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MADE IN U.S. A.

Bring Munhattan Group

Nicolas Collins 1002A Hewitt Box 692] Electronic Music 183 Mr. Alvin Lucie Much more Iwar-aid I given to German, and other European acountries by U.S composers were unsupported in studio equipment.

Electronic Music? Electronic anvivonment. Any thing recorded on surrounded by a lectronic anvivonment fair conditioners] Drahms makes object: beginning middle end.
Hort and artists predict what's going to happen, predicta
and understand change Undertanding 'electronic change' before it came about was made practical: John Cage. —
tape did not exist before WWIT I could not explore electronic sounds before. Around turn of centur. (1889-1905) began to experiment with electronic sound producers -The remin, ondes martinol, producing and _____ In 1937, Cage predicted recording electronic music. Wrote a piece ('3a') for electronic instrument - oscillator - and piano in traditional notation.
Then a piece for L.P oscillator recording, oscillator, and Then tape arrived. Whole medium opened up. Can record an. sound on take I dea of piece not limited by orchestoral imstrumonial sounds. Opened up sound world direct access to sound, Now could use many noise at all. Collage.

Lucier in school 1000-1954. Worst time in 100 years for education: Anti-intellectualism, anti-university McCarthyism. Constricted technical optight. Big thing was Schoenberg [Austria], 12 tone scales dark depressing and of the world stuff Students all writing baring stupid, turgid, "unmitations of Schoenberg. Ignored (dage's cancert, Went on Fulbright & Itali, Young composers writing Schoenberg infaster 20 years, But cago should up and shook them up. Didnit greed to dig into another (French - German) culture monthing for Whosic, Total opening up to wonderful, terrifically fandastic music. 1965 opened of to Alpha/Brain wave work Invited Eage to participals in Concert that spring. Flectrodes, high gain amplifiers LOCI, twelve speakers that stimulated percussion instruments [Alpha is low frequency, event] Cage worked amps, Mixing, Very quiet piece, in the darth Chairman of Music dept. gave a hothoot to the other jerk had no enthusiasism at all. Cage had impulse _ do it now! lage had problem of how to explain his pieces, Was a finn y man, thought and should be funny How should be give a talk would tell jokes stories, arechotes. Found David Tudor, hest song pianist in the world. Could play anything, Fantastic collaboration. Once was electronically realized accompaniment for cage's

stories at one talk higave.

"An old shoe would look beautiful in this room."
Everything has its place in art. Everything opens up. Tations in environmental sounds - playing prano pièce with street noise coming through window. Anechoic room. Nom silence; high and low & sounds (nervous system, bloodstream). No silence It you are open, you hear, long in to hoar sounds of the environment. Wo such thing as no sound. What you don't learn in school, An emptying. Silence, by John Cage
A Year from Monday, by John Cage.
Subooks to read for contemporaries ///// projects mm of Omales Chance leads to otrouple

Electronic music on electronic inspired Electronic/electric 9/6 environment. Origin of electronic music: John Cage Before W.W.II, center of Art [visual] was France, both culturally and economically. During and after war, painting boomed in U.S.A - abstract N.Y artists. Discovered an energy that admit have to rely on Europeans, Ideas of painting - how you paint - were totall, different Action Painters - lact of painting as important as The Final product, Different environment, Pollach, Very physical. Painting [product] is what happened because of the process. N. Y. School, Had done other, European-style painting. Then big change, Terrific energy. Located in East Village. Cage and Morton Feldman were also warking down there with Pollack, Kline, De Kooning, Guston. Artists can do what they want. Can throw away I to an extent I the past. Warm Composers can't be as physical as artists, printers. Except with tape. So it becomes more closely involved with Action Painters. Christian Wolff. Son of editor, high class German family, was a pravist, wanted to loca composer. Found Cage (around 1950) and studied composition with him. Wery strange. Then one day Wolf's father published German edition of I Ching, took chinese book of Oracles. Chance leads to account of the way things are I dea of chance and simultaneous, non-cause and effect events. Somewhat similar to action painting. Chech it out: overtone series on wolf-cries. aftering for purposes of communication.

wolfs can hear large overtons series, extended series,

can identify each other by overtone structure. Cage wrote a piece where checisions about "certain things"— pitch, timbre, instrumentation, rhythm, etc.— were made found in I Ching. Aleator, music or indeterminacy."

Composer takes himselfout of the position of composer; anti-imperialist point of view—and comes from where it is Expands experience, areas to be experienced, because of the removal of personal choice and replacement with chance.

Europe:

Here musicians were getting more determinate, rather than indeterminate. Schoenberg and 12-tone system, all notes are equal. Opposite of tomality atomatity. In order to maintain equalness of notes, that atomatity, had to organize. Tone you and permutations.

Organization of pitch, rhythm, rest, instrumentation, technique, octave Pre-determined, pre-planned before actual process of composition. Total organization.

So. Cage, U.S. A, and indeterminacy vs. European. Determinacy.

Recording: Indeterminacy
In electronic world, you can listen to many things at once. More complicated people. Air conditioning, this talk and the sounds [Tudor electronically realized an early indeterminate work of Cage, done with concrete sounds.

No such thing as boredom.

Cage Lunction 5 in a non-linear way. Classic era (Haydn, Mozart) produced clear linear pieces. Form of the sonata: Had a key, chose il for a reason - Eb is strong, Db quiet and soft, F is weither here nor there -; starts and ends in that key Important relationships the T, I, That civilization based on conquering natural world; don't let sound stand on its own, exist naturally . Colonialism." Build the art. so don't let the tonic drop down [naturally a titth to The subdominant, but go up to It, conquerte natural force. Theme A, often repeated, Then theme B, then repeat Noth. Then development of ideas of A and B in any keys. Then return to A and B, but nothin the tonic - recapitalism. Can add a coda; descent to It, then back up to tonic. A Bill development | recapitulation | coda, Very Linear! Lage and others say we am in our environment, perceive more than one thing at once Because of media, electronic environment, we think in a non-linear Adodoway I Ching. Non-cause and effect. Occurs at a certain point in time 1, interenced by other things going in on at the same time. No thing has nothing to deado with something going on at the same time, Sideways, Instantaneous, The pieces: Some of Them you can start anywhere - instantaneous, non-linear, no sense of time, sound is more important. I Ching, Zen, electronic media: maain problem people huve

listening to music is that of Zero-time. New thinking. You don't conquer sound Story: Lucient performs Cage piece for Etheramphilied toy piano's. Indeferminate score - transparancies to be superimposed and drawn on for various paramaters. Made it 20 minutes long stopwarthed Had an attack of quilt, anxiety, in the middle of the piece: caught in time and Space [sound was mixed all over hall]... - No sense of home. No anxiety to return home Itanic] in cantemporary environment was embarrassed, wanted to leave but kept going. Not improvization—improvization is recalling the past, patterns but stuck to the score : Maintain the industerminacy. Got into the material so deeply that time sensed changed completely, 19 minutes went by as I. Art is not on the page length of real time of the LP, but rather is the question of psychological time I Information theory. I cage is very pure Lucie random belongs to Cage, bucie works with giving players a practical saturation to work with /in. Cage was a beautiful piamist California born and raised; drapped out of Pomora. Tried out architecture school in France - didn't want to drow cathedrals, dropped out. Studied with Schoenberg, who said he was a great student but no composer, thi35-38 became interested in East but blew it sometimes by writing for the instruments but not the Thought, philosophy then began working with instruments without doternute

pitch - drums, percussion,?...

