

For Rehanging, Retuning and Recasting.

Musical Handbells in sets, Bell Ropes, &c.

At the Handbell Contest held annually in Manchester the First Prize for the last 16 years has been awarded to bands using our bells, and on fourteen of those occasions they have gained the Second Prize also

BELFRY GOSSIP.

Cadet Leonard A. Pye, son of Mr. A. Pye, has been gazetted a temporary Second-Lieutenant in the Royal Regiment of Artillery.

The first post-war turret clock made by Messrs. Gillett and Johnston, of Croydon, was for Yarmouth Parish Church, and it was formally dedicated and opened on Saturday last.

We understand that a marriage has been arranged, and will take place in a few weeks, between Miss Rosina Marion Hellstern, of East Dulwich, and Mr. John J. Jones, of Guildford, the hon. secretary of the Guildford District of the Winchester Guild.

Mr. Arthur T. King, I.S.O., the popular President of the Middlesex County Association, is leaving Portsmouth, where he has been residing for some years. The members of the Association would be delighted if the fates and the house agents could produce within the confines of Middlesex the 'humble cottage,' of which we believe Mr. King is in search.

One of the memorable Easter holiday performances which should have found a place in the list of anniversaries which we gave last week is the record length of Treble Twelve, rung at Ashton-under-Lyne on Easter Monday, April 17th, 1911. Mr. Sam Woods' able company, with Mr. James George on the tenor, brought round the 12,240 in the Kent variation in 3 hrs. 39 mins.

We hear that the work of restoring the peal of eight at All Saints' Church, Hereford, is shortly to be begun.

The restoration, including, we believe, recasting of the ring at St. Peter's, Tunbridge Wells, is in hand. The work is being done by Messrs. Gillett and Johnston, of Croydon.

An officers' peal of Caters is to be attempted shortly at St. Peter's, Croydon.

The Hereford Guild has gained considerably by the settlement in the diocese of Mr. C. Edwards, formerly a very active member of the Winchester Guild. His energy and enthusiasm are unbounded, and the Winchester Guild added numerous towers to its membership through his efforts.

MIDDLESEX ASSOCIATION.

A very successful and interesting meeting of the South-west District was held on Saturday week at Feltham, when about 40 members and friends attended from Isleworth, Aston, Hillingdon, West Ealing, Chertsey, Hersham, Oatlands Park, Sutton, Bournemouth, Harrow, Heston, Camberwell, and Brockley. The ringing, under the direction of the Master, Mr. T. Beadle, was good, and many methods were practised. Tea, kindly arranged by Mr. Denford, and served in the Schoolroom, was greatly enjoyed by all.

At the business meeting eight members were elected, six being from the local tower.

A vote of condolence was passed with the relatives of the late Mr. G. Ransom, of the Isleworth band, and a long and honoured member of the Association.

The meeting concluded by according its thanks to the Vicar for the use of the bells, and to Mr. A. S. F. Denford, and the local band for making such pleasant arrangements.

GLOUCESTER AND BRISTOL ASSOCIATION.

A successful quarterly meeting of the Stroud and District Branch of the Gloucester and Bristol Diocesan Association was held at Minchinhampton, and was attended by 21 members from Stroud, Avening, Painswick, Stonehouse, Bisley, Minchinhampton, and Coaley. Grandsire, Plain Bob and Stedman were rung on the bells during the afternoon, and the Association's form of service was conducted by the Rector (the Rev. F. W. Sears), who, in his address, spoke of the way in which the Diocesan Associations had raised both the standard of the ringer and of change ringing. After the service, the Rector explained the various objects of interest in the church. Tea followed at the Church Club, Mrs. Sears and other kind friends well looking after the ringers at the tea.

A business meeting followed, the Rev. W. J. Clay, Vicar of Bisley (President of the branch) presiding. Frocester was unanimously selected for the next quarterly meeting, and Horsley and Bisley for the monthly meetings.—A hearty vote of thanks was accorded to the Rev. F. W. and Mrs. Sears, and all the friends at Minchinhampton for the excellent address at the service, for the use of the bells, and kind hospitality.—The Rector responded, and gave all a very hearty welcome. He also visited the tower and welcomed the ringers in the belfry. All the members of the excellent local society of ringers were at the meeting.

