An Analysis of Tayutai for Koto (1972) Composed by *Makoto Shinohara*. A 3-dimensional Approach

Leigh Landy

ABSTRACT

In 1972 the Japanese composer, Makoto Shinohara wrote "Tayutai" (Fluctuations) for koto, percussion instruments and voice. This text contains a detailed analysis based on the hypothesis that three approaches have been neatly synthesized in the work: the application of traditional Japanese techniques, the influence of Darmstadt-like serial developments as well as a purely experimental approach.

1. TAYUTAI

This work was written by the Japanese composer, Makoto Shinohara (born in 1931, currently residing in Utrecht, The Netherlands) for koto, voice, and various percussion instruments: Chinese shell chimes, Japanese bamboo chimes, urchin chimes from The Philippines, 2 high-pitched wooden boards or boxes and two stone plates (various pitches). The koto player, who plays the percussion part and is equipped with 2 sets of koto plectra, 1 pair of rubber, wooden and plastic sticks and one cembalom stick, is expected to perform the vocal part as well, although this work may also be performed as a duo. The duration, due to the use of visual notation, has no fixed length. A sum of the called-for time lengths is 6'20, yet performances have lasted up to 7'20.

The piece has been chosen for analysis, not only due to its experimental nature, but also due to its binds with specific traditions. It is in fact this meeting of the experimental with the traditional that will be focused upon. The published score (Zen-on Music, Tokyo) and two recordings of the work have been consulted for analysis: first, the solo version as recorded by Akiko Nishigata (JVC-Victor [Japan] KVX-1102) and a non-published recording of a concert at the San Francisco Museum of Contemporary Art (1978) at which the composer performed together with the vocalist, John Duykers.

Tayutai means fluctuation. As Shinohara has written in the program for the San Francisco concert, "The piece represents the psychological fluctuation between hope and despair and has an introspective character." This confrontation of hope and despair is most evident in the vocal part consisting of isolated single words vocalized (sung, spoken and using techniques approaching Sprechgesang); yet this conflict can be found in the instrumental parts as well as will be discussed below.

The work will be presented as follows: first the three dimensions implied by this article's title will be introduced in Part II; the three "voices" will then be analyzed, first separately, and then as a whole. After these analyses, the three dimensions will be discussed separately as a re-analysis of the work. Finally, a concluding section will briefly compare *Tayutai* with other Shinohara compositions which might be looked into similarly.

II. THE HYPOTHESIS - A THREE DIMENSIONAL ANALYSIS

It is the opinion of the author that *Tayutai* can be viewed as a work synthesizing three different compositional ways of thinking: (1) that which can be found in traditional Japanese music (and in fact in other distinctly different traditions as well!), (2) that of post-World War II Europe, i.e., techniques developed in Darmstadt, and (3) that of experimental, music which involves laboratory work, be it aleatoric or, alternatively, large-scale pre-compositional experimental development.

The choice of these three "dimensions" is in essence an obvious one. Shinohara is learned in koto techniques and is thus able to use and experimentally "abuse" this instrument musically. The addition of percussive sounds is, according to the composer, hardly revolutionary. In a conversation in June 1984, he spoke of a noise factor inherent to much traditional Japanese music. As there are no specific pitches called for in the percussion parts, as many of these sounds are unpitched, as many koto sounds are percussive in nature in the work, this noise factor can be said to be highly present. Further the combination of voice and koto is a common one, although we will see that the employed vocal techniques are not traditional ones.

The Darmstadt element is particularly understandable when regarding the fact that the composer studied in the late 50s with Messiaen, worked as Stockhausen's assistent in 1965 and has moved around "Darmstadt circles" for more than two decades. Although the accent on diverse timbral changes in this work may be influenced by a Japanese heritage, the research of the 1950s and 60s in Darmstadt in structuring timbre is nevertheless shadowed in a great deal of Shinohara's compositions.

Finally the experimental is most likely the germ-cell from which Tayutai has grown. The large research leading to the collection of possible timbres and sound combinations in this very colorful work shall form the basis of proof that experimentation played a major role in the piece's conception and in its architecture. Although it is premature to make a comparison, one of the reasons which brought the writer to look closely at this composition was the playful hypothesis that Tayutai was actually the missing Sequenza Jū (ten, in Japanese) for koto.

Before it can be proven how evident this 3-dimensional hypothesis is, the piece will first be analyzed in descriptive terms.

III. A DESCRIPTIVE ANALYSIS

1. The Score

While following this descriptive analysis, the reader is requested to consult the score and the two charts printed below as the following texts will only complete that which is notated on the charts. Rehearsal numbers have been added onto the published version of *Tayutai* for convenience. Charts 1A and 1B correspond to Parts 2, 3 and 4 of this section; Chart 2 belongs to Part. 5.