Amores, footpropored pichorum percussion [4 tom toms, per patter 1943 * A I prepared piano II percussian - a tom. toms, pod ratte III wood blocks (not chinese) >II prepared piano complex rhythmic schemes. linear [befor I Ching] precise score, conventional € + Double Music (with Low Harrison) 1941 metal Water butfalo bells exotic. Javanese influences Brake drums Thunder sheets once again, complex phythmic patterns: duration structure of smallest segment of piece is model of entire structure —old idea, but new material. No 19 it century emotional, romantic * From Concert Percussion for orchestra, Cage, Cowell, Harriston Roldon, Russell Time 5/8000

Check it out: splice tape sideways! Lotom IPPI (nosinvall and other size Weldon #6 9 Lants multiple careful similar selection appeared We - gratuate gritus to labour 2" 9391 to fineward to glawa to branch brokens rubias tip of laborar war

Staggering. Opens things up. Irritation. Destruction of pre-conceived ideas, Jontinual suprise. 9/14 -> Bakeris Biographical Dictionary (Studied with Schoenberg, but had no ear for traditional music." Pushed him into other tryings. - Cage always does the most efficient thing oriental influence used percussion. Didn't want to carry around all the percussion — inefficent — so used prepared piano, Become his gamelan. Then used electronic sound most efficient No studios in America, unlike German, and Italy. So started with some tape machines. Found objects - Duchamp; musique cancréte. Paris 1948 Cage detined same sounds for a piece . City, country Within each several catagories "sounds made by; air, hard objects, etc. Made à visual score - xaxis in respect to time. Cochannel piece How to slice the sounds Cage anticipated This problem. Made a score so de piece could be refecorded, told people how to splice lattack + and decay) Working with tape along greater exploration of sound Characteristics, opening up of sounds. William's Mix - wait! 19370, I maginary Landscape # 1 used oscillators + tapes of Bell telephane discs [Stockhausen said that he invented Franchelectionic music] Rether crude piece. Recorded live, 195?

now -> Williams Mix Paul Williams. Stony paint, M.Y. "Artist colony" 1951 on 52 -> Fortang Mix. Transparent overlay score gave him splicing outline. Incredible splicing work. Used as accompaniment for Aria. Supersaturation of sound inputs. Recorded in Milan. And doesn't have to please, make you happy or sad. To hour Straight is poster broken is regular. Each his com WouldAll Widow of 18 springs for to court of exercising stee nother mas interested in the indeterminant whole is

9/19 I Ching: Similtaneous occurences are bound to have something to do with each other; non-cause and effect, non-linear. In composition, 10 A-B-A. Anything/onysound can go with any other thing/sound.

Musical instruments no better for producing sound than anything
else. Music did not have to accompany donce Somehow great accidents When Cage began using the I Ching he brought in eastern philosophy and left the timbre (Double Music) behind I Ching: 64 Heragrams (combinations of lines) - 2 trigrams in each {== 6 lines: straight is positive, broken is negative. Each line can {== be in state of rest (remains the same) on change, generales another hexagram, with Done with stalks (traditionally) but can be clone with coins.(3) Heads = Vin = 2 } ex: all tails = 9 (positive, change); all heads = 6 (regative, change) tails = lang = 3) Build from bottom up. Find diagramin I Ching 9 = positive, change -6 - hegative, change -c-7 = positive, rest Change: generales 8 - negative, rest --Cage decided: Wonderful Widow of 18 springs I, as he saw it as exoticism stealing; rather was interested in the indeterminacy. Wrote ----

THE STATE OF THE S

10 TRANSPARENT SHEETS WITH POINTS. 10 DRAWINGS HAVING SIX DIFFERENTIATED CURVED LINES, A GRAPH (HAVING 100 UNITS HORIZONTALLY, 20 VERTICALLY) AND A STRAIGHT LINE, THE TWO LAST ON TRANSPARENT MATERIAL.

PLACE A SHEET WITH POINTS OVER A DRAWING WITH CURVES (IN ANY POSITION). OVER THESE PLACE THE GRAPH. USE THE STRAIGHT LINE TO COMMECT A POINT WITHIN THE GRAPH WITH ONE OUTSIDE.

MEASUREMENTS HORIZONTALLY ON THE TOP AND BOTTOM LINES OF THE GRAPH WITH RESPECT TO THE STRAIGHT LINE GIVE' A TIME BRACKET' (TIME WITHIN WHICH THE EVENT MAY TAKE PLACE) (GRAPH UNITS = ANY TIME UNITS).

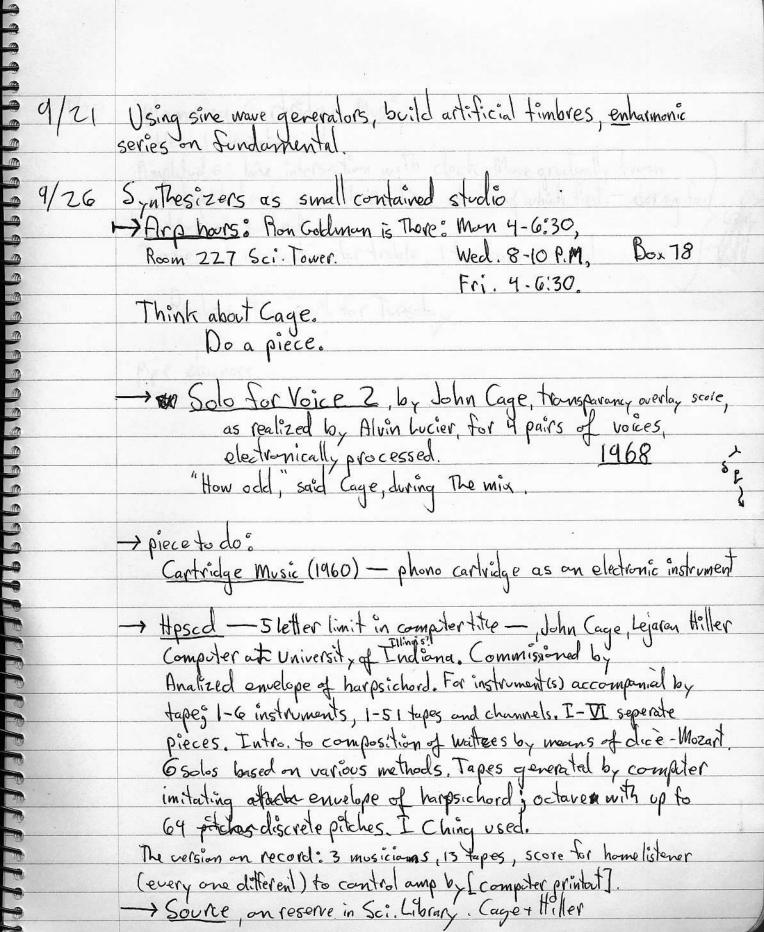
MEASUREMENTS VERTICALY ON THE GRAPH WITH RESPECT TO THE INTERSECTIONS OF THE CURVED LINE AND THE STRAIGHT LINE MAY SPECIFY ACTIONS TO BE MADE. THUS, IN THE CASE OF FONTANA MIX) TAPE MUSIC, THE THICKEST CURVED LINE MAY GIVE SOUND SCURCE(S) WHERE THE LATTER HAVE BEEN CATEGORIZED AND RELATED QUANTITATIVELY TO 20. (IN THIS CASE, THE 2 POINTS CONNECTED BY THE STRAIGHT LINE MUST PERMIT THE LATTER TO INTERSECT THE THICKEST CURVED LINE.) INTERSECTIONS OF THE OTHER LINES MAY SPECIFY MACHINES (AMONG THOSE AVALABLE) FOR THE ALTERATION OF ORIGINAL MIATERIAL. AMPLITUDE, FRE CLENCY, OVERTONE STRUCTURE MAY SECURICED.