GET YOUR RINGING FRIENDS TO SUPPORT **THE RINGING WORLD** BY TAKING A COPY EVERY WEEK.

SUSSEX COUNTY ASSOCIATION.

CENTRAL DIVISION AT LEWES.

There were nearly fifty ringers present at the annual meeting of the Central Division of the Sussex Association at Lewes on Easter Monday, and the presence of many old faces—men who were familiar with Sussex ringing five and twenty years ago—made the gathering an interesting one for those whose memory in ringing matters goes back to that time.

There were ringers present from a considerable number of towers in the county, as widely separated as Eastbourne and Pulborough, and among the visitors was Mr. C. F. Johnston, of Croydon. Everything necessary to the comfort of the visitors had been arranged by Mr. C. Errey, the secretary of the local band, whose kindness was much appreciated.

The massive brick-faced tower of St. John the Baptist's Church, Southover, contains a capital peal of ten bells, which were available throughout the day from 11 a.m., and there was much variety in the methods rung, Triples, Major, Caters and Royal being all enjoyed.

A short service was held, conducted by the Rector, the Rev. T. H. Windle, who presided at the harmonium and gave an address, in which he touched upon the history and uses of bells, and the duties and privileges of ringers.

Subsequently, in the Church Room, tea was served, and was followed by the business meeting, at which Mr. J. T. Glandfield, a vice-president of the local Guild, took the chair, and apologised for the absence of the Rector.

Mr. E. A. Andrews, of Ditchling, Messrs. W. and W. W. Watts, of Lindfield, were elected members of the Association, and seven of the Seaford band were re-admitted.

Mr. A. D. Stone who, said one speaker, had been more instrumental than anyone else in keeping the Association going during the war, was re-elected Divisional Hon. Secretary, and Messrs. R. J. Dawe (Seaford), O. Sippetts (Crawley) and R. Stredwick (Brighton) were elected on the Association Committee.

After some discussion it was resolved that each quarterly meeting should arrange the next meeting of the Division, and accordingly Coleman's Hatch was selected as the place for the next gathering, it being announced that Mr. Cyril Johnston, of the Croydon Bell Foundry would entertain the members to tea.

A vote of thanks to the Rector for the use of the bells and for the service and to Mr. Glandfield for presiding, brought the business to a close and the tower was then once more visited.

WESTERN DIVISION.

A very successful meeting of the Western Division was held at Billingshurst, on Saturday, April 12th, members being present from St. Peter's (Brighton), Crawley, Slinfold, Rusper, Lyminster, Angmering, Heene, Shoreham, Warnham, and the local band, and Mr. J. Shepherd of Swindon. Some well-struck touches of Grandsire and Stedman Triples, Oxford Minor, Double Norwich Major, Kent Treble Bob and Superlative Surprise Major were rung during the day, some of the young hands from Rusper taking part, and Mr. Francis T. Hoad is to be congratulated on the way he is getting this band along. The members were very pleased to welcome back from the colours Mr. Oliver Sippetts, of Crawley, and Messrs. J. Burdfield and R. Woods, of Billingshurst. Tea was served at the King's Arms Hotel, where 19 sat down in company with the Rev. R. O. Johns, Vicar of Billingshurst, who presided at the business meeting which followed.

Mr. A. W. Groves was re-elected Hon. Secretary of the Western Division, and Messrs. H. Stalham, G. Norris and R. Bowell were elected to represent the Division on the Association Committee.

A notable feature of the meeting was the number of new members elected and old members re-elected after a period of absence. The new members included Misses Read (daughters of the Rector of St. Leonard's, Aldrington), and Miss E. Elliott, of the same tower; Frank and William Corke, of Rusper; E. Dyson, of Heene. The following old members were again enrolled, viz., Messrs. R. S. Cherryman, A. J. Cherryman, A. W. Cherryman, and Edgar Steele, of St. Leonard's, Aldrington; Messrs. Doick, A. Greenfield, S. Stone, F. J. Killick, of Pulborough; F. Burdfield and Raymond Woods, of Billingshurst. In addition, the Rev. R. O. Johns was elected an hon. member of the Association.

