

CAMPANOLOGY

There are three main types of bell installations:—

- (1) **Ringin Peals** of up to twelve bells. When rung by means of ropes and wheels each bell swings a full circle to and fro, the bell being stuck once at the end of each swing by the central clapper (or tongue).
- (2) **Carillons**, i.e. groups of 25 or more bells fixed rigidly and played from a keyboard by one person.
- (3) **Chimes of Bells**, i.e. smaller groups of bells than Carillons but with simpler mechanisms, enabling them to be played by one person or mechanically.

The basic differences between a chime of bells and a ringin peal are:—

When a set of bells is chimed the bells do not move but are struck by hammers operated by cords which pass over pulleys to the operating device (or clavier) in a room below the bells. It is not necessary for the operator to be able to read music since tunes can be written out in numbers instead of notes.

Although sweet and attractive because of the well-known simple melodies played, the range of sound of a chime is limited and the full beauty of the tone of the bells is not brought out.

In contrast, the sound of bells rung in full peal carries for miles and the full beauty of the tone of the bells is fully brought out. In a well-designed tower this can be done without the bells being excessively loud in the immediate vicinity. It is not possible to "ring" tunes on a ringin peal because of the time of the swing of the bells. The art and science of ringin changes has therefore been developed.

A ringin peal requires one person for each bell, to control the movement of the rope by means of which the huge wheel to which it is connected is made to swing the bell.

By the addition of extra apparatus, a ringin peal may also be used as a chime and the bells of Inveraray have this property. Accordingly, they may be chimed gently to pleasant melodies or be rung in full peal by ten ringers, sending out a cascade of glorious sound over loch and glen.

It is quite commonplace for ringers to ring more than 5,000 changes non-stop. On Inveraray Bells these "True and Complete Peals" take almost four hours to ring.

Change ringin is practised only in the British Isles, a few parts of the Commonwealth and U.S.A. Elsewhere, especially on the Continent, carillons and chimes are more common.

BELL NOTES AND WEIGHTS

1.	E	6cwt	0qr	14lb	(311kg)
2.	D	6cwt	1qr	26lb	(330kg)
3.	C	7cwt	1qr	6lb	(372kg)
4.	B	8cwt	2qr	2lb	(433kg)
5.	A	10cwt	1qr	5lb	(524kg)
6.	G	13cwt	0qr	8lb	(666kg)
7.	F	17cwt	0qr	22lb	(875kg)
8.	E	20cwt	1qr	21lb	(1040kg)
9.	D	28cwt	3qr	0lb	(1464kg)
10.	C	41cwt	2qr	8lb	(2116kg)

The Bell Tower EXECUTIVE COUNCIL

President: The Episcopalian Bishop of Argyll
and the Isles

Chairman: Lady Glenkinglas

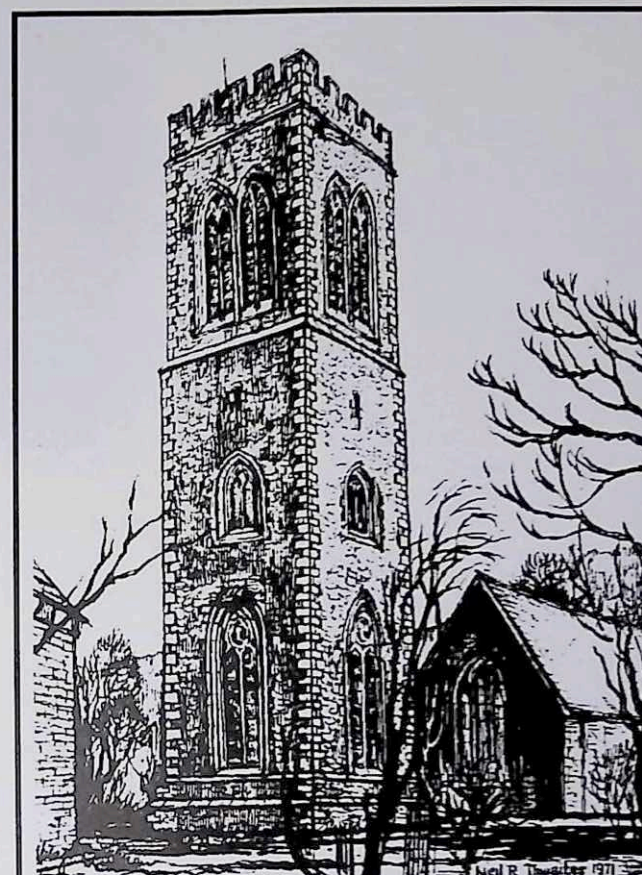
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Priest in Charge Of All Saints Episcopal Church,
Inveraray.