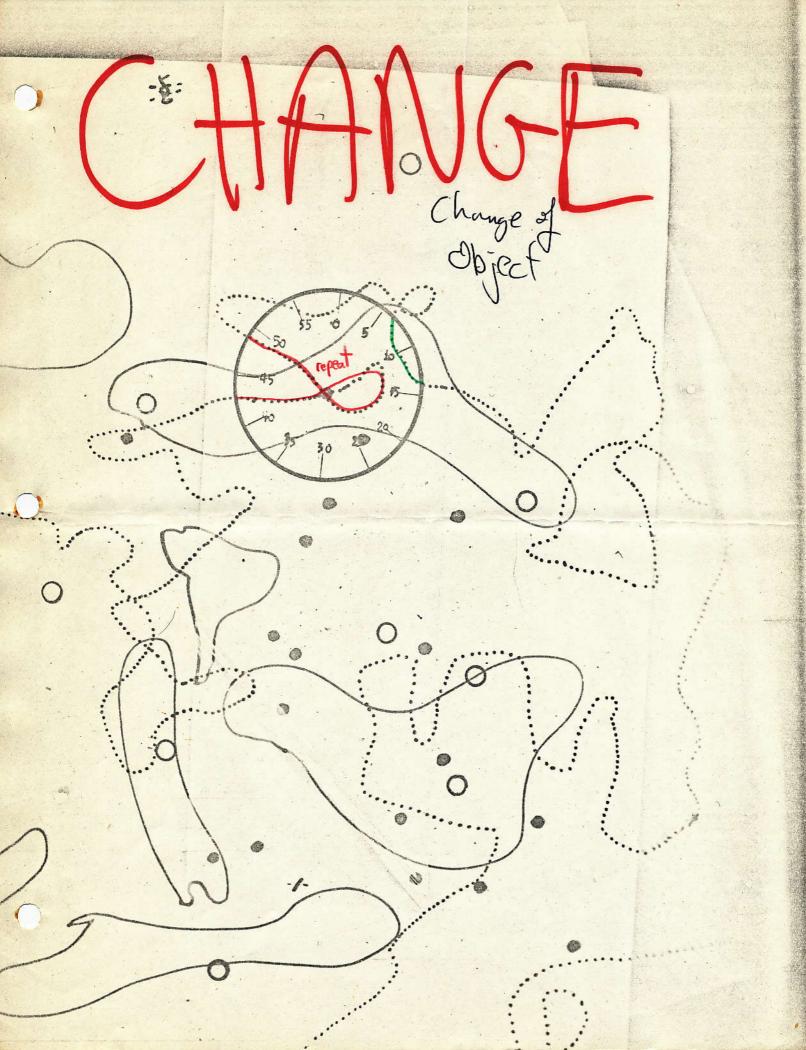
MEASUREMENTS MADE MAY PROVIDE ONE OF A HUMBER OF PARTS TO BE PERFORMED ALONE OR TOGETHER. IN MAKING TAPE MUSIC, AVAILABLE TRACKS MAY BE LESS IN NUMBER THAN THE TIME BRACKETS GIVEN BY MEASUREMENTS. PRAGMENTATION IS THEN INDICATED.

THE USE OF THIS MATERIAL IS NOT LIMITED TO TAPE MUSIC BUT MAY BE USED FREELY FOR INSTRUMENTAL, VOCAL AND THEATRICAL PURPOSES, THUS, AFTER A PROGRAM OF ACTION HAS BEEN MADE FROM IT, IT MAY BE USED TO SPECIFY A PROGRAM FOR THE PERFORMANCE OF THE OTHERWISE VNCHANGING MATERIAL WHERE POSSIBLE TECHNICALLY THIS CAN BE NOT ONLY SIMPLE CHANGES OF TIME (STARTING, STOPPING) BUT ALSO ALTERATIONS OF FREQUENCY, A MPLITUDE USE OF FILTERS AND DISTRIBUTION OF THE SOUND IN SPACE.

Music of Changes IT Ching Book of Changes]. Not thinking of variation development, A.B. etc., but of Changes, Profound idea. Principles. 40 difficult minutes. Composed on stats, with pitches. But ordering, duration, silences determined by I ching. Instead of Imager, gave numbers 1 to 64 to Hexagrams, used numbers to devermine the parameters/qualities Indeterminacy; also imperfections in paper, transparancies Unrespect Unrepeatability of the art. for feedback on percussion (contact mikes)...

Enharmonic series





Planning Cartridge Music How to notate: Amplitude; line intersection with clock. Move gradually from one amplitude to amother-free choice of which first-doing for duration of sound. Tone: I intersection for treble, I for bass countrol, Realize the part for Tresday, Pipe eleanors



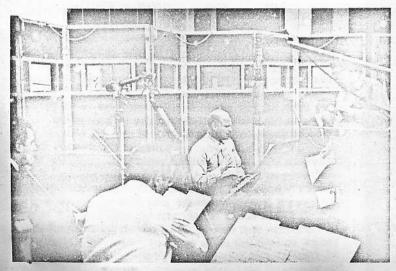
MORTON

1926



My earliest recollection of music—I couldn't have been more than five—is my mother holding one of my fingers and picking out "Eli Eli" with it on the piano. Like almost everyone else, my early teachers were very bad. At the age of twelve, however, I was fortunate enough to come under the tutelage of Madam Maurina-Press, a Russian aristocrat who earned her living after the revolution by teaching piano and by playing in a trio with her husband and brother-in-law. In fact, they were quite well known in those days. It was because of her—only, I think, because she was not a disciplinarian—that I was instilled with a sort of vibrant musicality rather than musicianship.

I realize now that that image of Madam Press—a non-professional with all the ability and brilliance of the "pro"—that "dilletantism"—has always remained with me. She was a close friend of the Scriabines and so I played Scriabine. She studied with Busoni, and so I played Busoni transcriptions of Bach, and spent more time reading his footnotes than playing.



DAVID

MATTHEW

DON

NID.

DAVID

MORTON

The years passed almost identically, and with the same random quality of these opening sentences. I composed little Scriabine-esque pieces, gave up practising the little that I did, eventually abandoned my teacher and found myself at fifteen studying with Wallingford Riegger, who was equally lax with me.

I must have had a secret desire to leave this dream-like attitude to music, and to become a "musician," because at eighteen I found myself with Stefan Wolpe. But all we did was argue about music, and I felt I was learning nothing. One day I stopped paying him. Nothing was said about it. I continued to go, we continued to argue, and we are still arguing eighteen years later.

My first meeting with John Cage was at Carnegie Hall when Mitropoulos conducted the Webern Symphony. I believe that was the winter of 1949-50, and I was about twenty-four years old. The audience reaction to the piece was so antagonistic and disturbing that I left immediately afterwards. I was more or less catching my breath in the empty lobby when John came out. I recognized him, though we had never met, walked over and as though I had known him all my life said, "Wasn't that beautiful?" A moment later we were talking animatedly about how beautiful the piece sounded in so large a hall. We immediately made arrangements for me to visit him.

John at that time lived on the top floor of a tenement overlooking the East River on Grand Street. It was a magnificent view, four rooms were made into two. A large expanse of the East River, just a few potted plants, a long low marble table and a constellation of Lippold sculptures along the wall. (Lippold lived next door.)

The reason I linger at the memory of how John lived is because it was in this room that I found an appreciation and an encouragement more extravagant than I had ever before encountered. It was here also that I met Philip Guston, my closest friend who has contributed so much to my life in art.

At this first meeting I brought John a String Quartet. He looked at it a long time and then said, "How did you make this?" I thought of my constant quarrels with Wolpe, and also that just a week before, after showing a composition of mine to Milton Babbitt and answering his questions as intelligently as I could he said to me, "Morton, I don't understand a word you're saying." And so, in a very weak voice I answered John, "I don't know how I made it." The response to this was startling. John jumped up and down, and with a kind of high monkey squeal screeched, "Isn't that marvelous. Isn't that wonderful. It's so beautiful, and he doesn't know how he made it." Quite frankly, I sometimes wonder how my music would have turned out if John had not given me those early permissions to have confidence in my instincts.

In a few months I too moved into that magic house, except that I was on the second floor, and with just a glimpse of the East River. I was very aware at the time of how symbolically I felt that fact.