It was decided to hold the next meeting at Lyminster, three months hence.

The Secretary proposed a vote of thanks to the Rev. R. O. Johns for presiding and granting the use of the bells, and this was heartily accorded.—In replying, the reverend gentleman said it gave him great pleasure to welcome the members of the Association to Billingshurst, and to hear the bells ringing again.—Before departing by the last train the members agreed it had been a thoroughly successful meeting, and wished, through the 'Ringing World,' to thank Mr. J. Burdfield, the local captain, for having the bells ready and making the necessary arrangements.

GUILDFORD.—At Holy Trinity Church, on April 9th, for a Confirmation service, a quarter-peal of Grandsire Triples: F. Radford 1, Mrs. Hazelden 2, W. Jelley 3, J. Scott 4, C. N. Burdock 5, Corpl. J. Dearlove 6, C. Hazelden 7, M. Smither 8. Corpl. Dearlove, C.E., is stationed at Witley Camp. He was formerly of Pangbourne, Berks.

MEMORIAL SERVICE AT NEWCASTLE.

DIOCESAN GUILD'S LOSSES.

The memorial service arranged for the fallen ringers of the dioceses of Durham and Newcastle was held at St. John's Church, Newcastle on Saturday week, and although it could not coincide with the national service at St. Clement Danes, it followed closely upon the same lines, and included the reading from Longfellow's 'Golden Legend,' and the hymn written by Mrs. W. Pennington Bickford, wife of the Rector of St. Clement Danes. There was a large attendance of ringers, and the bells were rung muffled for the service. The organ voluntary was Harwood's 'Requiem Æternam,' played by the organist, Mr. H. W. C. Erskine, and the service opened with the National Anthem, and the hymn, 'O God, our help in ages past.' The sentences were read by the Rev. E. Williams, Vicar of Bamburgh, whose church lost no fewer than six of its ringers. Canon Boot, Rural Dean of Newcastle, and the Rev. H. S. Stephenson, Rector of Gateshead, joined with the local clergy in the service. The Rev. Professor Potter, of Armstrong College, and a member of the Newcastle Cathedral Guild read the lesson from the Book of Wisdom iii., and also the Roll of Honour, which included the following names:—

From St. Cuthbert's, Allendale:—Pte. George H. Johnson, Argyle and Sutherland Highlanders.

From St. Aidan's, Bamburgh:—Pte. W. J. Clark, Coldstream Guards; Sapper Albert Hall, R.E.; Pte. Philip Hall, A.I.E.F.; Capt. the Rev. A. T. Laing, 13th N.F.; Pte. T. H. Wake, 7th N.F.; Pte. W. H. Wake, 7th N.F.

From St. James', Benwell:—Pte. Herbert Guthrie, R.M.L.I.

From St. Andrew's, Bishop Auckland:—Drummer J. Peverell, 10th Yorks; Lance-Corpl. Fred Peverell, 9th Yorks.

From Christ Church, Consett:—Lieut. A. G. Shorter, D.L.I.; Lieut. Frank Eales, Rifle Brigade.

From St. Nicholas', Cramlington:—Pte. J. Rissborough, 10th Northumberland Fusiliers.

From St. Oswald's, Durham:—Coy. Sergt.-Major W. Forrest, 18th D.L.I.

From All Saints', Gosforth:—Lieut. Robert W. Falconer, 16th N.F.

From St. George's, Jesmond:—Corpl. Reginald Eaton, East Yorks; Pte. Albert Errington, 4th Cheshires; Scout Ernest R. Mundle, 1st Canadian Contingent, 2nd Infantry Brigade.

From St. Mary's, Lanchester:—Pte. Thomas Henry Smith, 1st London Scottish.

From the Abbey, Hexham:—Pte. William Summers, Scottish Rifles.

From the Watch Tower, Morpeth:—Sergt. S. A. Wright, 2nd Scots Guards; Pte. J. Brown, 78th Infantry Battn., Canadians.

From Christ Church, North Shields:—Second-Lieut. Robert M. Hogg, N.F.; Pte. J. T. Hogg, Middlesex Regt.; Pte. George R. Potter, 6th Lancs Fusiliers.

From All Saints', Rothbury: Capt. Thomas Murray, Cheshire Regt.