Before embarking on the koto part, a few words from the composer might be of relevance. Shinohara mentioned in the 1984 conversation that, when composing this work, he began by collecting his materials, building what might be considered to be a data bank from which he did not need to use all collected possibilities. Once this was completed, the architectural phase of the work began. Shinohara claims to be less strictly formalistic than his colleague, Stockhausen, in his work and advised not to try to find a non-implied superstructure in the piece. Instead, he spoke of almost independent links of a chain. Interestingly, the koto part was written completely before the percussion and vocal parts were added. This sort of independent construction is not unique to *Tayutai* as will be discovered in the conclusion. Still, the latter parts can by no means be seen as an accompaninemt to a koto solo, for the analysis of the vocal part will show that Shinohara is almost constantly involved in a modern form of word painting – the koto is but one element hereof.

2. The Koto Part

Tuning: One of the most unusual characteristics of the koto part is its tuning (see the prose descriptive page of the score). At reh. num. A not all twelve pitches are present; the IVth string is temporarily tuned to D sharp so that the first truly important tone-center, E, can be approached from close by. At reh. num. B, the IVth string is tuned via B flat to its permanent pitch, A. At this point all twelve tones are present with only one doubling (triple octave), G sharp, on strings III and XIII. At this point the tuning is vaguely Bergian, following the four-interval pattern m2, P4, m2, P5... In this way these intervals plus the tritone and m6 are quite present, yielding intervallic contrast between consonant and dissonant adjacent and alternating strings. Suffice it to say that this tuning is a major deviation from traditional koto tunings.

CHART IA KOTO & PERCUSSION PARTS Descriptive Typology / Rehearsal Number

REH	SUM	TIME	DEN-	Description1)
		LEN		

1401	141 1 1141	L LLIV.	. 3111	
Α	0,00	34"	1	V-1 accept on timber
B	0'34	30"	1-4-1	K:1 - accent on timbre
ь	0.54	30	1-4-1	K:1 - retune IV D sharp-B flat-A; KP:4 - at the end.
C	1'04	21"	1-4	
	1 04	21	1-4	K:2 - establishment of three of the primary tones, A, E, F;
				then P:wo – $gagaku$ -like accelerando percussive effect [with less traditional mirror rit. and unexpected $f > pp$ decresc.];
				change of ambiance; percussion cues utsuro.
D	1'25	7"	5	KP-1,3 – irregular rhythm; grace notes = double fifth A-E-
	1 20	A last		B; rubber sticks used.
E	1'32	14"	6	KP:5 – rub strings with plastic stick handle + tremolo
				underside koto -> continuity & exchange with vocal part.
F	1'46	5"	6-0	KP5 – rub strings to the right of the bridge with wo. stick
			0.0	edge [answer to osore]; the first tacet.
G	1'51	12"	1-0	P:wo, b.ch. – two loose sounds; an interruption in the ten-
				sion derived from the first silence; answered by kanashi and
				further silence.
Н	2'03	15"	1	K:2 - tonal fluctuation, ambiguity (fifths above D sharp,
				E).
I	2'18	12"	1	K:1 - voice departs on the same note.
J	2'30	4"	5	KP:6 - fluctuation via clusters (use of rubber stick handle);
				similar to reh. nums. D, K, S.
K	2'34	12"	2-6	K:1,3 - Two hands - two playing techniques: single note
				tremolo, chords of 5,6,5,6,7,8,9 notes (fluctuating).
L	2'46	17"	6	K:1 - contin. of reh. num. K (voice departs on this note);
				and KP:4 - on three different strings.
M	3'03	12"	1	P:u.ch - punctuation of end of tremolo; radical change of
				atmosphere $-> 2 \times naze$.
N	3'15	7"	5	K:5 - first non-chordal atonal fragment.
0	3'22	9"	6	KP:5 - similar to reh. num. E; plastic stick rubs strings vio-
				lently; other hand strikes underside of koto quickly, irregu-
				larly (here similarity to reh. num. K - two hands, two
_				parts).
P	3'31	2"	1	P:st - shortest segment = 1 note interruption of continuity
				between reh. nums. O, Q; announcement of midare; extre-
				mely Japanese form of interruption: a discrete, dynamic
_	2122	<i>(</i> "	,	unpitched sound breaking up a continuum.
Q R	3'33	6" 3"	6	KP:5 - continuation of reh. num. O.
K	3'39	3	4	KP:4 - functions with respect to reh. num. Q as reh. num. F
				is to reh. num. E; note unusual use of plastic stick handle,
				and P:st - similar to reh. num. P (i.e. end of disorder); also
S	3'42	6"	2	very short – here not as interruption, but instead as bridge.
3	342	U	2	K:3 – see also reh. nums. J, K: quasi-clusters all 6 notes
				wide; fluctuating lowest note (2 chords descend, 1 ascends,
				and then 3 descend); as reh. nums. J,K ff.