I had already become friends with David Tudor while I was with Wolpe. Now I introduced him to John. Soon afterward Christian Wolff appeared, and then Earle Brown, who met John while he was on tour in the middle-west and decided to make a new life in New York in order to be with the new music.

There was very little talk about music with John. Things were moving too fast to even talk about. But there was an incredible amount of talk about painting. John and I would drop in at the Cedar Bar at six in the afternoon and talk until it closed and after it closed. I can say without exaggeration that we did this every day for five years of our lives.

The new painting made me desirous of a sound world more direct, more immediate, more physical than anything that had existed heretofore. Varese had elements of this. But he was too "Varese." Webern had glimpses of it, but his work was too involved with the disciplines of the twelve-tone system. The new structure required a concentration more demanding than if the technique was that of still photography, which for me is what precise notation has come to imply.

"Projection #2" for flute, trumpet, violin and cello—one of the first graph pieces—was my first experience with this new thought. My desire here was not to "compose," but to project sounds into time, free from a compositional rhetoric that had no place here. In order not to involve the performer (i.e. myself) in memory (relationships), and because the sounds no longer had an inherent symbolic shape, I allowed for indeterminacies in regard to pitch. In the "Projections" only register, (high, middle or low) time values and dynamics (soft throughout) were designated. Later in the same year (1951) I wrote "Intersection #1" and "Marginal Intersection," both for orchestra. Both these graph pieces designated only whether high middle or low register of the instrument were to be used within a given time structure. Entrances within this structure, as well as actual nitches and dynamics were freely chosen by the performer.



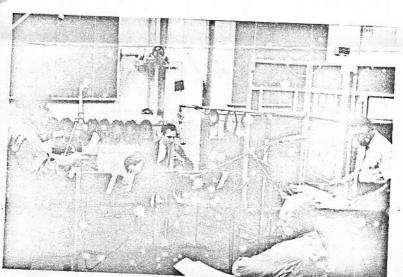
DON BUTTERFIELD

After several years of writing graph music I began to discover its most important flaw. I was not only allowing the sounds to be free—I was also liberating the performer. I had never thought of the graph as an art of improvization, but more as a totally abstract sonic adventure. This realization was important because I now understood that if the performers sounded bad it was less because of their lapses of taste than because I was still involved with passages and continuity that allowed their presence to be felt.

Between 1953 and 1958 the graph was abandonded. I felt that if the means were to be imprecise the result must be terribly clear. And I lacked that sense of clarity to go on.

I hoped to find it in precise notation, i.e. "Extensions For Three Pianos," etc. But precision did not work for me either. It was too one-dimensional. It was like painting a picture where at some place there is always a horizon. Working precisely, one always had to "generate" the movement—there was still not enough plasticity for me. I returned to the graph with two orchestral works. "Atlantis" (1958), and "Out of Last Pieces" (1960), using now a more vertical structure where soloistic passages would be at a minimum.

This brings us to DURATIONS—a series of five instrumental pieces. four of which are recorded here. In "Piece for Four Pianos" and others like it, the instruments all read from the same part—and so what you



MORTON MATTHEW

DAVIE

DON HAMMONE

PHILIP

have there is like a series of reverberations from an identical sound source. In **DURATIONS** I arrive at a more complex style where each instrument is living out its own individual life in its own individual sound world.

In each piece the instruments begin simultaneously, and are then free to choose their own durations within a given general tempo. The sounds themselves are designated.

The pieces, while looking identical on paper, were actually conceived quite differently. In **DURATIONS I** the quality of the particular instruments together suggested a closely written kaleidescope of sound. To achieve this I wrote each voice individually, choosing intervals that seemed to erase or cancel out each sound as soon as we hear the next. In the **DURATIONS** with the tuba, the weight of the three instruments used made me treat them as one. I wrote all sounds simultaneously, knowing that no instrument would ever be too far behind or too far ahead of the other. Through thinning and thickening my sounds I kept the image intact. In **DURATIONS IV** there was a combination of both. Here I was a little

Morton Feldman b.1926

Free spirit. No college. Tough life in a points factory.

Composed at right. Early 50's incredible school of art.

Appellent around with These guys - That was his school.

Very bad vision. 10/5 Very bad vision.

Doesn't change. My His music for the past 20 years hasn't changed. Has a "set thing" His vision.

Piezes since 1950 have all been quiet. Very quiet. Brause his eyes are bad? Most composers use planissions to contrast effect. For Feldman, it is his world. His pieces change your whole environment: "as quiet as possible" on the score.

Cage as a knife: Feldman as a mirror: Wolff as a laby rinth. Vice wonderful pieces for piono, two pianos. Indeferminate speed or rather: same score for each player, each player determines his own speed. Complexit, from a simple score. → Christian Wolff in Cambridge, Morty Feldman, 1967a68 written for Lucier and his chorus. form is simple and beautiful: A A' . His two trips to Eambridge to see Wolff, who had changed so little. two events, two teens changes , a A at The beginning of A' and a small <> Mirror No text given Lucier used "open mouth n" Conservative No continuity in chards. Conductor chooses tente clustions feeling out energies; pay territic attention to the sound, rather then countincity. Chorus turns inward, Such a beautiful pièce. Check it out: with sin and/on Audio test record. Silent grooves altered to no book

NEW DIRECTIONS IN MUSIC 2/

Extensions 1 for Violin and Piano (1951)

Structures for String Quartet (1951)

Projection 4 for Violin and Piano (1951) (graph)

Extensions 4 for Three Pianos (1952-1953)

Intersection 3 for Piano (1953) (graph)
Two Pieces for Two Pianos (1954)
Three Pieces for String Quartet (1954-1956)
Piece for Four Pianos (1957)

The last ten years have seen American composers, painters and poets assuming leading roles in the world of international art to a degree whole cultural milieu has changed and is still changing. The "climate" for receptivity to the new in art has improved correspondingly, and one of the most important aspects of this change has been the inter-involvement of the individual arts with one another. Public interest in the emergence of a major composer, painter or poet has, in recent years, almost invariably been preceded by his recognition among other painters, poets and musicians. The influence of esthetic ideas has also been mutual: the very extremity of the differences between the arts has thrown their technical analogies into sharp relief. As an example of what I mean by this, we find that making the analogy between certain all-over paintings of Jackson Pollock and the serial technique of Webern clarifies the one by means of the other—a seemingly "automatic" painting is seen to be as astutely controlled by the sensibility of Pollock in its assemblage of detail toward a unified experience as are certain of Webern's serial pieces. And it is interesting to note that initial public response to works by both artists was involved in bewilderment at the seeming "fragmentation" of experience. Although these analogies cease to be helpful if carried too far, it is in the framework of these mutual influences in the arts that Morton Feldman could cite, along with the playing of Fournier, Rachmaninoff and Tudor and the friendship of John Cage, the paintings of Philip Guston as important influences on his work. He adds, "Guston made me aware of the 'metaphysical place' which we all have but which so many of us are not sensitive to by previous conviction."

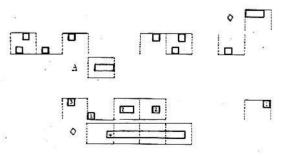
I interpret this "metaphysical place," this land where Feldman's pieces live, as the area where spiritual growth in the work can occur, where the form of a work may develop its inherent originality and the personal meaning of the composer may become explicit. In a more literal way it is the space which must be cleared if the sensibility is to be free to express its individual preference for sound and to explore the meaning of this preference. That the process of finding this metaphysical place of unpredictability and possibility can be a drastic one is witnessed by the necessity Feldman felt a few years ago to avoid the academic ramifications of serial technique. Like the artists involved in the new American painting, he was pursuing a personal search for expression which could not be limited by any system.