From Holy Trinity, Sunderland:—Lieut. Cyril O. Sayer, 7th D.L.I.; Rifleman William McLachlan, 16th King's Royal Rifle Corps.

From St. Aidan's, West Hartlepool:—Lance-Corpl. William Gilmore, R.E.

From All Saints', Stranton, West Hartlepool:—Bomb. J. W. Jobling, 265th Siege Battery, R.G.A.; Carpenter F. Macarthy, H.M. Auxiliary Ship Iolaire; Pte. W. B. Webster, 9th Cheshires.

From St. Oswin's, Wylam-on-Tyne:—Pte. J. F. Appleby, N.F.; Pte. W. Wrightson, K.O.Y.L.I.

The special prayer for fallen ringers was said, and while the congregation remained kneeling, the whole pull and stand was rung seven times by members of St. John's Guild.

The Vicar of St. John's (the Rev. A. E. Cornibere) was the preacher and the offertory, for St. Dunstan's Hostel for Blinded Sailors and Soldiers, amounted to £7.

The impressive service concluded with 'The Last Post,' sounded by buglers of the 5th Battalion Worcestershire Regiment, and the 'Dead March in Saul.' The voluntary was a course of Grandsire Caters on handbells, by Messrs. C. L. Routledge 1—2, J. A. Gofton 3—4, W. H. Barber 5—6, A. Hessian 7—8, J. E. Keen 9—10.

As the congregation left the church, the 'whole pull and stand' was again rung, and in the evening there was half-muffled ringing at St. John's, All Saints', and the Cathedral, Newcastle, and St. Mary's Gateshead.

THE LATE CAPTAIN MURRAY.

At St. Mary's, Liscard, on March 15th, a quarter-peal of Bob Major (1334 changes) was rung in one hour by: W. A. Woosnam 1, A. Woosnam 2, H. Ludkin (conductor) 3, W. Hughes 4, H. Rogers 5, Spr. E. Brooks 6, H. Williams 7, S. Moston 8. The bells were half-muffled as a token of respect to the memory of the late Capt. Thomas Murray, 11th Cheshire Regt., who was killed about two years ago in France. Captain Murray enlisted in the ranks in the early days of the war, and won rapid promotion. The above was the first quarter-peal in the method by the ringers of 1, 2, 4, 5 and 7.

GILLETT & JOHNSTON,

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Pre-War Manufacture of

Tower Clocks and Carillon Machines

For Cathedrals, Churches,
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Buildings, in addition to
the Founding and Hanging
of

CHURCH BELLS.

APRIL, 1919.

CROYDON, SURREY.

MISCELLANEOUS PERFORMANCES.

We very much regret that many touches which have been sent in for publication under this heading during the past few months have had to be omitted, on account of the limited space at our disposal. We hope in future to be able to give some few touches, but those of special interest will have preference. Other miscellaneous items sent for publication should not be less than 720 on six bells or quarter-peals on higher numbers.

OXTON, BIRKENHEAD. — On Sunday, January 12th, at St. Saviour's, Oxton, a quarter-peal of Grandsire Triples (1260 changes), from Holt's Original: J. Owens 1, W. Battle 2, H. Brocklebank 3, R. Birchall 4, W. Hughes 5, J. Evans 6, S. F. Barnes (conductor) 7, H. Martin 8.

GLODWICK, OLDHAM.—At St. Mark's Church, on Sunday morning, January 20th, 518 Grandsire Triples: E. Geary 1, J. Schofield 2, A. Fielding 3, W. Clegg, H.M.S., 4, J. Taylor 5, J. Lees 6, A. Clegg (conductor) 7, Pte. J. T. Clegg, R.A.M.C., 8. Pte. Clegg was on leave.

BARKING, ESSEX.—On Sunday evening, January 26th, a quarter-peal of Stedman Triples (1260 changes) was rung in 45 mins.: E. Hall 1, J. Waghorn, senr., 2, A. Worboys 3, T. Faulkner 4, F. C. Newman 5, A. C. Hardy 6, C. Fenn (conductor) 7, R. Fenn 8. Rung on the occasion of the 76th birthday of Mr. Waghorn, senr.

