BOSANQUET - A BRIDGE -A DOORWAY TO DIALOG.

by Brv Wilson, Sept. 1974.

((Note: This is the slightly edited text of the letter accompanying the six pages of diagrams which follow. I have taken the libery of adding two pages of a 1965 article on classification and notation. --- J. Chalmers))

The Bosanquet does imply linear temperaments, and especially over equal, since the top of the keyboard cannot be reached, usually, by the fingers from the bottom--and the great number of digitals are provided primarily for the modulation of a smaller fingerable module. The justification for equalizing, then, would be: 1. It simplifies acoustical tables; 2. It saves on tone generators (but shared generators invalidate that); 3. In some cases it is so near to the temperament the theorist has judged to be "best" that is might as well be used instead. "Best" depends on our weighting system, of course, which can only be called arbitrary.

On my page 6--the 1 3 5 7 9 11 Diamondic Cross-Set with its shown fingering calls-out for linear temperament, especially as the members 5/9 and 11/5 fall on the same digital (for homogeneous fingering), D-, as do their reciprocals 9/5 and 5/11 at B +. Also the 1.3.5.7.9.11 "Combination Sets" suggest the linear temperament eventhough they are 100% articulate (surprisingly) on the keyboard. May I point out, however, that members 3-9, 9, and 3* are within 2 skhismas of members: 5-7-9-11, 3-5-7-11, and 5-7-11* respectively (* and their intersects, of course). This strongly, even overwhelmingly, indicates a closing of the series at the cycle 41. This is not too surprising, considering that I based the fingering on modulus 41 to begin with, but in a sense. I'm delighted with this neat bit of acoustical confirmation of the cycle coming in from the other end of things.

Aside from acknowledging Meantone, my diagrams do not stress the corresponding mappings of harmonic modules. A keyboard diagram illustrating these can/should be set up to go with your linear temperaments. I can prepare these in collaboration with you, or you may feel free to trace or revise any of my diagrams. ((This would be a good project for a future issue of XENHARMONIKON. -- J. Chalmers))

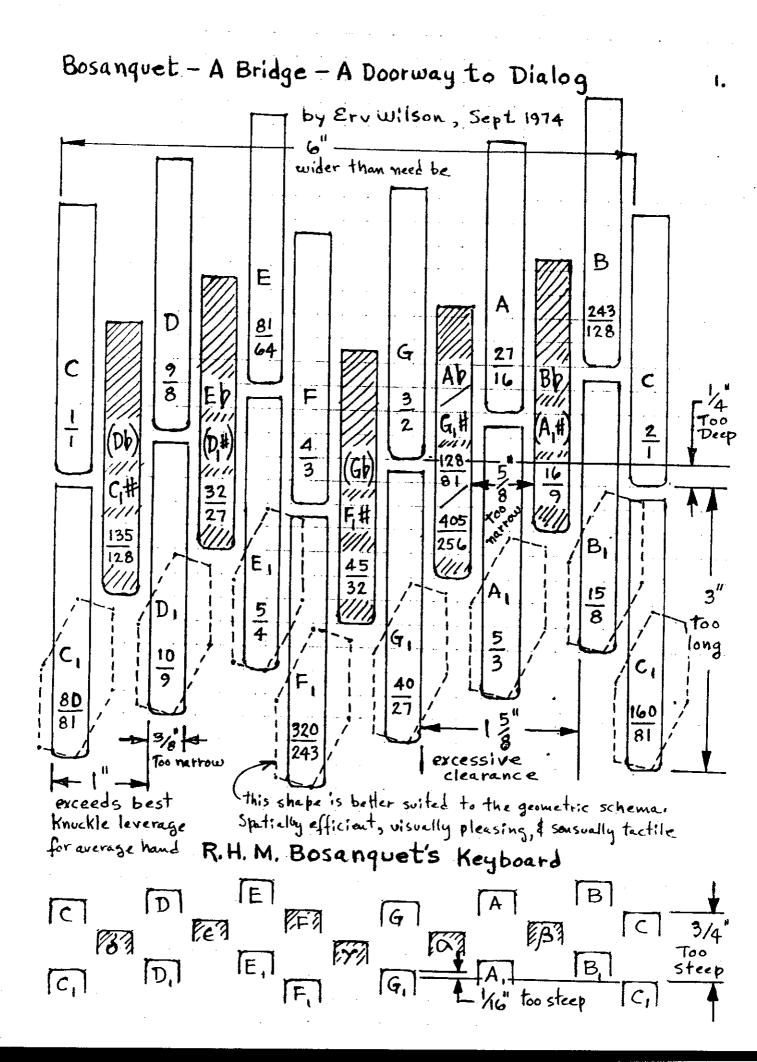
I am emphatically biased toward the positive systems, as I feel this is where my ("Our" is presumptuous.) great new adventure lies. We've always had the Fifth or the Third on some kind of borrowing system that takes from Peter to pay Paul. In the positive systems -- and FOR THE FIRST TIME IN WESTERN HISTORY we have both the Fifth and the Third, both Pythagorean and Just. But instead of borrowing from 3 to pay 5, in linear temperaments (especially 41 approximations) we now borrow from 5 to pay 7 and 11, far lesser apostles.