This is in sharp contrast to the development of many of Feldman's European contemporaries, for example Bordal and Stockhausen, whose process has tended toward elaboration and systematization of method. Unlike Feldman's their works are eminently suited to analysis and what they have lacked in sensuousness they invariably may regain in intellectual profundity and in the metaphysical implications of their methods. But if we speak of a metaphysical place in relation to Feldman, it is the condition under which the work was created and which is left behind the moment a given work has been completed.

Feldman's decision to avoid the serial technique was an instinctive attempt to avoid the

clichés of the International School of present day yant-garde. He was not to become an American composer in the historical-reminiscence line, but to find himself free of the conceptualized and self-conscious modernity of the international movement. Paradoxically, it is precisely this freedom which places Feldman in the front rank of the advanced musical art of our time.

A key work in the development away from serial technique is the Intersection 3 for Piano (1953). A graph piece, it is totally abstract in its every dimension. Feldman here successfully avoids the symbolic aspect of sound which has so plagued the abstract works of his contemporaries by employing unpredictability reinforced by spontaneity—the score indicates "indeterminacy of pitch" as a direction for the performer. Where others have attempted to reverse or nullify this aural symbolism (loud-passion, soft-tenderness, and so on) to free themselves, Feldman has created a work which exists without references outside itself, "as if you're not listening, but looking at something in nature." This is something serialism could not accomplish. This freedom is shared by the performer to the extent that what he plays is not dictated beyond the graph "control"—the range of a given passage and its temporal area and division are indicated, but the actual notes heard must come from the performer's response to the musical situation. To perform Feldman's graph pieces at all, the musician must reach the metaphysical place where each can occur, allying necessity with unpredictability. Where a virtuoso work places technical demands upon the performer, a Feld-man piece seeks to engage his improvisatory collaboration, with its call on musical creativity as well as interpretative understanding. The performance on this record is proof of how beautifully this can all work out; yet, the performer could doubtless find other beauties in Intersection 3 on another occasion.



Projection 4 for Violin and Piano (1951) explores an entirely different area of musical experience. A graph piece also (see illustration), its marvellous austerity is achieved mainly through touch, and I will quote the note to the performer as an example of how the individual area of experience in these graph pieces is indicated to the performers:

NOTE:

the violin part is graphed above that for the piano. Dynamics are throughout equal and low.

For the violinist:

Timbre is indicated: ♦ = harmonic; P =

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MASTERWORKS



MORTON FELDMAN

David Tudor, Russell Sherman, Edwin Hymovitz, Pianists; Matthew Raimondi and Joseph Rabushka, Violinists: Walter Trampler, Violist; Seymour Barab, Cellist

pizzicato; A = arco. Relative pitch (high, middle, low) is indicated: $\mathbf{T} = \text{high}; \; \mathbf{T} =$ middle; $\mathbf{n} = low$. Any tone within the ranges indicated may be sounded. The limits of these ranges may be freely chosen by the player. Multiple stops are indicated by numbers within the squares. Duration is indicated by the amount of space taken up by the square or rectangle, each box (: being potentially 4 icti. The single ictus or pulse is at the tempo of 72 or thereabouts. For the pianist:

The 💠 indicates playing without sounding (for the release of harmonics). Pitches, their number and duration are indicated as for the violinist.

A comparison of these two graph pieces, whose ambiances are so totally dissimilar, gives an idea of the great compositional flexibility possible with graph notation.

Unpredictability is used in a different way still in the Piece for Four Pianos (1957). This work, scored in notation rather than graph, begins simultaneously for all four pianos, after which the following notes may be played to the end by each of the planists at time intervals of their mutual or individual choice. Feldman has said. "The repeated notes are not musical pointillism, as in Webern, but they are where the mind rests on an image—the beginning of the piece is like a recognition, not a motif, and by virtue of the repetitions it conditions one to listen." As we proceed to experience the individual time-responses of the four pianists we are moving inexorably toward the final image where the mind can rest, which is the end of the piece. In this particular performance it is as if one were traversing an enormous plain at the opposite ends of which were two huge monoliths, guarding its winds and grasses.

In all of Feldman's recent work the paramount image is that of touch—"the use of the instrument must be as sensitive as the application of paint on canvas." (Which brings us back to Rachmaninoff, Fournier and Tudor.) In some pieces the entrance into the rhythmic structure is left entirely to the performer, and it is in this area that unpredictability enters and the performer must create the experier , within the limits of the notation.

On the other hand, one of the most remarkable pieces recorded here is Structures for String Quartet (1951). It is a classical string quartet without sonata development, without serial development, in general without benefit of clergy. Like Emily Dickinson's best poems, it does not seem to be what it is until all questions of "seeming" have disappeared in its own projection. Its form reveals itself after its meaning is revealed, as Dickinson's passion ignores her dazzling technique. As with several other Feldman pieces, if you cannot hear Structures, I doubt that studying the score would be a help, though it is a thoroughly notated field of dynamic incident, whose vertical elements are linked by a sort of shy contrapuntal stimulation of great delicacy and tautness.

In an oeuvre which so insistently provides unpredictability with opportunities for expansion and breath, the question of notation at all arises, for the graph would seem to provide an adequate control for the experience and a maximum of differentiation. But differentiation is not Feld-man's point, even in the graph music: the structure of the piece is never the image, nor in eschewing precise notation of touch is Feldman leaving the field open for dramatic incident whereby the structure could become an image (as in Boulez). Notation is, then, not so much a rigid exclusion of chance, but the means of preventing the structure from becoming an image in these works, and an indication of the composer's personal preference for where unpredictability should operate. As John Cage remarked in this connection, "Feldman's conventionally notated music is himself playing his graph mu-' And of course the degree of precision in the notation is directly related to the nature of the musical experience Feldman is exposing. This notation can be very precise, as in Extensions 1 for Violin and Piano (1951), which indicates an increasing tempo of inexorable development from beginning to end by metronomic markings, as well as the dynamics and expressive development.

Although the traditionally notated works are in the majority on this record (Extensions 1, Structures for String Quartet, Extensions 4, Two Pieces for Two Pianos, Three Pieces for String Quartet), I have gone into the use of unpredictability in this music at such length in order to reach a distinction about its use in much contemporary music. In Feldman's work unpredictability involves the performer and the audience much in the same way it does the composer, inviting an increase of sensitivity and intensity. But in much of the extreme vanguard music in America and Europe, particularly that utilizing tape and electronic devices along with elements of unpredictability, the statistical unpredictability has occurred in the traditional manner during the making of the piece; it has been employed preconceptually as a logical outgrowth of serial technique, and it is dead by the time you hear it, though the music is alive in the traditional season of bearing. What is alive in the traditional sense of hearing. What Feldman is assuming, and it is a courageous assumption, is that the performer is a sensitive and inspired musician who has the best interests of the work at heart. This attitude leaves him free to concentrate on the main inspiration area where the individual piece is centered.

What he finds in these centers—whether it is the sensuousness of tone and the cantilenalike delicacy of breathing in Three Pieces for String Quartet (1954-56), or the finality of the "dialogues" in Extensions 4 for Three Pianos (1952-53)-is on each occasion a personal and profound revelation of the inner quality of sound. The works recorded here already are an important contribution to the music of the 20th Century. Whether notated or graphed, his music sets in motion a spiritual life which is rare in any period and especially so in ours.

