<u>Ringing ZOOM Saturday 11th April 2020, 11am Seattle time. Coursing orders</u> *** SEE PATRICK'S NOTES ON THE THEORY LESSON, now attached to end of this doc.

On call:

Rebecca, Ander, Amy, TJ, Carol, Madeline, Eve, Faith, Tristan, Anna, David O, Lizzie, Melissa, Patrick, Ted, Marilyn, +

Ringing Room : <u>https://ringingroom.com/721659348/eseattle</u> (already this is updated from when we used it!)



We learnt that:

We can do plain hunt on this .. and almost plain bob when we consider is as handbells:

Review the handbell notes at our ringing resources http://depts.washington.edu/uwcbells/RingingResources/Handbells/ ... for hints on what to learn to ring handbells

Part2: Ander on Coursing Orders and how bobs change it.

I missed this ... so am reconstructing from the little I got when I came back.

We have the plain bob 8 coursing order as 7 5 3 2 4 6 8

Consider the calls that always keep the tenor (78) together

(Why do you want to keep the tenors together? Tradition? Cos it sounds nicer?)

These are: WRONG, BEFORE, MIDDLE and HOME

(W,M and H are obvious .. the tenors are above 4ths in those)

(B ... the tenors cross in 2/3, so stay in the same relation - though only for a bob)



As we are keeping the tenors together, look at the coursing order with them at the end, viz:

5 3 2 4 6 8 7 ... and leave off the 8 7 as we are going to keep them together .. and thus we get 5 3 2 4 6

Now consider what happens at a bob at each of the positions.

(HOW? -Find the position in the chart above,

- consider how the bells move if the lead end was a bob, rather than a plain,

- from that new position, recompute the coursing order)

And what you find is:

A Bob at WRONG	from: 5 3246 **** the first 3 are affected, and the coursing order becomes 32 5 46 i.e., the 1 st bell of the 3 jumps over the other two.
Instead a Bob at HOME	from: 5 <mark>3 2 4</mark> 6 **** the second 3 are affected, the coursing order becomes 5 2 4 <mark>3</mark> 6 again, the 1 st bell of the 3 jumps over the other two.
Instead a Bob at MIDDLE Note it is always the bell makir	from: 53246 **** the third 3 are affected, the coursing order becomes 53462 again, the 1 st bell of the 3 jumps over the other two. g the bob that jumps.

Finally a Bob at **BEFORE**from: 5 3 2 4 6 (8 7)Bit trickier .. 6 will make the Bob, and jump back in the coursing order (over the 8 and 7), so you get6 5 3 2 4 . again the bell making the bob jumps, now to the front.

SO, in summary, a BOB makes the bell making the Bob jump back two places in the Coursing order.

What about a single?

The bell making the sin And the bell making sec	from: 5 3 2 4 6 **** the first 3 are affected, and the coursing order becomes 2 3 5 4 6 i.e., the first swaps with the 3 rd . s jumped back two but the others swap also gle (i.e., 3rds) moves FORWARD in the coursing order conds (as it would have at a plain lead), remains fixed relative to the ells not involved in the call.
Instead a Single at HOME	from: 5 3 2 4 6 **** the second 3 are affected, the coursing order becomes 5 4 2 3 6 again, the 1 st and 3 rd bells swap
Instead a Single at MIDDLE	from: 53 246 **** the third 3 are affected, the coursing order becomes 53 6 4 2 again, the 1 st and 3 rd bells swap
Finally a Single at BEFORE WILL SWAP THE TENORS	from: 5 3 2 4 <mark>6</mark> (8 7) to: 5 3 2 4 7 8 6

SO, in summary,

Consider - 3 homes

- WHEN you make the call, tells you which 3 bells will be affected

- a BOB makes the bell making the Bob jump back two places in the Coursing order.

- a SINGLE swaps two bells in the Coursing order

the bell making 4ths jumps back,

- the bell making 3rds jumps back.

So now we can see why some touches come round.

Consider - 5 nomes.	
Starting CO	5 <mark>3 2 4</mark> 6
After 1 st Home	5 <mark>2 4 3</mark> 6
After 2 nd Home	5 <mark>4 3 2</mark> 6
After 3 rd Home	5 <mark>3 2 4</mark> 6 which is back in the home course (i.e., original coursing order)
Consider - W H W H	
Starting CO	<mark>5 3 2</mark> 4 6
W affects 1 st 3	3 <mark>2 5 4</mark> 6
H affects 2 nd 3	<mark>3 5 4</mark> 2 6
W affects 1 st 3	5 <mark>4 3 2</mark> 6 note this lovely coursing order
H affects 2 nd 3	5 3 2 4 6 which is back in the home course (i.e., original coursing order)

What about 3 wrongs? ... or 3 Middles? .. they will all come around also.

What about 3 befores? ... ah, now we see that won't come round, we need 5 befores to come around ... AND those 5 calls will be in consecutive leads .. (which is a bob course) ... and so we then KNOW the touch will be false ... cos to ring a bob course, you call a bob every lead from the start of the touch, not from half way through. What it also tells us is that coursing order alone cannot tell you if a touch is false ... you also need to know about the leads of the course you have rung.

How is this written out? Like this:

The columns are the calling places (given in the order they turn up) The dash - shows you call a bob there.

The numbers in the first column are the lead end order after you have done all the calls in that line.

We will come back to this.

So, how to call this?

- ring the tenor and call the touch as for the tenor (i.e., call yourself, for this touch, Wrong and Home, repeated once).

- ring any bell, and call the touch for yourself as Wrong Home repeated once ... this may not have such nice music

- ring any bell, work out what WHWH for the tenor means for YOU ... and then use that to ring it. So, if you were the 7:

At the wrong, you are dodging 56 up, and the home, you are dodging 78 up.