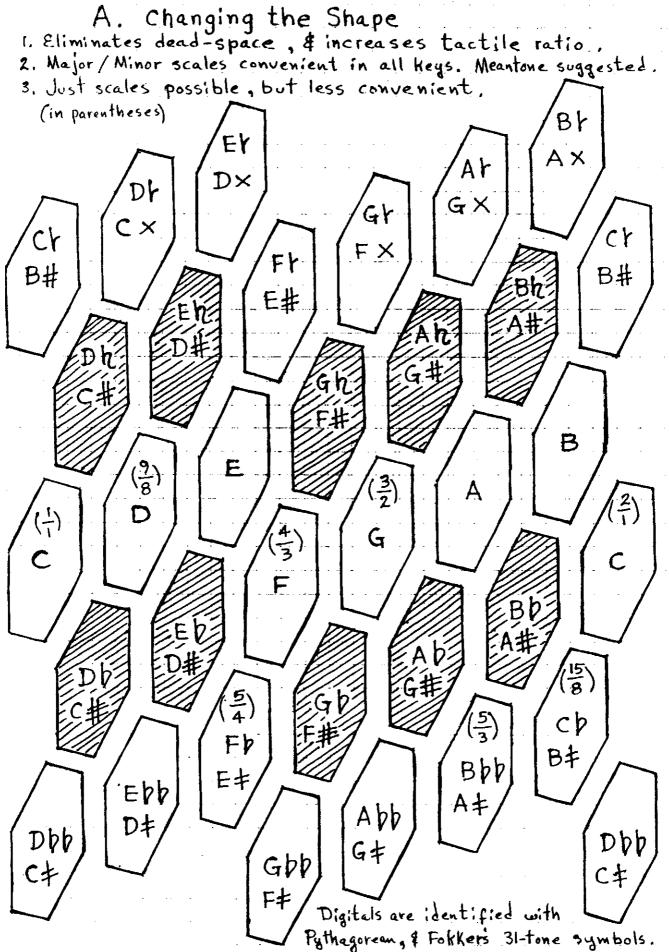
And the positive (Fb = 5/4 of C) systems do open the door of Dialog with India. And that's a mind-blower. It is difficult to gaze, without flinching, upon the implications of this anticipated encounter. All the Ragas of India! If changing the derivation of the 5/4 is like a high tide to our confortable habits, then un-fixing our pitches must be like the

undertow.

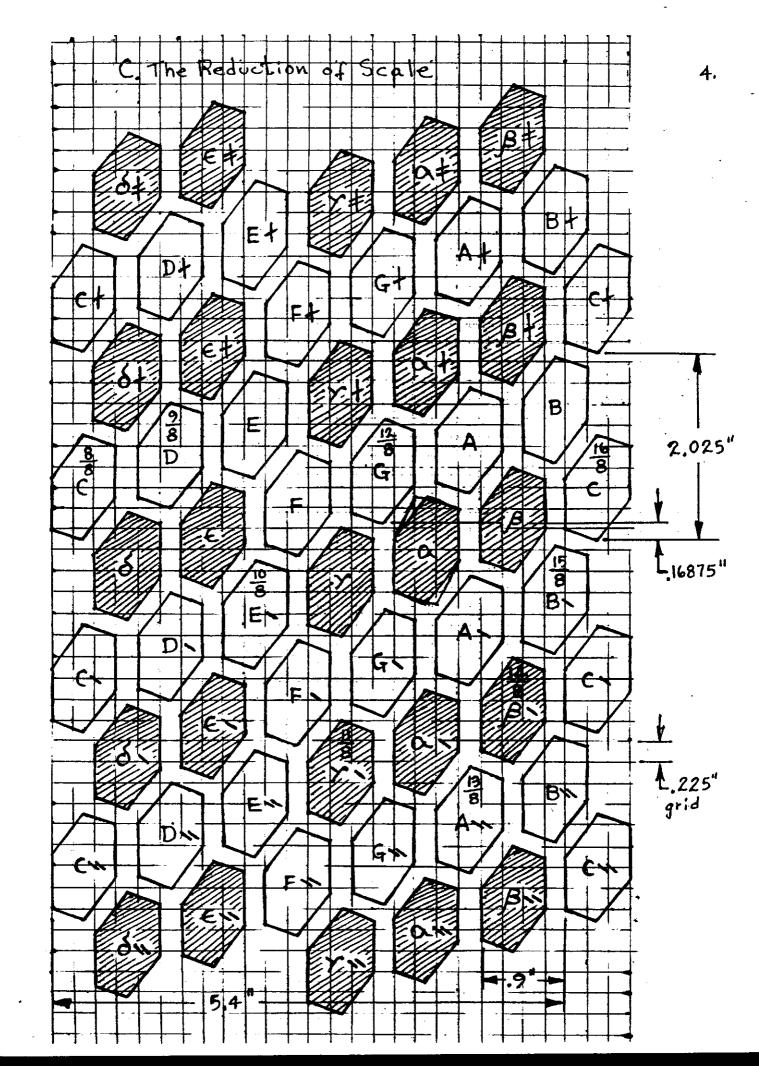
I see the eloquence I've struggled for all week is surfacing this morning!