FRANK O'HARA

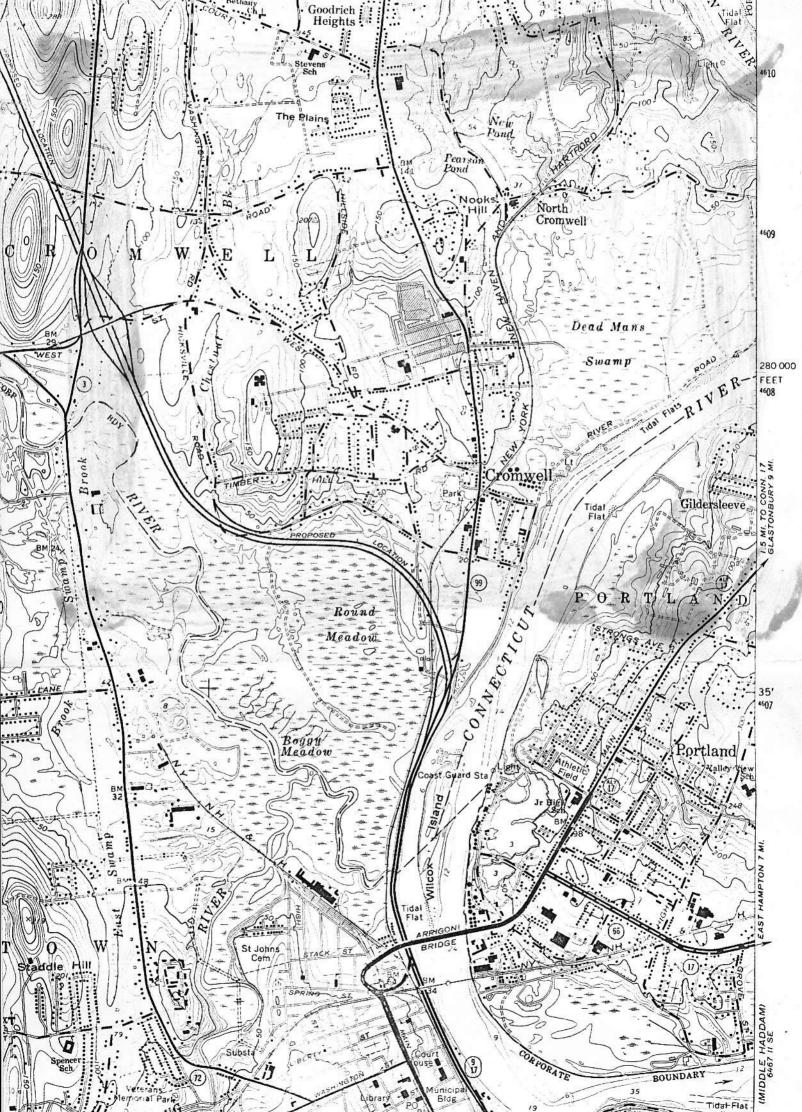
Library of Congress catalog card number R59-1329 applies to this record.

16/7	Jor Chorus and Instruments II, with Tuba and chimes, 196708 really nice . Piece for Four Pianos, 1957 phase as electronic concept (vs. "rhythmic disjunction"); reverboration.
	Donator Dine 1957
No.	share as plantum's coment (us "the thing disjunction"); feverboration.
	praise as frechorice control cost in and the cost in and
	- Thomas of Burning K 1969 - Bull Asian and English is
10/10	More music. Marty Feldman.
	Hore music. Most, teldman. 4 gu, s in old american Aunit Garde: Cage, Feldman, Earl Brown, Christian Wolff. Feldman and Brown very closely conuncted with art, The painters, Feldman and Philip Gustane
	Feldman and Bown verx closely conunected with art, The painters,
	Feldman and Philip Gustano
	to be actioned
	Passions of the 19th century are trind of tunny now.
	(a. a. M. issee : accortance : contemposes ; ded
	Cage: Divorce: acceptance: contemporary idea Emotional value of intervals: Work like mad to avoid it/them. Fill a stable of order as a contemporary idea.
	Feldman and graphic scoves.
	-> Intersection #3 for Piano, graph piece, 1953. David Tudor.
	last love piece
	- The translation of the state
	-> Structures for String quartet, 1951
	Made Provide
	-> Projection #4 appah siere 1951 toppione and violin.
	→ Projection # 4, graph piece, 1951, toppiano and violin. Sharmonic; Prizzicato: = hi, I middle, = 10; numbers for # of stops; space for duration (in
	icti (beat); 72 per min)
	(max) (per min)
	Attack and decay are so important
	Attack and decay are so important. Metaphysical place. rs. stealing
	7 4 1001 1 1000 100

Check of out: I premise Canon: A | Anm2 | whole note | Anm3

> The Swallows of Jalangan, inspired by passage by Boris Pastornach 19/12 chorus +orchester (lots of winds, no violins a violas, two pianos, vibraphores). ever, bod, goes atown speed, Bo in the center of the piece; everyone has to play/sing it. 35 instruments. Thick. Alvin and the Brandeis chorus. Mininteson so, 1963 performance. Written c. 1960 -> King of Denmark, 1964, percussion and fingerlips [contrast of to Zyklus, by Stockhausen] Introverted Slide show 8 minutes 10/17 tamous goys who were Jackson Pollack earning a lot of more y Franz Kline NYCity action painters Willem de Koening tremendous output Jasper Johns Paris in the 205 Arshile Gorky Barnett Newman with the exception of Jasper Johns, hit the new style in = Their imidelle age "after more "traditional" painting Denver, Colorado, Jazz Musician, John Cage come and freatred him oil. Moved to N.Y.C. Earla Browne Close connection to art - Alexander Calder; Mobiles: Moving, changing art. Compose a score whose parts could change. Improvisatory. Started with graphs, Docember 52

+ December 52, Earl Browne Alvin and the chois at Town Hall 1963 (Suallows) 面 Woops - Earl Browne conducted it Sportunaiety, Strange < -> Available Forms 1/2/3/etc...... forms available Director selects which forms to take elements (pitch, timbre, dansity, etc.) from and conducts and weight them e **Θ** 8 8 € 20 € > From Here (1963) Choras and orchestra. Alvin and Brown conduct, Score? Tone clusters. Musical gestures, Fade ats/ins, Director as a Prima Donna - MGMiy < 10/19 I cot for Tabla. 10/24 Jax: that's where the problems of electronic music performance are found. Connections/misconnections/deconnections. System meeting system. Component into component. Thinking in terms of parts, seperation of Electronic environment in plugging things together, assembling components, Interpretation of Earl Browne score - visual with physically, whole world with no distinctions on exploitations. Take it into a different redm, no associations with reality here - another planet Superimpose systems, one on the other: no connections Artificial superimposition of ideas on sound. Visual control of art written music. Dance (Adzenya last Friday night) Purposes.



A	
9	
4	
4	T. I. I william on a fallipeant
•	Instruments as physical objects from environment. Hud. ble sounds
9	on things that exist anyway
	Connection triver : very strong old important influential Intellectualizing
	house it doesn't mean that on the page. Alvin ance explored the
	Connecticut river: very strong old, important, influential, Intellectualizing, because it doesn't mean that on the page. Alvin ance explored the source of it: taped the pitch tone of the stream at different places;
	trined it with dams. We are alienated
	-> Projecto grocery list blues. Deal with every visual symbol,
	Voice. Also look at maps)
5	Roal Comment work place to can employ to the a very work with
10/26	Alan Kaprow - happenings:
5	
10/31	Computer Cookbook Energy recipes
5	Everay recipes
5	Texture de la company de la co
2	> Design something for TV thing pre-thanbisgiving
5	The state of the s
3	Nam June Paik - documentary on Cage with Alvin statering for 30 minutes as the interviewed-academic. Shigeko kubota - Cage Thing and some other stuff (5 or 6)s.
7	30 minutes as the interviewed-academic.
5	Shigeko Kubota - Cage thing and some other stuff (5006)s.
	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	I last of the old Avant Garge, The hard-to-like & Christian Wolff 16 years old when he met Cage; wanted to study composition — early 1950's, Greek expert, considers himself an amateur composer. Gage assignment.
	The years old when he met lage; wanted to study composition - During
	1960's, Greek expert, considers nimber an amaren composer, wage assignment
	make a 20 minute piece with three roles. Complex relationships — extension of sen German/austrian serialists.
-	COMPLEX AFTER INTERIOR - FEL ONISION OF THE PROPERTY.