If you were the 5:

At first wrong, you MAKE 4ths At the first home, you run OUT At the second wrong, you run OUT again At the final Home, you re dodging 56 up.

FINAL note:

- as we discussed last time, the lead ends for Cambridge are the same as for Plain Bob (but in a different order) and thus, WHWH will still work for a touch for Cambridge.

- Code word is: Raven.

Seattle Ringing Zoom 4/11/20
Topic: Discussion of the coursing order in Plain Bob 8 and how it is . Page 1/3 affected by bob calls
NB: Discussion and notes require a copy of PBS plain course with the call locatron marked
NB: Discussion and notes require a copy of PBS plain course with the call locatron marked [Lead-end: The row immediately below the dotted or solid indicating line]
There is also a "lead - head - The row preceding the time the
Questron: Lead-end, hav can one deduce the coursing order?
The coursing order can be obtained by picking any bell and proceeding up the cours and down the odd ones. If you start on an odd bell, start counting down, evens start up:
PBB 3-bell start: 16482735 choose 8" bell to start from. edfegba 5324687
Notrice you can start from any bell position and get the
Notree also (for plain Bob), this coursing order does not change: It is the same at each lead-end, assuming no calls are made.
Now, how does a Bob affect the coursing order?
Now, how does a Bob affect the coursing order? Now, how does a Bob affect the coursing order? If a bob is called at (V) fifths: the old Lead end: 15738264 becomes: 13578264
The new coursing order: 4685372 (country from Back) [or 8537246 from Tenor]
Comparing Old vs. New orders, we can see: Old: 8753246 Notice only 3 balls appeared to move about.
New: 8537246 Further more, Bais Fir, 4 This holds the for all
Consider a bob called at middle (M): Coursing Order (from Town) Coursing Order (from Town)
Consider a bob called at middle (MIT. Coursing Order (from Tenn) Old LE: 14263857 8753246
New LE: 16423857 8753462
New LE: 16423857 8753462 : Hold on, The rotation is clearly there, but it appears to be different bells! that's not right, is it? : Hold on, The rotation is clearly there, but it appears to be different bells! that's not right, is it?
latell like at the order in the
0: 3/29 6/0 1 So it is the same. I it holds dodge (i.e. get delayed)
back turther receive to start back back
Notrce also: The Low making the bob always slides back

Conducting - and how to use this to advantage? We have seen a bob only affects 3 bells of the coursing order: In/out/Make. Page 2/3
This can be an advantageous trick: Consider making call's so that we don't affect the last two bells'order; "Keeping the tenurs together".
What are the possible calls? _ They are:
Here B overnor optim 6 11 × 11 × 11 × 113 occars at call of "wrong" (St dodges the "wrong" (wrong) 12 × 11 × 113 occars at call of "Monde" (St dodges to "home" position) 12 × 11 × 113 occars at call of "Model" 11 × 114 × 116 occurs at all of "Model" 11 × 114 × 116 occurs at all of "Model" 11 × 11 × 116 × 116 occurs at all of "Model" 11 × 11 × 116 × 116 occurs at all of "Model" 11 × 11 × 116 × 116 occurs at all of "Model" 11 × 11 × 116 × 116 occurs at all of "Model" 11 × 11 × 116 × 116 occurs at all of "Model" 11 × 11 × 116 × 116 occurs at all of "Model" 11 × 11 × 116 × 116 occurs at all of "Model" 11 × 11 × 116 × 116 occurs at all of "Model" 11 × 11 × 116 × 116 occurs at all of "Model" 11 × 11 × 116 × 116 occurs at all of "Model" 11 × 11 × 116 × 116 occurs at all of "Model" 11 × 11 × 116 × 116 occurs at all of "Model" 11 × 11 × 116 × 116 occurs at all of "Model" 11 × 11 × 116 × 116 occurs at all of "Model" 11 × 11 × 116 × 116 occurs at all of "Model" 12 × 12 × 12 × 16 × 160 × 16
- P P P P P P P (2 nd Wrong) - P P P P P P P (3 nd Wrong)
So you can just memorize and count, it nothing else! The Before call is a special case. 3 Befores won't come round. Looking at the alternate view suggests an approach though. Instead of three rotations, we need 5:
Shart: 8753246 B $8732465B$ $24653B$ $46532B$ $65324B$ $53246So it works, but the touch is false.$

Why is a touch of 5 Before calls necessarily False? We have to look at how one might call a touch of 5 Befores (and how the tour is affected): At Before, the Tenar's before-bell makes the dodge:



A more mathematical way to prove this is false: The simplest way to call five Befores: PPP - - - - PPPP (consult the PB8 method) As we've stated, we can start anywhere in the calls, so I is the same as: PPPP|PPP - - - -Which has seven plain-leads in arow, which is a plain course of PB8 before you've even got to the bob calls. So it must have come round already. Hence it is false.

Bound: Consider another favorite call: What if we mix a wrong call with a Home call? We know how the Coursing order is affected, so let's try!

Start: 8753246 W: 132546 H: 135426 W: 154326 W: 154326 W: 153246 H: 153246

Now how Might we call this? Note that the Wrong lead occurs immediately, then the Home lead occurs at the last lead in a plain course. If we call Bob immediately, we can wait for home to come aroud in 6 plain leads, then just repeat that: (W) PPPPP--PPPPP-

Note also there are only 5 plain leads together, so we never encounter that plain course issue (unlike the Before touch)

Exercise for Readers:

- 1) how are bells affected at a single?
- 2) Since any touch may be called from any bell," how might you call one at the discussed touches from a bell other than the tenor? It ensuring that the touch does not ring false (i.e. cannot have 7 consecutive plan leads)