T	3'48	7"	1	P:wo x 2, st x 1 – three loose notes – influenced by <i>ikari</i> , percussive objects are struck at their loudest; breaking up of continuity.
U	3'55	7"	5-0	KP:1,3 – use of freely bouncing plastic stick; similar to the six note chords at reh. num. S – here arpeggiated.
V	4'02	8"	5-0	K:1, P:st – single note accelerando with Japanese closing punctuation via percussive stroke (although the expected dynamics are reversed!); unique segment surrounded by silence – preparation for reh. num. W.
W	4'10	13"	6	K.6 – two hands, two techniques (see also reh. nums. K, O, and Q); nervous equivalent of vocal part.
X	4'23	23"	1	K:1 – on note where voice has arriven at reh. num. W; and KP:1 – for timbral variation; the longest segment after the introduction (reh. nums. B, C); point of reflection between textual negative and positive; beginning of dynamic rest.
Y	4'46	16"	1	K:2,1 + final glissando – first moment of tonal ambiguity and fluctuation since reh. num. H; resolution on the unexpected note G, although the voice takes over the F at this point; end dynamic rest; only reh. num. which could be divided into two separate parts.
Z	5'02	34"	2-3	K:4, KP:2 – ostinato note is first note in vocal part; segment with the largest register (instrument and voice) and widest dynamic range of the entire work; arrival at dynamic climax of work (end of reh. num. Z); only point of piece defying any form of symmetry.
AA	5'36	22"	6-0- 6-0	P: all three ch's – inevitable explosion after reh. num. Z; only use of all three chimes at once; return to tranquility as in the introduction of the work.
BB end	5'58 6'18	20"	1	K:1 - see beginning; koto tacets before final word.

¹⁾ For the key: see text; for pitches and dynamics, see Chart 2.

Key to Chart 1A: For the first three columns see the score.

Density: 0 - Tacet

- Very few notes (less than one /second)

- Very many notes (ca. 10 / second)

6 - Sound continuum

Descr.: K:1 - Koto; one specific tone-center (or at most two); each note has a different color; several dynamic changes; tone repetition.

K:2 - Koto: chordal passage with a tonal basis.

K:3 - Koto: chordal passage lacking influence by one or two central tones - approaching atonality.

K:4 - Koto: combination of K:2, K:3 - chordal (may be arpeggiated), somewhat atonal, but repeating a constant lowest pitch.

K:5 - Koto: atonal passage.

K:6 - Koto: continuity of sound with free choice of pit-

KP:1 - Percussive koto technique: an extra timbre is added through the use of (a) stick(s).

KP:2 - Percussive koto technique: Bartók pizzicato.

KP:3 - Percussive koto technique: atonal passage.

KP:4 - Percussive koto technique: unpitched - suri-

KP:5 - Percussive koto technique: other unpitched percussive continuity, including use of plectrum.

KP:6 - Percussive koto technique: clusters (atonal, aggregate effect).

P:wo - Percussion: wooden board(s) or box(es).

P:st - Percussion: stone plate(s).

P:sh.ch, b.ch, u.ch - Percussion: respectively shell chimes, bamboo chimes and urchin chimes.

Key to Chart 1B: For the first three columns, see score.

Fourth column: p=pitched, rp=relatively pitched.

Fifth column: 0=no glissado, 1=rising, 2=falling and 3=both

rising and falling motion.

'-' (hyphen) means that at least two rehearsal Description:

numbers form a group as far as text treatment is

concerned.