FINEDON, NORTHANTS.—On Sunday, January 26th, for evening service, a quarter peal of Stedman Triples (1260 changes) in 47 mins.: P. Manning 1, T. Abbott 2, H. Tompkins 3, G. Ette 4, H. Ette 5, J. R. Main 6, G. Basford (conductor) 7, C. F. Warren 8. Specially arranged for C. F. Warren, of Birmingham.

ABERAVON, S. WALES.—At St. Mary's Church, on Sunday, Jan. 26th, for evening service, on the occasion of a visit by the Rev. D. H. Griffiths, of St. Woolos, Newport, at one time of Aberavon. A quarter-peal of Grandsire Triples was rung by the following: F. Stone 1, A. Perry 2, C. Frankcom 3, E. Stitch 4, W. Nurton 5, F. Stedman 6, A. Pitman (composer and conductor) 7, J. Wethersby 8.

LONDON.—London County Association.—On Feb. 16th, for evening service, at St. Mary's, Rotherhithe, S.E., a quarter-peal of Grandsire Triples: G. Harman (first quarter-peal away from tenor) 1, T. H. Taffender (conductor) 2, C. Stephenson 3, A. Gasson 4, H. C. Alford 5, C. Burden 6, W. Berry 7, T. Cooledge 8.—On Feb. 23rd, for evening service, at All Hallows', Great Tower Street, 1280 Kent Treble Bob Major: A. Diserens 1, T. H. Taffender (conductor) 2, F. W. Brinklow 3, E. F. Pike 4, J. Cornford 5, J. Scholes 6, H. Torble 7, R. Sanders 8.

LONDON.—Ancient Society of College Youths.—On March 9th, for evening service, at St. Dunstan's, Stepney, E., a quarter-peal of Stedman Triples: E. G. Fenn 1, T. H. Taffender (cond.) 2, H. Torble 3, E. Pike 4, J. Scholes 5, R. Sanders 6, E. Hall 7, G. Barrel 8.

NOTTINGHAM. — At St. Peter's Church, for evening service, on March 9th, a quarter-peal of Grandsire Triples, in 47 mins.: C. F. Vickers 1, F. Blood (first quarter-peal since demobilisation) 2, E. Hughes 3, T. H. Kirkby 4, J. W. Sevier 5, G. H. Johnson 6, A. Barrett (conductor) 7, E. Wallace 8.—For morning service, on March 16th 518 Grandsire Triples (from Holt's peal): Mrs. M. E. Lee 1, F. Blood 2, E. Hughes 3, T. H. Kirkby 4, W. J. Sevier (conductor) 5, A. Barrett 6, E. Wallace 7, W. Flinders 8.—For evening service, 504 Grandsire Triples: W. J. Sevier 1, R. Clifford (conductor) 2, E. Hughes 3, F. Price (Beeston) 4, T. H. Kirkby 5, C. F. Vickers 6, F. Blood 7, E. Wallace 8.

CARDIFF.—On Sunday, March 16th, for evening service, a quarter-peal of Grandsire Caters (1259 changes), in 55 mins.: H. Day 1, J. Harris 2, C. Hobbs 3, S. Dawe 4, W. Coombes 5, F. Edwards (first quarter of Grandsire Caters) 6, F. Viles 7, A. Rowley 8, W. Bolton (conductor) 9, S. R. Barker 10.

DEPTFORD, KENT.—At St. John's Church, on Sunday, March 16th, for evensong, a quarter-peal of Stedman Triples, in 42 mins.: F. W. Richardson 1, E. J. Pannett 2, T. Easterby 3, A. E. Goddard 4, A. G. Bennington 5, H. Belcher (Wolverhapmton) 6, W. J. Jeffries (conductor) 7, J. Law 8.

PETERBOROUGH. — On March 16th, for morning service, a quarter-peal of Grandsire Triples, in 46 mins.: H. Coles 1, F. Daintv 2, W. G. Cross 3, Pte. A. W. Hart, Queen's Regt. (St. Mary Magdalen's, Holloway), 4, F. Davis 5, Corpl. H. Beechey, M.T., A.S.C., 2, F. G. Cooke (conductor) 7, F. Rowlinson 8. For evening service, a quarter-peal in the same method, in 46 mins.: V. Butler 1, T. Vaughan 2, A. W. Hart 3, S. Wright 4, H. Beechey 5, W. Jarvis 6, F. G. Cook 7, T. Howling 8. Rung as a farewell to A. W. Hart, who was returning to London for demobilisation.

