THE BRAIDER

APPENDIX 2009

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	pg.
A final note concerning the material dealt with in the sixty Issues of *The Braider*	*i*

A quarterly publication
for
the braiding artisan

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A.G. Schaake; 21 Sundown Cresc.; Hamilton; New Zealand.
D. Van Tassel; Box 335; Craig, Co 81626-0335; U.S.A.
F.J.M. Masurel; Ganzenzijde 4; 2317XG Leiden; Nederland.

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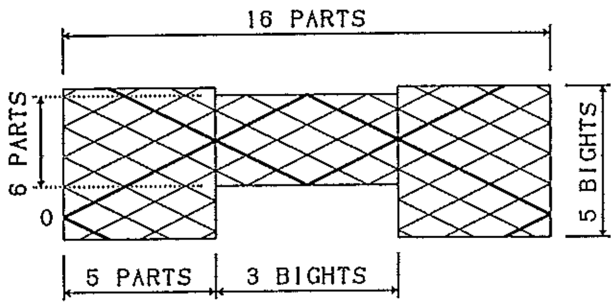
Copies may be obtained from:

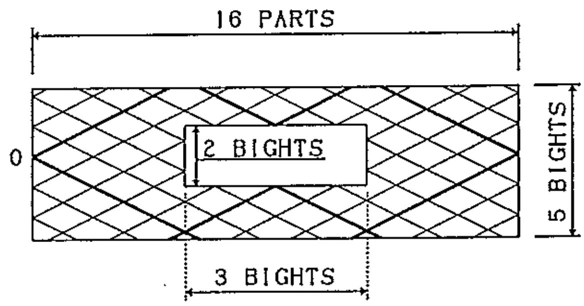
A.G. Schaake,
21 Sundown Cresc.,
Hamilton,
New Zealand.

A final note concerning the material dealt with in the sixty Issues of *TheBraider*.

The material dealt with should be regarded as an *introduction* to **braiding**. Hence by no means has any of the topics been treated exhaustively, and neither have we touched all braiding topics. At various instances we might have made some scathing and, to some people, inflammatory remarks about the way braiding topics have been and still are being dealt with. Although these remarks are more than justified, especially there where it concerns people who are supposed to be knowledgeable in their field. A typical case is illustrated by the following episode: In the latter half of 1994 we submitted to *The Fibonacci Quarterly*, the offical publication of the Fibonacci Association, an article entitled *On sequences of compound braids — some properties and problems* for publication in the proceedings of the *Sixth International Conference on Fibonacci Numbers and Their Applications.* Such submissions are subsequently send by the editor of the association to a referee. The referee concerned was no doubt supposed to be a professional mathematician, however, one of the most staggering statements he/she made was: *In essence, the paper describes a family of complicated diagrams (see Figure page 3) parametrized by 4 variables and asks about properties of these diagrams.* See the diagrams concerned below.



Grid-Diagram for a CFC-Braid (showing one string-polygon only)*



Equivalent CWH-Braid (parameters (H, V,X,B))*

There was of course a full explanation of these very simple diagrams given, hence the statement *a family of complicated diagrams* clearly demonstrates that the referee is certainly not much of a mathematician and certainly not anywhere near a real professional accademic one.

The purpose of those scathing and to some people inflammatory remarks referred to above should, however, be seen to stress the utmost importance in the necessity of correcting false and misleading concepts, and are certainly **not** meant to offend anyone, but rather to awaken those living in dreamland. The mathematics encountered, although of a very basic and hence fundamental nature, is an indispensable tool in many of the topics discussed. We hope that we have been able to show the importance of **meaningful** string-run diagrams which are the geometric frameworks (hence mathematical frameworks) of the braids which contain most of the answers one is looking for.

CFC BRAIDS and CWH BRAIDS.

SPECIAL BRAID FORMS Pt.2

CWH KNOTS

Say it is known that the Regular CWH* Knot with $B = 15$, $P = 10$, $b_v = 3$, $b_h = 4$ requires two strings.

Why are we then able to tell, **without making a string-run diagram**, that the Regular CWH* Knot with $B = 21$, $P = 16$, $b_v = 3$, $b_h = 4$ also requires two strings?

CWH KNOTS

The Complemental Law

A Regular CWH Knot with B , p_1 , p_2 , b_v , b_h .

$$p_F = 2B - 2b_v \,,$$
$$P^* = 2b_h \,,$$
$$P = p_1 + p_2 + 2b_h \,.$$

The Complementary Regular CWH$'$ Knot with B , p_1' , p_2' , b_v , b_h' .

$$p_1' = B - p_1 \,,$$
$$p_2' = B - p_2 \,,$$
$$b_h' = B - b_v - b_h \,,$$
$$P^{*\prime} = 2b_h' \,,$$
$$P' = p_1' + p_2' + 2b_h' = 4B - 2b_v - P \,.$$

Examine the Complementary Regular CWH$'$ Knot for which $b_h' = b_h$:

1. $b_h' = B - b_v - b_h$.
   Then $B - b_v - b_h = b_h$. Hence:
$$B = b_v + 2b_h \,,$$
$$P' = 2b_v + 8b_h - P \,.$$

2. $b_h' = 2B - 2b_v - b_h$.
   Then $2B - 2b_v - b_h = b_h$. Hence:
$$B = b_v + b_h \,,$$
$$P' = 2b_v + 6b_h - P \,.$$

3. $b_h' = 3B - 3b_v - b_h$.
   Then $3B - 3b_v - b_h = b_h$. Hence:
$$B = b_v + \tfrac{2}{3}b_h \,,$$
$$P' = 2b_v + 5\tfrac{1}{3}b_h - P \,.$$

4. $b_h' = 4B - 4b_v - b_h$.
   Then $4B - 4b_v - b_h = b_h$. Hence:
$$B = b_v + \tfrac{1}{2}b_h \,,$$
$$P' = 2b_v + 5b_h - P \,.$$

n. $b_h' = nB - nb_v - b_h$.
   Then $nB - nb_v - b_h = b_h$. Hence:
$$B = b_v + \tfrac{2}{n}b_h \,,$$
$$P' = 2b_v + (4 + \tfrac{4}{n})b_h - P \,.$$

Say it is known that the Regular CWH* Knot with $B = 15$, $P = 10$, $b_v = 3$, $b_h = 4$ requires two strings. Why are we then able to tell that the Regular CWH* Knot with $B = 21$, $P = 16$, $b_v = 3$, $b_h = 4$ also requires two strings?

Solution:

If the Regular CWH* Knot with $B = 15$, $P = 10$, $b_v = 3$, $b_h = 4$ requires two strings, then also the Regular CWH* Knot with $B = 5$, $P = 10$, $b_v = 3$, $b_h = 4$ requires two strings due to **bights-equivalency**.

A complementary knot of this last knot (which then also requires two strings) has the following specifications:

$$B = 5,$$
$$b_h{}' = n(B - b_v) - b_h = n(5 - 3) - 4,$$
$$P' = 2B - P + 2b_h + 2b_h{}' = 2B - P + 2n(B - b_v).$$

For $b_h{}' = b_h$ we obtain $n = 4$. Hence $P' = 2\cdot 5 - 10 + 2\cdot 4\cdot(5-3) = 16$. Consequently the Regular CWH* Knot with $B = 21$, $P = 16$, $b_v = 3$, $b_h = 4$ requires two strings due to **bights-equivalency**.

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