CHART 1B **VOCAL PART**

Descriptive Typology / Word + Interpretation

REH JAPANESE ENGLISH PITCHED/ GLISS- DESCRIPTION1) NUM WORD TRANSL. REL.PITCH ANDOS

Α	hitori	alone	rp	0	- First 5 words = introduc-
+	iru				tion;
B		being	гр	0	 word painting minimal
D	yūbe	evening	rp	1	- continuity is suggestive of
C		Japanes	se haiku, wi	th yūbe bein	g a special concrete word:
C	urei	anxiety	LD	()	- ambiguous colm oters
10		phere; f	irst evidenc	e of "psycho	ological fluctuation";
+C	utsuro	emptiness	s rp	0	- this word stagatto with light
D		separati	on of syllal	oles: solo foll	lowed by silence -> emptiness.
D	tanomi	поре	rp	0	stacatto; great separation of
		syllable:	s; first rea	l exchange	with koto: hone confronts first
_		dissoliei	nt, disorder	ed fragment.	
Е	osore	fear	p	3	quasi-hocket with koto with
		repetitio	on of syllab	le sounds (os	50-0-re-e) A sonorous fear in both
		parts - c	ounterpart	of previous	hope.
(F)					
G	kanashi	sad	rp	0	half-whisper, introverted
		(solo) sa	dness.		moper, meroverted
H					
I	omoi	thought	р	1	- voice prominent above
		constant	koto tone:	a rising thou	ight leading to
+I	kirameki	sparkle	p	0	- sparkling in acceleration
		answered	d (psycholo	gical contras	st) even more dynamically by koto
		clusters.			reformation dynamically by Koto
(J)					
K	nozomi	wish	p	1	- again a psychological cou-
		pling wit	h nervous l	koto plaving	with addition of drone; here the
		wish is ac	companie	d by a simila	ir atonal disorder/dissonance ->
		tension, 1	eading to	- ,	a atomai disorder/ dissoriance =/
L	munashi	vain	p	2	a descending "in vain"
		accompa	nied only b	y the tremelo	drone drone
M	naze x 2	why	гр	0	twice articulated at
		approxim		halfway noi	nt of the piece. An illusion to
		Berio's w	hv? in "Sec	menza V"? I	First naze arrives after first truly
		percussiv	e explosion	second as	ins impact due to a koto tacet;
		symmetry	point-1	s, second ga	in ampact due to a koto tacet;
N	mayoi	hesitation		0	stacatto with separated
		syllables:	hocket-like	hesitations	with the koto.
0	kurushimi	suffer	n	(3)	tramala manus CC
			arhythmic	ally by koto	- tremolo nervous suffering, ; followed, after a sharp percus-
		sive explo	alaa laa	and of Koto	, ronowed, after a snarp percus-
(P)		SIVE CXIIICI	SION, DV.		

+BB ai

0 midare disorder p (3) - ...an equally nervous midare (an important term in koto literature) in the same ambiance; the inevitable end to the disorder is the noise-amplifying suri-zume along the low strings; symmetry point-2. (R) S ikari continuity followed by anger rp discreteness; similar atonal ambiance as at reh. num. K (wish); local dynamic climax. (T) U kokoro heart three isolated heart beats between two nervous areas (reh. nums. O-S, W); also placed between non-rhythmical isolated koto fragments; second concrete word in piece -> most poetic moment since reh. num. C. (V) W nayami trouble 2(,3)literal trembling in all parts X tayutai fluctuation p 0(!) - ironically stable fluctuation; only the koto F sharps fluctuate; turning point between several negative and positive words in text; music reminiscent of beginning of piece. Y akogare yearning p two single tones (voice - F, koto - primarily G) striving for consonance. vorokobi - as joy leads to radiance, the largest glissando, widest vocal and koto ranges are presented... kagayaki - ...leading to the dynamic climax of the work - confirmed by percussive chime explosion at the beginning of the following reh. num. AA. AA tomoshibi - conclusion (four words) similar to introduction; relative calm; isolated sounds, each of great coloristic importance; +AA furusato - home = third concrete word home -> more poetic influence - made clear through delivery in silence; BB negai - interval between voice and

1) For the key: see text; for pitches and dynamics, see Chart 2.

possible happy ending left to the descretion of the listener.

koto is inversion of reh. num. Y; half-whisper = sound of desire;

- as "home", in total silence;

Techniques: It is here that East meets West most frequently. The koto notation list (point 5 of the descriptive page of the score) names a few traditional koto techniques as well as a number of "new fashioned" notational symbols (Bartók pizz., quarter-tone symbols, clusters, etc.).

As far as the Japanese techniques are concerned, for the sake of completeness Willem Adriaansz's well-known reference has been consulted (*The Kumiuta and Danmoto: Traditions of Japanese Koto Music.* Berkeley: University of California Press, 1973). Only four traditional left hand techniques were found that had not been specified by the composer:

-En; e.g., reh. num. A -2nd note: pitch is raised to next higher tone in the scale after being plucked.

Kasaneoshi; e.g., reh. num. A – 3rd note: pitch after being plucked is pressed down, released and pressed down again.

Oshihanashi; e.g., reh. num. B – 2nd note: pitch is raised and let loose before following tone.

Ichijū oshi; found relatively often – here a string is raised a m2 before being played.

There were no non-notated right hand techniques found that were apparently derived from traditional koto literature.