SOLIHULL, WARWICKSHIRE.—On Sunday, April 6th, at Malvern Villas, New Road, in 37 mins., a quarter-peal of Grandsire Triples (1260 changes): C. Bragg 1—2, H. Bragg 3—4, E. C. Shepherd (composer and conductor) 5—6, D. Matkin 7—8. Rung as a farewell touch to D. Matkin, who was leaving Solihull. The above is an entirely self-taught band.

STANFORD-ON-SOAR, NOTTS.—On Sunday afternoon, April 6th, a quarter-peal of Grandsire Triples: C. Marriott (first quarter-peal) 1, J. Pagett (conductor) 2, W. Thorley 3, H. Whittle 4, G. Tomlinson 5, J. Lord 6, W. Trigg 7, J. Hunt 8. Messrs. Pagett, Lord, Tomlinson and Hunt belong to Derby.

NOTICES.

The EDITORIAL OFFICE of the 'RINGING WORLD,' to which all communications should be sent, is 9, COMMERCIAL ROAD, WOKING.

'The Ringing World' can be obtained by placing an order with a Newsagent, or it will be sent direct from the Editorial Office post free for 2/6 per quarter, 10/- per year.

LEEDS AND DISTRICT SOCIETY.—The annual meeting of this society will be held at Far Headingly on Saturday, April 26th. By kind permission of the Vicar (the Rev. C. C. Marshall) the bells of St Chad's will be available for ringing from 3 p.m. until 9 p.m. Committee meeting in the Parochial Hall at 6 p.m., and the annual business meeting at 7.30 p.m.—Wm. Gage, Hon. Sec., 7, Burley Terrace, Burley Road.

LONDON COUNTY ASSOCIATION.—Late the St. James' Society.—Estab. 1824.—A meeting for practice will take place on Saturday, April 26th, at Southwark Cathedral at 4 p.m. There will be half an hour interval for tea. A business meeting will be held at 8 o'clock at the 'Southwark Tavern' (close by). Ringers and friends welcome. —T. Walker, Hon. Sec., 50, Cannon Street, E.C.

WINCHESTER DIOCESAN GUILD.—Basingstoke District Branch.—A meeting will be held at Overton on Saturday, 26th inst. Tower open at 2.30; service at 4.30; tea at 5.15, followed by business meeting. Ringing again afterwards.—Charles D. P. Davies, Hon. District Sec., Deane Rectory, Overton.

LANCASHIRE ASSOCIATION.—Manchester Branch. —The next meeting will be held jointly with the Ashton-under-Lyne Society (annual) on Saturday, April 26th, at St. Michael's Church. Bells (12) available from 3.30; meeting at 7.—W. Wolstencroft and C. Bower, Secs.

WINCHESTER DIOCESAN GUILD.—Portsmouth District.—A quarterly meeting will be held at Shedfield on Saturday, April 26th. Bells available 2 p.m.—E. J. Harding, District Sec.

WARWICKSHIRE GUILD.—The next quarterly meeting will be held at Rugby on Saturday, April 26th. Bells (8) available from 3 o'clock; service at 5 o'clock. Business meeting after tea. — Joseph H. White, Hon. Sec., 59, George Eliot Road, Coventry.

SOCIETY FOR THE ARCHDEACONRY OF STAFFORD.—A meeting will be held at Bloxwich on Saturday, April 26th. Bells available at 3; Service in church at 5.15, with an address by the Rev. J. C. Hamilton, M.A.; tea (1/-) in the Schoolroom at 6.—H. Knight, Hon. Sec., 15, Rugby Street, Wolverhampton.

LANCASHIRE ASSOCIATION.—Bolton Branch.— The next meeting will be held at Tyldesley Parish Church on Saturday, April 26th. Bells available 3.30 p.m.; meeting at 7 p.m.—Peter Crook, Branch Sec., 7, Melrose Avenue, Bolton.