> Colonia Pacheco Chihuahua, Mexico Sept. 13, 1974.

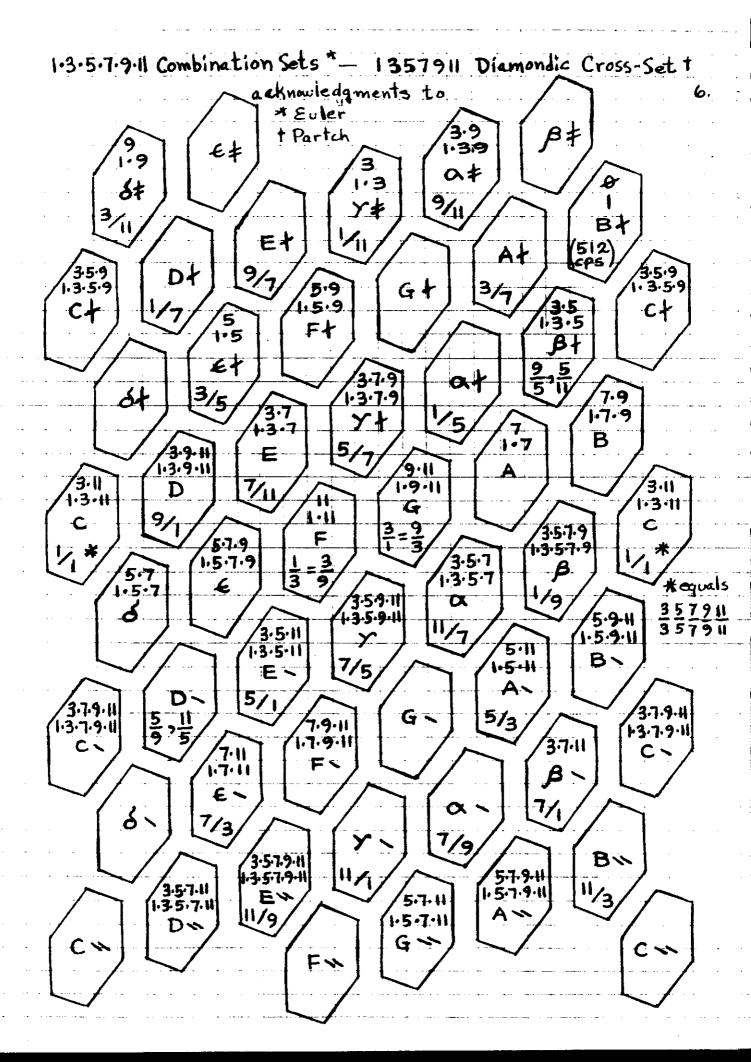




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thru-out the system.



A CLASSIFICATION OF TONAL SYSTEMS. AND A PROPOSED STANDARDIZATION OF SIGNATURES

Issued by Erv Wilson March 1, 1965

3bly positive	2bly positive	Positive	Neutrel	Negative	
		5	12	19	Singulary systems
	10	17	24	31	Binary systems
15	55	29	36	43	Ternary systems
27	34	41	48	(55)	Quarternary systems
39	46	53	(60)	(67)	Quinary systems

Illustrative definition;

Singulary system: Binary systems: Ternary systems: Quinary systems:

One unit interval separates C from C# Two unit intervals separate C from C# Three unit intervals separate C from C# Quarternary systems: Four unit intervals separate C from C# Five unit intervals separate C from C#

Negative systems: Neutral systems: Positive systems:

B# is one unit interval below C B# is equivalent to C B# is one unit interval above C 2bly positive systems: B# is two unit intervals above C 3bly positive systems: B# is three unit intervals above C

Note: The signs bb, b, 4, #, * are, without exception, as derived by Fourths.

Fractional Signature:

Applicable Systems:

Whole	bb	Þ	4	# *	5 12 19	Singulary
1/2	bb k	b r	\$ #	# # *	10 17 24 31	Binary
1/3	助忱ゆ	b 4 1	4 + 4	+ # # *	15 22 29 36 43	Ternary
1/4	かたたか) b + + 1	 	¥	27 34 41 48 55	Quarternary
1/5	(Not des	signed.)			39 46 53 60 67	Quinary
30 4	_					-

¹² is the Neutral, Singulary system and requires the Whole signature. 22 is the 2bly Positive, Ternary system and requires the 1/3 signature.

³¹ is the Negative, Binary system and requires the 1/2 signature.

⁴¹ is the Positive, Quarternary system and requires the 1/4 signature. 53 is the Positive, Quinary system and requires the 1/5 signature.