3. The Percussion Part + Percussive Koto Effects

As mentioned above, "noise effects", although a relatively unimportant part of traditional koto music, are seen by the composer to be a "natural extension" of pitched, highly timbral material in Japanese music in general. In Tayutai, this extension can be found in the form of extended koto techniques and in the fact that the koto player is requested to occassionally utilize a modest assortment of percussion instruments. A quick inspection of Chart 1A shows the following: in the description, percussive koto effects (KP) are more common than purely percussive sounds (P). In the former case, half of the extensions are pitched and can be seen as coloristic augmentations to koto techniques. The non-pitched, or highly atonal koto-percussive sounds (KP:4-6, KP:3) are, with exception of a drum-like approach to the instrument (reh. nums. E, O and Q), also coloristic extensions which can be easily related to the traditional sound of the koto. Only the tapping of the underside of the instrument may be seen as one of the less present percussive sounds. It is in fact the longest percussive sound, the chimes being of middle length and the wooden and stone sounds most staccato-like. The extra instruments are almost entirely used for punctuation, termination, contrast, amplification, in short, typical traditional Japanese percussive elements. In this sense, the percussion part is an extension of the koto part and by no means a second instrumental voice.

4. The Vocal Part

An acquaintace with koto music and a second look at Adriaansz's book for confirmation show that Shinohara has pretty much ignored what might be called standard vocal techniques for koto music. A sole exception is his occasional use of slow-moving vocal glissandi. The text, consisting of twenty-seven single words (only one of which is repeated a second time), is itself a break with koto tradition; it most likely has no link at all with any kind of singing tradition.

The fact is that the vocal part is where the composer's confrontation of hope and despair becomes lyrical, almost literal. Chart 1B illustrates that almost every word in the text is treated as an example of word painting of one sort or another. The voice, like the instruments, presents a large spectrum of timbres. Fourteen of the words are notated on relative pitches, which adds an element of freedom, comparable to that of the visual notation used throughout. The combination of the vocal colors plus the interrelationships between the words

sung and the corresponding musical ambiance makes the work quite unique regardless of the application of the traditional approach of word painting.

One can conclude that the composer spent a great deal of effort finding the correct timbre for each sound/word, an experiment of its own right.

5. The Three Parts as a Whole: a Few Form Elements

A surprising consistency which in the study of *Tayutai* arises is the presence of diverse symmetries, one of the few relatively tangible architectural devices in the work. Symmetry will be treated empirically to illustrate its variety.

- The koto part at reh. nums. A and BB shows a similar timbral treatment of a central tone with restrained dynamics.
- The voice part begins and terminates with what may be called a poetic treatment of the text: 5 words at reh. nums. A-C and 4 words at reh. nums. AA-BB.
- A three-part symmetry can be found at reh. nums. D, N (middle of the work) and Z. The koto part is very dynamic, avoiding any central tone. The voice in the early and middle fragments is treated in hocket fashion with the koto. At reh. num. Z, the vocal part is involved in another symmetry described below.
- Glissandi in the vocal part: reh. nums. I and W contain a rising fifth, reh. nums. K and L rise and fall successively. Only reh. num. Z is exceptional, due to its being the registral and dynamic climax of the work.
- There are two symmetric points of interest in the vocal part in the middle of the work. First reh. nums. K and L form a dynamic pair via the glissandi; this is followed at reh. num. M at which naze is twice spoken. Reh. nums. O and Q (with their percussive partners P and R) might be considered the symmetric partner of K and L, making more dynamic the two "why's" at reh. num. M.
- Although time-wise the following is not symmetric with respect to the middlepoint, reh. nums. K and S are the only two examples of concretely notated atonal chordal movement, with K rising and S descending in direction.
- The amount of relative pitch vocalization of the text is more present in the beginning and at the end of the work and less so in the middle.
- Finally a special local-symmetry of interest can be found between reh. nums. O and Z with reh. num. X as turning-point. The first words are all negative in nature (kokoro/heart has been given a negative tint contextually), the last all positive, with the work's title, "fluctuation", as the balancing point. Provocatively, the instrumental part does not follow this change literally, but more so in terms of musical energy.

Furthermore one could inspect many details of exchange between koto and voice parts in terms of prominence, exchange and so on. However, in Chart 2 one finds rather little pitched interchange between the two voices; at points where one would expect symmetric coordination, this is most lacking (e.g., at the end of the work, the seventh interval at reh. num. BB after the ninth at Y). Also one can hardly speak of nuclear tones in the work, although the double fifth in the koto part A-E-B often comes to prominence along with the ambiguity of the neighboring tritones E-A sharp, F-B.

CHART 2 Weighted Transcription of Most Prominent Pitched Material and Dynamics Including Pitch Correspondences

reh. num KD TO 4-5-2-6 4-2 VOICE 2-4= 5-6 5~(层) 4-2(=) 2-6= 5-2-5 1-2-140 6-5 -1,2-5 2-5 1 3-2

dynamics: ppp & pp = 1, p = 2, mp = 3, mf = 4, f = 5, ff = 6, A = stonal; no veighting possible

1. 13 strings (indicated by I to XIII in the score) are tuned at first as follows:

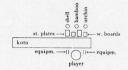


During the beginning section the string IV will be tuned down to

2. Besides a koto, the following percussion instruments are used:



- 2 wooden boards or boxes (with defferent pitches in high register) 2 stone plates (with different pitches in high register)
- 3. For the performance following equipment is used:
- 2 sets of koto pleetra (one is for the left-hand fingers) I pair of rubber sticks, I pair of wooden sticks, I plastic stick () I cimbalom stick (thick-headed wooden stick)
- 4. The player should place all instruments and equipment around him so that he can reach them as easily as possible (place the wooden boards and the stone plates on the far side of the koto and suspend all chimes from stands above the boards and plates).