LADIES GUILD.—A meeting will be held at Fulmer on Saturday, April 26th. Ringing from 3 o'clock; short service at 5.30; tea at 6.15.—E. K. Parker, Hon. Sec., 40, Rockmount Road, Upper Norwood, S.E.19.

MIDDLESEX COUNTY ASSOCIATION AND LONDON DIOCESAN GUILD.—The annual general meeting will be held at Barnet (by kind permission of the Rector),

on Saturday, April 26th, 1919. Short service at 6 p.m., followed by tea and the business meeting. The following towers will be open for ringing: Barnet (8) and Hadley (6) from 3 p.m., Southgate (8) from 3 to 5 p.m. Trains from New Southgate to Barnet. A cordial invitation is given to ringers to be present.—W. H. Oram, Hon. Sec., 25, Crown Street, Harrow.

GLOUCESTER AND BRISTOL ASSOCIATION.—The next meeting of the Wotton-under-Edge branch will be held at Chipping Sodbury on Saturday, April 26th. The bells will be available from 3.30 p.m.; short service at 4.30; tea at 5, business meeting to follow.—W. A. Lewis, Branch Hon. Sec., Ham, Berkeley, Glos.

ANCIENT SOCIETY OF COLLEGE YOUTHS.—Established 1637.—Meetings will be held at Southwark Cathedral on April 29th, and May 27th, at St. Magnus, Lower Thames Street, on May 1st, 15th and 29th, at *St. Giles', Cripplegate, on May 6th, and *St. Paul's Cathedral on May 20th, all at 7.30 p.m. *Business meeting afterwards at 'The Coffee Pot,' Warwick Lane, E.C.—William T. Cockerill, Hon. Sec., 32, Edgeley Rd., Clapham, S.W.4.

BATH AND WELLS DIOCESAN ASSOCIATION.—Chew Deanery Branch.—A quarterly meeting will be held at Wraxall on Saturday, May 3rd. Bells available 3 o'clock. Divine service 4.30; tea and business meeting 5.30. Those who require tea please notify by Tuesday, April 29th.—George Yeo, Hon. Sec., Long Ashton.

MIDLAND COUNTIES ASSOCIATION.—Nottingham District.—A meeting will be held at Beeston Parish Church on Saturday, May 3rd. Bells available from 3 to 8 p.m. All ringers welcome.—T. H. Kirkby, Hon. District Sec., 7, Selkirk Street, Carrington.

KENT COUNTY ASSOCIATION.—Maidstone District.—At West Malling, on Saturday, May 3rd, the annual district meeting will be held. Bells ready at 3 o'clock; service at 5; tea 5.45; business meeting after. All ringers welcome. The Secretary would be glad if members intending to be present will let him know not later than Tuesday previous to the meeting. — Stephen Hayzelden, Lower Street, East Farleigh, Maidstone.

KENT COUNTY ASSOCIATION.—Lewisham District.—The next quarterly meeting will be held at St. Mary, Lewisham, on Saturday, May 3rd. Tower open at 3 p.m. Service 5.30 p.m. Tea and business meeting to follow. The Vicar has kindly promised to provide tea in the Vicarage garden if fine, in the Institute if wet, and I trust all who hope to be present will notify me not later than Tuesday, April 29th.—T. Groombridge, Hon. District Sec., 35, Albany Road, Chislehurst.

CHESTER DIOCESAN GUILD.—Stockport Branch.—A memorial service for those members of the branch who have fallen in the war will (D.V.) be held at St. Mary's Church, Stockport, on Saturday, May 3rd, at 5 o'clock. The Rev. F. A. Screeton, M.A., Vicar of Norbury, will preach the sermon. Members are especially requested to make an effort to be present and join in this tribute of respect and gratitude.—Rev. A. T. Beeston, Hon. Sec., New Mills.

BATH AND WELLS DIOCESAN ASSOCIATION.—Frome and Midsomer Norton Deanery Branch.—The annual meeting will take place at Shepton Mallet on Saturday, May 3rd. Service at 4 p.m.; tea and business at 5. Bells (8) available from 2 p.m. All ringers, whether members or not, will be heartily welcome.—I. B. Holmyard, Hon. Sec., School House, Midsomer Norton, Bath.