The Minister of the Parish Church, Inveraray.
The Parish Priest of St. Margaret's R.C. Lochgilthead.

The Duke of Argyll. Mrs Rose Hancock.
The Factor of Argyll Estates. The Hon. Lady Maclean.
Mrs Patricia Wiseman. Mrs E. McLachlan.

Robert J. Hancock
Secy. of the Scottish Association of Change Ringers



THE TOWER AND BELLS OF ALL SAINTS' EPISCOPAL CHURCH Inveraray, Argyll

THE HISTORY

The Episcopal Church of All Saints, Inveraray, was built in 1886 for Amelia, the second wife of the 8th Duke of Argyll. The Duke was Presbyterian but respected his wife's faith. Thus began the understanding that led to the 8th Duke giving Iona Abbey to the Church of Scotland. The Abbey is now being used as an interdenominational community.

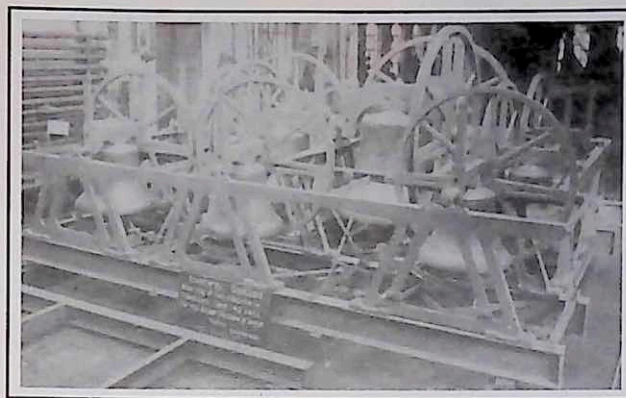
On the mainland the Churches founded by the Celtic Saints to whom the bells are severally dedicated, have in some cases been succeeded by existing Presbyterian parishes. In Inveraray, Roman Catholics are now holding services in All Saints' Church to which the bells belong. The tower with its bells may thus be thought of as a united Christian offering of praise and worship to God. The Bell Tower was planned by Niall Diarmid, 10th Duke of Argyll in 1914 as a war memorial but building progress was slow due to lack of funds — indeed the tower is unfinished to this day and has never been joined to the church as was originally planned. It was struck by lightning in 1944.

The Bells were originally hung in the small Bell House beside the Church where they were played from a keyboard. In 1931 the tower was sufficiently completed for the ring of ten bells to be hung in their present position. The 126ft. tower is exceptionally well designed to bring out the wonderful tones of the bells which are a joy to campanologists who consider them one of the finest rings of bells ever cast.

Enter the tower by its new door. You are in the ground floor chamber. The large west window, now restored, was badly damaged by lightning. On the wall is mounted the chiming apparatus. One person can "chime" the bells but ten people are needed to "ring" them in full peal with the ropes. Climb the circular stair in the narrow side turret to reach the ringing chamber, which is of graceful proportions.

Above, on the second floor, is the "silence chamber," necessary to moderate the sound in the ringing chamber. Finally, the great bell chamber is reached and the ten bells can be seen from the Viewing Gallery. The seven huge louvre windows of freestone tracery have been partially lined with brickwork and wooden shutters for sound and weather control.