- 5 × damp the resonance of the string let the string resonate
- NR near the ryûkaku (ryûkaku is the name of the string-holder at the right end of the koto)
- OFFR off the ryūkaku
- left hand
- R right hand vuri-iro (vibrato)
- tsuki-iro (quick fluctuation to a higher pitch after the attack)
- hiki-iro (quick fluctuation to a lower pitch after the attack)

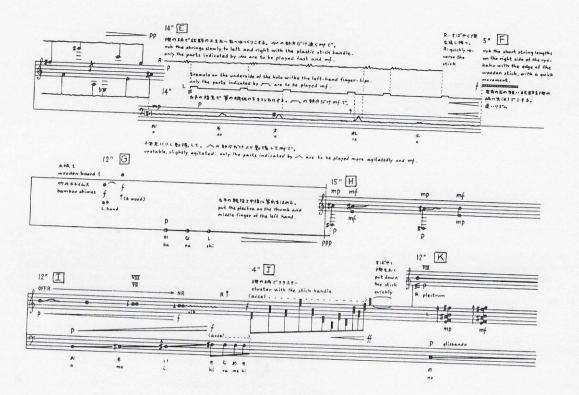
- suri-zume (rub along the string with the plectrum to left or right)
- sukui-zume (pluck the string with the back of the plectrum)
- with the finger tip
- keshi-zume (a fingernail of the left hand lightly touches the end of the string before the attack. The string gives a twanging sound with a buzzing vibration.) in one movement the plectrum plucks the string 1 vigorously and immediately
- afterwards strikes the wooden body.

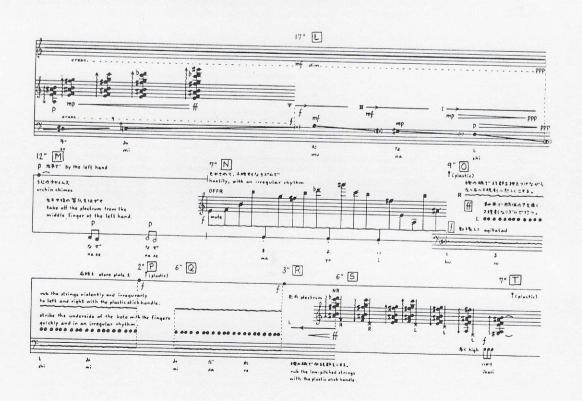
 mute (a finger-tip of the left hand touches the end of the string before the attack. The sound becomes damped and loses the resonance.)
- strike the ryûgaku (ryûgaku is the name of the wooden surface at the extreme right end of the koto.)
- cluster
- I quarter tone higher than # \$
- accelerando
- ritardando
- fluctuating rhythm normal (for the voice)
- whisper (for the voice)
- wansper (for the voice)
 between normal and whisper (for the voice)
 f. In the vocal part of the score pitches are indicated sometimes absolutely by traditional notation and sometimes relatively by visual notation.

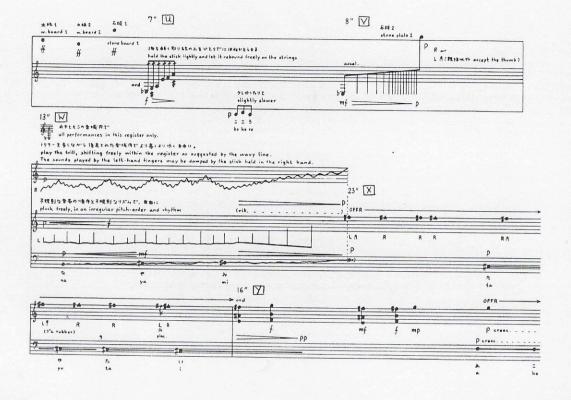
The vocal part is written for a male voice with the range voice all notes must be transposed an octave higher.