Made real chamber music — more personal, complex than orchestral
stiff. Entwined. New idea Though - cybernetics (organism self-control by
feedback) — of group control, removal of composer. Also: Zerotime:
no time continuum (A+B), but point to point. Combined effect; example
to explain: play short high note when you here a short low note >> or the idag
of: rules in pièce, listening, reacting, self-control.

Score: for two four, on eight players — Pairs: Eight pails composed vertically
(8 port "harmony") but can be played (by 2 or 4) in a more linear
fashion.

Real chamber music — players can control it, within a framework.

Tor one two, on three players, Christian Wolfe, for one player.

David Tuclor, on a little detined baroque organ, Prepared.

Superimposition of two performances: I be played the organ, I be
crawled around inside it.

Crawled around inside it.

The realization: David Tudoro brothe down the barriers between composer and performer. At one time, the greatest pianist in the world. (ould play still that was technically impossible - Boulez's Sanata. Helped Cage enormously.

physical phenomerona: bowing a plate of metal, plate vibrates, Sand shows the vibration, demonstrates sound. The harmonics. 11/2 players: self-created scope - aim for an image, try to create it or improvise - image is their collective image. alchemy: base idea : transform low material into goldo essences material. something to do with the way we compose, exploring physical phenomena, essences. Alchemy - marxism plate. 4 transducers [Latlayette wall Thingies] . sound connected to physical reality. does work moves sand into images. has been done with singer(s), violinist. electionic instruments because: capable of producing very simple sounds, continual sounds. better exploration of images. tantastic. The Queen of the South - alchemical expression

pl

FOR 1, 2 OR 3 PEOPLE in IX, where any of the eve not repeating anything;

Each part, or page, is a score, and each player should

of any number of them, repeating note, or of they one, repeated to

White notes are of any length, sometimes determined by the rest. (continued from page 2) A dynamic indication may stand by itself (as at left top

more than ten times.

met = a sgund using metal (generally of low resonance; met = a higher resonance)

wd = a sound using wood (generally of low resonance; wd = a higher resonance)

t = a sound made by tapping or touching or tracing or the like

b = a sound made by breathing or blowing or the like (but not singing)

fr = a sound involving friction

pl = a sound involving plucking or pulling

sn = a sound involving snapping

stret = a sound involving stretched material

In parts V-X notations such as the following not standing by a note are to be applied to any sound on that page, whether produced by oneself or another player.

≈ a slight alteration of a sound = bekup, hold till it stops.

A = cut off a sound

-> = extend a sound

= raise a sound in some respect

= lower it in some

Christian Wolff

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There are ten parts, one to a page. A performance can be made of any number of them, repeating none, or of any one, repeated no more than ten times.

Each part, or page, is a score, and each player should have his copy of it.

Play all that is notated on a page, in any convenient sequence, not repeating anything; except in IX, where any of the events can be played or omitted any number of times.

Black notes are variously short, up to about one second. With stems as sixteenth notes (e.g. in III, etc.) they are very short. White notes are of any length, sometimes determined by the requirements of coordination (see further on).

A dynamic indication may stand by itself (as at left top of I): assume a note to go with it or apply it to any note given on the page. However > or <, standing by themselves, should always be applied to a note (any one) already given.

A diagonal line towards a note = play that note directly after a preceding one. A diagonal line away from a note = that note must be followed directly by another.

A vertical line down from a note = play simultaneously with the next sound (both attack and release).

A small number at the end of a line (e.g. at left top of I) = coordinate with the second (if the number is 2; third, if 3; etc.) sound, preceding (if diagonal line towards note), following after one has begun one's note (if diagonal line away from it), or play simultaneously with the second next sound (if the line is vertical).

If a line to a note is broken by a number followed, after a colon, by a zero (-2:0-) (e.g. top middle of III), that number of seconds of silence intervene before the required coordination.

And at the end of a line (e.g. middle left in I) = coordination must be with a sound made by another player. If only one person is playing, he must coordinate either with a sound he hears in the environment or with a sound he has himself made unintentionally.

= play after a previous sound has begun, hold till it stops.

= start anytime, hold till another sound starts, finish with it.

= start at the same time (or as soon as you are aware of it) as the next sound, but stop before it does.

= start anytime, hold till another sound starts, continue holding anytime after that sound has stopped.

que (m)

Horizontal lines joining two notes = a legato from the one to the other (both played by the same person).

If no line leads to a note or drops vertically from it, one can start to play at any time. If no line leads away from a white note, it can last as long or as short as you like.

One, two or three people can play. If one plays alone, he must realize all "open" coordinations (lines with notes at only one end) himself, that is, he must use other notes given on a page, as he can, to provide something to coordinate with; or, sometimes, he may use sounds from the environment [as he must when there is an & at the end of a line]). (He may in some cases have to rearrange the material on a page and consider a disposition of it which will ensure that all the required coordinations can be managed.) All the material on a page can be freely superimposed, so long as the requirements of coordination are met.

If two or three play, the material on a page should be distributed between them, in any way (in VII a distribution for two players is indicated); but no material marked off for one player should be played by another (note: this holds for IX too). Coordination, then, for each player can be either with his own material (as if he were playing alone)--unless there is an d --or with whatever sound(s) he hears next from another player (or both).

Players can use any ways of making sounds, allowing for the following specifications:

Some notes are on staves: play the indicated pitch (reading either bass or treble clef; sound at pitch; if pitch not available in range, transpose at least two octaves; short lines off a pitch at an angle = fraction of a tone less than half up where line angles up, down where down).

Where no pitches specified, they are free (recognizable or not).

Larger numbers directly over a note: if black = that number of tones (not necessarily played together unless bracketed, 2); if red number = that number of timbres. No number = one (e.g. 2 = two tones, one timbre; 0 = one tone, two timbres).

Larger numbers on a line between notes: if black = that number of

Larger numbers on a line between notes: if black = that number of changes of some aspect(s) of the sound before reaching the next note; in red = that number of changes of the timbre of the first note before reaching the next one.

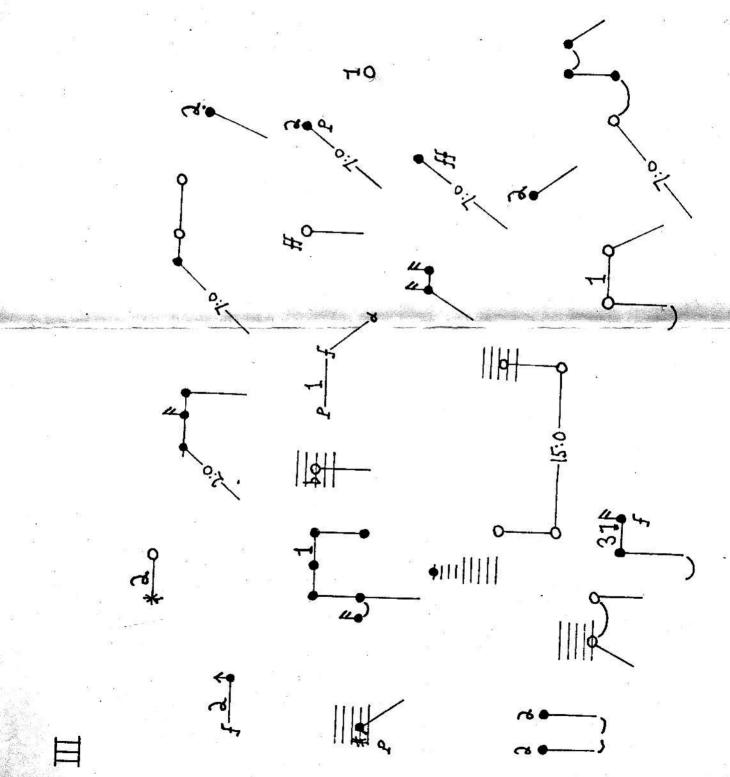
A red number 1 over a note = use a different timbre from the one immediately preceding.