From the roof of the Tower there is a magnificent view over the parishes established in the early days of Christianity by the Saints to whom the bells are dedicated.



THE GREAT RING OF BELLS INSCRIPTIONS WITH TRANSLATIONS

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| No.1 | SANCTE MALUAG ORA PRO NOBIS
Pray for us Saint Maluag |
| No.2 | SANCTE COLUMBA ORA PRO NOBIS
Pray for us Saint Columba |
| No.3 | MUNDI PRO MERITIS MEREAMUR GAUDIA COELI
By the grace won by St. Mundus, May we earn the joys of Heaven |
| No.4 | TERRAE VELIFICATE VIAS BRENDANE BEATAE
TU NOBIS PARTIER PANDE SECUNDUS ITER
O Brendan who didst sail the land of the Blest
Do thou, by thy favour, to us also open, the pathway |
| No.5 | PRO NOSTRIS ORES: QUOTIES DABO PULSA SONORES
TE COLO TUQUE MEUM SANCTE MAELRUBHA DEUM
Pray for our people Saint Maelrubha whenever I am struck and ring
I give you worship and you also worship my God |
| No.6 | SANCTE BLAANE ORA PRO NOBIS
Pray for us Saint Blaane |
| No.7 | SANCTE MARIA MARIS SUCCURRE PISSIMA NOBIS
Most Blessed Mary, Star of the Sea, hasten to our aid. |
| No.8 | SANCTE MURDOUCHE ORA PRO NOBIS
Pray for us Saint Murdouche |
| No.9 | SANCTE BRIGIDA ORA PRO NOBIS
Pray for us Saint Brigida |
| No.10 | FERT LUCEM PRAE SE FERT ARDOREMQUE MOLAISE
FLAMMA VELUS VENTO VOTIS ARDERE MEMENTO
VOTIS ARDE IGNIS PRO NOBIS SANCTE BENIGNIS
Light and Fire Saint Molaise bears as his banner.
Remember to blaze with prayers as the flame blazes in the wind.
O Holy Fire blaze with kindly prayers for us. |

THE BELL TOWER

The ringing peal of ten bells at Inveraray was cast in 1920 by John Taylor and Company of Loughborough, a firm established in 1780 and now one of the two remaining bell founders in Britain. The total weight of the bells, whose notes are in the diatonic scale, is nearly 8 tons. Approximately 4/5ths of this weight is copper and the rest tin. The tenor bell weights 2116 kgs, the other nine bells progressively less as their pitch rises. They are the second heaviest ring of ten bells in the world, the heaviest bells being at Wells Cathedral.

The bells are inscribed in Latin in Lombardic characters (see opposite page). The Gaelic Saints referred to belonged to the age of St. Columba and all had their own churches in the area at that time. Some of these parishes bear the same names today.

Since 1970 the following work has been done:—

- (1) Installation of electricity.
- (2) De-rusting and painting the bell frame.
- (3) Sound, weather and bird control measures.
- (4) Making the tower accessible to visitors.
- (5) Three sets of new bell ropes.
- (6) Repair or replacement of windows.
- (7) Repairs to the ringing and chiming fittings and apparatus.
- (8) New entrance with vestibule doorway and Gothic style window.
- (9) New floor and window in the ringing chamber.
- (10) Repairs to masonry damaged by lightning in 1944.
- (11) Making a Garden of Friendship in the grounds.
- (12) New lead roof and walkway for visitors.
- (13) Complete re-pointing of the Tower.
- (14) Viewing Gallery in the Bell Chamber.

It costs £5000 per year to maintain the Tower and Bells and keep them open to the public.

THE AIMS OF THE COUNCIL

- (1) To assist the Vestry of All Saints' Church, Inveraray, in the upkeep of the bells, tower and grounds.
- (2) To foster the art of campanology.
- (3) To create an Interdenominational Friendship to the Glory of God.

Registered as a Charity

Please support the work of the Council by visiting the Bell Tower or giving a donation.