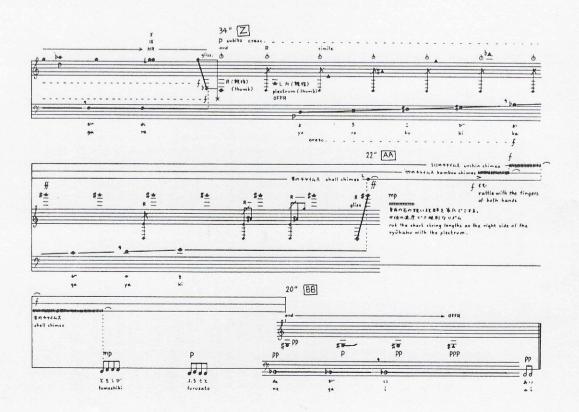
- 7. The vocal part and the instrumental part are intended to be executed by a single performer, but a duet performance by a singer and a koto-player is possible.
- The indication of duration in seconds, given for each passage, is approximate. The duration of each sound is relatively determined by the visual notation.
- 9. The duration of the whole piece is about 7 minutes.











In fact, when studying *Tayutai* using the rehearsal numbers as links of a twenty-eight part chain (27 words + 1 repetition, 28 reh. nums.), one cannot find a superstructure, but instead many handles to grab onto and then drop later on. Symmetry analysis, timbral analysis (including the presence and absence of pitched material) are useful tools, but do not provide *the* key to the work, a key which, due to the work's block-structure, probably does not exist. A word-painting analysis is most successful, but implies a very linear structure; *Tayutai* is not so linear.

The reason this writer is not disconcerted by the avoidance of over-definition of the work's form can be found in its notation, that is spatial or visual notation within well-defined boundaries. Shinohara knows at any given moment precisely what he is searching for, but that small amount of freedom in time relationships, in sound-color possibilities, in vocal techniques given to the performer(s) is a reflection of the element of subjectivity, or perhaps better said, the careful avoidance of total-structural thinking that makes formalism only a partial factor of *Tayutai's* coherence. Do keep in mind that, with the exception of the climax at reh. num. Z where the low D is played every 2", there is a total lack of rhythmical pulse throughout the entire work.

As stated in the hypothesis, descriptive analysis is but one approach to the composition. The following section will try to identify three major influences ("stimuli" may be a more proper word) which led to this work.

IV. TAYUTAI'S THREE DIMENSIONS

Sometimes when traveling one spends more time on the road than at certain destinations. To arrive at this section *Tayutai* had to be looked at in detail. Charts will not be necessary in discussing influence. The aim here is to see where *Tayutai* came from, at which points Shinohara broke loose from the various "traditions", and finally to pose the question of the great importance of innovation, that is experimentation in this work.

1. Japanese Music Tradition, among others

Makoto Shinohara is a Japanese composer who has lived in Europe since the 1950s. Yet he is seen by several musicians of his own country as one of the most Japanese (i.e., not as an internationalist) of today's composers. Certainly one can find works by Shinohara which pose great problems when looked upon from the Japanese perspective only; *Tayutai*, on the other hand, is one of the most explicitly Japan-influenced of the works.

The instrument in question leads to such extreme associations with Japanese tradition, that it is hard to disconnect the instrument from its own literature. (The few attempts that have been recorded seem to have led to inferior pop-like studies). Nevertheless, the koto offers great potential to the modern composer. As Japanese tradition and contemporary music both concentrate on sound

color to a great extent, alternative rhythms and rhythmical structures, the liberation of the note, or better said, the sound, the choice of the instrument with its percussive extension is a logical one. Shinohara, fortunately, has honored the instrument while exploring its sound potential simultaneously.

Although the vocal part to *Tayutai* is not Japanese in terms of its techniques, the approach is seemingly influenced by Japanese poetry which easier relates non-associated words like "being" with "evening" than one is accustomed to in the West. The introverted ambiance of the entire work is quite possibly influenced by Japanese poetic tradition as well. Also the fact that the koto player is requested to perform the vocal part conforms to tradition.

The punctuating role of the percussion instruments has deep Japanese (or Eastern) roots. It fits so naturally into the continuity of the piece that one wonders why this trio was not discovered earlier in traditional music. Shinohara's use of visual notation may seem ultra-modern at first view, yet it would be virtually impossible to capture the essence of Japanese musical color, time expression and emotion otherwise.

Yet tradition does not limit itself to Japan. Word-painting is an international phenomenon. Shinohara may very well find himself on a list with Janequin, Monteverdi and Schumann in future music history surveys. His approach to word-painting may differ from the known Western models, but diachronically, word-sonorous associations have changed radically. Shinohara's associations are obviously contemporary ones.

Even the recent past has created certain traditions for today's composers. Shinohara's French and German years coincided with a period in which a new tradition was evolving in and around Darmstadt. His Darmstadt influence is the subject of the second dimension.

2. Die Darmstadt-Schule und ein Japaner

When one thinks of Darmstadt, one thinks of works like *Mode de valeurs et d'intensités, Structures I & II*, and the *Klavierstücke*. Of course non-neoserialists were present at this famous crossroads; yet, the main subject of early Darmstadt was *Die Reihe* and everything that had to do with it, its parameters, its combinatorial potential, its subharmonic series, and so on.