ESSEX ASSOCIATION.—South-Western Division.—A district meeting will be held at Barking on Saturday May 3rd. Bells available from 3.30 p.m.; business meeting in the Tower 5.30 p.m. All ringers welcomed.—E. Butler, Hon. District Sec., 3, Eustace Road, Chadwell Heath.

LADIES' GUILD.—Midland District.—The half-yearly business meeting of the above will be held at St. Nicholas' Church, King's Norton, on Saturday, May 3rd. Bells (8) available at 3.30; Service in church at 4.30; tea at 5.15 for those who notify me not later than Wednesday, April 30th, free to members, others 1/- each; this will be followed by the business meeting. Gentlemen welcomed.—S. Pigott, 41, Cemetery Road, Smethwick.

WINCHESTER DIOCESAN GUILD.—Guildford District.—The next District meeting will be held at Witley on Saturday, May 3rd. Bells (8) available from 3 o'clock; Service at 5; tea to follow. Subscriptions should be paid at this meeting.—John J. Jones, Hon. Sec., 3, Bridge Street, Guildford.

YORKSHIRE ASSOCIATION.—Eastern District.—The next meeting of the above District will be held at Sutton-on-Hull on Saturday, May 10th. By kind permission of the Vicar, the bells (6) of St. James' will be available all day. Address by the Rev. G. A. Coleman at 4 p.m.; tea at 5, business immediately after. Tea will be provided for those only who notify Mr. A. E. West, Holly Bank, Sutton-near-Hull, not later than Wednesday, April 30th, at 6d. per head. Sutton is easy of access, about four miles from Hull. It is the wish of the vice-president that this meeting should be a success as it is a long-standing invitation.—W. Hinton, Hon. District Sec., 5, Volta Street, Selby.

ESSEX ASSOCIATION.—North-Eastern Division.—The quarterly meeting will be held at Braintree on May 10th. Bells available from 2 p.m. Service, with address, 4.30; tea will be provided by kind invitation of the Master of the Essex Association and the Vicar of Braintree, to all who send me notice of their intention of being present not later than May 6th. Subscriptions for 1919 are now due.—B. Redgwell, District Sec., Rayne.

OXFORD DIOCESAN GUILD.—A general committee meeting will be held at Reading at the Great Western Railway Temperance Union Institute on Saturday, May 10th, at 3 o'clock, to arrange for Annual Festival and general business. Notices of motion (as per amended Rule XXI) should reach Secretary at least ten days before meeting. A good attendance is required. It is hoped and expected that the Master will be in the chair. The Temperance Institute is adjoining the G.W.R. Station, turn to right on coming out of station.—R. T. Hibbert, Sec., Warren House Lodge, St. Peter's Avenue, Caversham.

SUSSEX COUNTY ASSOCIATION.—The annual meeting will be held at Brighton on May 10th. Business meeting at 3.30 in Parish Room; tea at Gloucester Hotel 4.45, 3/- each (1/6 to members); Service at St Nicholas' Church at 6. Ringing: St. Peter's Tower 1.30 to 3.30, St. Nicholas after the service. Members who will be present for tea let me know by May 7th. Half railway fares without limit.—H. R. Butcher, General Hon. Sec.

CHANGE OF ADDRESS.—Mr. C. Edwards, late of Swaffham, Norfolk, and Farnham, Surrey, has removed to Gt. Brampton, Madley, Hereford.

SOCIETY OF ROYAL CUMBERLAND YOUTHS.—Meetings for practice: St. Martin's first Monday in the month at 7.30 p.m.; second Saturday, St. Bride's, 5 p.m.; third Monday, Shoreditch, 7.30 p.m.—H. J. Bradley, Hon. Sec.

PEAL BOOKS.—Price 3s., post free 3/6. Peals written in at 3d. per page. Prices for entering peals in Association official peal books upon application.—J. Beams, West Ewell, Epsom.

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I have again to thank the secretaries of associations and members for the tangible manner in which they have responded to the above testimonial.

The date for returning the lists has now expired, and to enable me to bring this successful and interesting scheme to a close, I shall be glad if those who still have lists and amounts in hand will kindly forword these to me with as little delay as possible.

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