Shinohara has always been an independent composer, never a true-blue member of any school of composition; still, Darmstadt and especially Stockhausen had their influence on him. Shinohara has not written a serial piece here, but has, by the nature of his totally new koto tuning, allowed himself to try out some of the Darmstadt techniques in this work. He has also written the piece parametrically, if only in the sense that one entire part was completed before the other was begun!

His studies with Messiaen are evident in the use of a block-structure in the piece. Although Varèse was probably the composer who brought this sort of approach to the fore, Messiaen applied it in his own way from the 1940s onward. It is unimaginable that Messiaen would ever take the approach to the extreme of

V. SOME CONCLUSIONS AND COMPARISONS

Tayutai; on the other hand, Japanese tradition has nothing comparable to offer. In this sense, Shinohara is assimilating the old traditions with the new in this

Obviously the great presence of tone-color study has been slightly influenced by the Darmstadt years. It was in Darmstadt that tone color was liberated to a full-partner of pitch, rhythm and dynamics as far as dimensionality is concerned in composed Western music.

A Darmstadt composer, whose way to innovation was, in those years, a very personal one was Luciano Berio, translating Die Reihe into his native tongue for use in a very special series of works known as Sequenze. In these works Darmstadt is only half present. Berio is busy rediscovering the possibility of rows (which became less and less present in his later pieces); at the same time, he was busy discovering experimentally and musically the sound potential of various instruments. In other words, his experiment was not only one of sound parameters.

Shinohara has definitely appreciated the Sequenze by writing one of his own. The source of the ultimate sound search on a given instrument can be found in Berio. Yet the coupling of this research with tradition is his own. It is in fact this association which makes Tayutai so experimental.

3. Experimental Music for Koto

Tayutai has been inspired by a great deal of musical sources and in so doing is totally unique. It is a large-scale experiment of assimilation incorporating various traditions, old and new, techniques of contemporaries and even older techniques of the composer, himself. "Where is there breathing room for creation with all these influences?" one may ask. In fact bringing these highly different approaches, sounds, words, emotions, and techniques together leaves the composer with a great deal of freedom, and an even greater challenge to:

- (1) not overly abuse or make overly present one of the influences,
- (2) combine dissimilar elements.
- (3) add something new, and
- (4) find proportions that have never existed before (i.e., to assimilate the dissimilar).

Herein lies the challenge of Tayutai, a truly modern, experimental composition exploiting accessible information which in principle does not belong together. This combination projected onto the musical field of composition yields an experiment pur sang, an experiment in which the dosis of innovation, despite the number of influential sources, is by definition high.

Many have said that experimental music has been losing energy since the 1960s; yet one wonders whether those who support such claims have not been keeping track of this sort of assimilation-music. It is the opinion of the writer that a great deal of today's experimental music is based on this very principle. Shinohara is an overt case; he has demonstrated that assimilation deserves evaluation and reaction.

It has often been said that all first, and possibly all second world inhabitants are members of an enormous consumer society. One can purchase products fabrica-

ted throughout the world; one can also listen to music of all ages and all cultures. It comes as no surprise with the omnipresence of information in these cultures that an artist turn to assimilation as a source of inspiration.

Tayutai is an excellent example of the combination of various traditions with various contemporary elements as the basis of a musical composition. This article has been an attempt to locate some important points of assimilation through the use of traditional, descriptive empirical analysis.

Shinohara's Tayutai is not his only work which deserves this sort of attention. Other clearly Japan-influenced works are worthy of mention: Kyūdo A and B (In Quest of Enlightenment) is a particularly interesting case. The "A" version (1974) is for solo shakuhachi player. The "B" version, written a year earlier, is for shakuhachi and harp (East meets West yet again). The "A" version is simply the extraction of the shakuhachi part from the "B" version. Is the "A" version emptier, incomplete? Is the harp unnecessary? Other works of interest are his Nagare (Flow-1981) for shamisen and bells, Juhichigen-No-Umare (Birth of the Bass Koto - 1981) for bass koto solo, and Turns (1983) for violinist and koto player or violinist alone. Equally interesting are his electronic works, such as his Mémoires (1966) and Broadcasting (1974), which deserve a similar treatment, be it through the looking-glass of modern technology.

In future discussions and analyses of today's music, especially that which fits into the experimental category, it is hoped that one add the questions of the sources of the employed musical material and of assimilation to the list of planned topics. In this way one might better understand how, to use a contemporary term, information is processed in recent compositions.

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Dr. Leigh Landy (1951) is a member of the Musicology Department of the University of Amsterdam responsible for the experimental music programme. His compositions, including several electro-acoustical works for video and theatre, have been performed in Europe, the Americas and in Japan.