= a high in some = a low in some = a sound in a middle place, in some respect, of the sounds around it.

△, ▲ = a sound in some re- ◇ = a harmonic asp. = 'as possible' spect dissonant with what immediately precedes

= a sound as far away as possible, in some aspect, from what immediately precedes it extreme

(continued on title page)



11/1 difficult. com plex. instruments - chamber music - notes electronics. intimacy tinterplays interested in situation, cues, dependent decisions, intricate interplays. Cybernetics - feetback control. Listillation of all the things people hours learn as instrumentalists/musicians. -> Duo for Violin and Piano + Duo for Prano and Horn + Prose pieces - for normal people it seems. Prepare The score for Thursday. Sticks, Stones, Play - bring objects Think about cartridge music tobjects of it.

Play

Play, make sounds, in short bursts, clear in outline for the most part; quiet; two or three times move towards as loud as possible, but as soon as you cannot hear yourself or another player stop directly. Allow various spaces between playing (2, 5 seconds, indefinite); sometimes overlap events. One, two, three, four or five times play a long sound or complex or sequence of sounds.. Sometimes play independently, sometimes by co-ordinating: with other players (when they start or stop or while they play or when they move) or a player should play (start or, with long sounds, start and stop or just stop) at a signal (or within 2 or five seconds of a signal) over which he has not control (does not know when it will come). At some point or throughout use electricity.

Color version:

red; blue; white; green; yellow; black; silver; sharp, short sound; flat; silence; simpler relationships (1:2, 2:3, 3:4) mixed with less simple (5:6, 7:8); with breath or air; soft; long; thin or flourished.

Variable shades.

Colors need not be symbols for sounds, nor sounds for colors.

Consider making, sometime, a fabric with some design in it, but not in two dimensions.

Or, allow for the possibility of periodicities appearing, and disappearing (for instance, shortly on being identified, or immediately on being imitated, or within 3 or 7 seconds of a signal).

At some point drop two of the colors and two of the descriptions listed above; and shortly before finishing introduce five new ones.

Are musical sounds to other sounds as black and white is to color?
Are the colors necessary? Lights, painting confetti, the colors already there.
What about texture? Smooth, lumpy, gritty; streaks, powdered, smeared, even edged, trailing.

Colors are not to objects one sees as a sound quality to sounds one hears.

Or are they?

Stones

Make sounds with stones, draw sounds out of stones, using a number of sizes and kinds (and colours); for the most part discretely; sometimes in rapid sequences. For the most part striking stones with stones, but also stones on other surfaces (inside the open head of a drum, for instance) or other than struck (bowed, for instance, or amplified). Do not break anything.

done for

Sticks

Make sounds with sticks of various kinds, one stick alone, several together, on other instruments, sustained as well as short. Don't mutilate trees or shrubbery; don't break anything other than the sticks; avoid outright fires unless they serve a practical purpose.

You can begin when you have not heard a sound from a stick for a while; two or three can begin together. You may end when your sticks or one of them are broken small enough that a handful of the pieces in your hands cupped over each other are not, if shaken and unamplified, audible beyond your immediate vicinity. Or hum continuously on a low note; having started proceed with other sounds simultaneously (but not necessarily continously); when you can hum no longer, continue with other sounds, then stop. With several players either only one should do this or two or two pairs together (on different notes) and any number individually.

You can also do without sticks but play the sounds and feelings you imagine a performance • with sticks would have.

ur listen again: For... 11/9 For one Two or Three Players, David Tudors - prepared organ. (baroque little), two versions simultaneous, < note on Tudor > Improvization Abouter, Marricio tragel, for Organ, Albuge difficult piece. Todor started in choir, Thenogan, then met Cage, started contemporary music new music. Phantom of the opera. Exploits The instrument but this could be a sort of had thing. Wift, Thought. E Benjamin Franklin's string-quartet > Summer, for string quarteteno Ruth Crawford Seeger 1 like for 1,2, on 3 players (score) (principles) 1961 Complex coordinations, connections. extension and distillation of Bach: 11/14 how to put musical materials together (The Musical Offering of Bach). figure out the first couple of sounds. f pl Bring scores and materials for practice for carriage

WESLEYAN UNIVERSITY

DEPARTMENT OF MUSIC

presents

An Evening of Video Art and Electronic Music with Alvin Lucier, and Guest Artists Nam June Paik and Shigeko Kubota.

Tuesday, November 21, 1972 8:00 P.M.

Downey House Ballroom

Simultaneous performances of

Video Birthday Party of John Cage, No. 3

Shigeko Kubota

Europe on 1/2 inch a day

Impasse of Infidelity

Marcel Duchamp and John Cage

Video Art

Nam June Paik

The Green of the South (1972)

Alvin Lucier

for players, responsive surfaces, strewn material and closed-circuit television monitor system. As the strewn material responds to the musical sounds in the vibrating medium, making patterns, the performers either make pre-determined figures or discover their collective imagery.

Cartridge Music (1960)

John Cage

(amplification of small sounds)

Video Consultant: Bob White

Technical Consultant: Ron Goldman

Performers:

Alexander, Steven Bohn, David H. Bohomnon, Kenneth W. Button, Terry F. Celeste, Michael J. Coff, Richard S. Coker, Edwin L. Collins, Nicolas B. Cruickshanks, Donald A. Driscoll, Ellen Duncan, Ann S. Duncan, Bruce C. Eager, George B. Forster, James R. Fusci, Raymond A. Gilmore, Samuel L. Gorn, Steve Greenberg, Laurence P.

Grilli, Stephen J. Hackett, Raymond A. Judge, Tom S. Leganza, Richard L. Lehrhoff, Michael B. Lewis, Barbara A. Litwak, Howard D. Mcardle, Peter D. Monfort, Jose A. Montalvo, Daniel J. Plettner, David H. Richardson, Robert K. Rousseau, Thomas J. Sanchez, Edwin R. Smith, Steven A. Suleske, Robert T. Whiting, David S. Young, David B.

JOHN CAGE

on nam june paik's "Zen for Film" (1962-64)

On the nature of silence: Well now, you know that I've written a piece called 4'33", which has no sounds of my own making in it, and that Robert Rauschenberg has made paintings which have no images on them--they're simply canvases, white canvases, with no images on them--and Nam June Paik, the Korean composer, has made an hour-long film which has no images on it. Now, offhand, you might say that all three actions are the same. But they're quite different.

The Rauschenberg paintings, in my opinion, as I've expressed it, become airports for particles of dust and shadows that are in the environment.

My piece, 4'33", becomes in performance the sounds of the environment.

Now, in the music, the sounds of the environment remain, so to speak, where they are, whereas in the case of the Rauschenberg painting the dust and the shadows, the changes in light and so forth, don't remain where they are but come to the painting. In the case of the Nam June Paik film, which has no images on it, the room is darkened, the film is projected, and what you see is the dust that has collected on the film. I think that's somewhat similar to the case of the Rauschenberg painting, though the focus is more intense. The nature of the environment is more on the film, different from the dust and shadows that are the environment falling on the painting, and thus less free.

University of Cincinnati. 1968

"Cinema Now"
(edited by H. Currie and M. Porte)

N.B. Dear John:
The nature of environment is much much more on TV than on film or painting.
In fact, TV (its random movement of tiny electrons) IS the environment of today.

N.J.P. (1971)

European tradition in America (orchestra, symphony) countered 11/28 by American music of Cage, Fedman, Brown,
1952 - Cage's first tape piece, Colon (Köln) first real
classic electronic studio () Paris 1958, Musique Concrete, lots of film music, Pierre Schaeffer, Pierre Henry - state supported I Symphony for one May Solo] Kiola - electronic instruments (Sound sources) and processing. Classic studio: bank of oscillators (usually 12, 1 for each note of the scale yop) morning my MILL filters: high pass, low pass, band pass, notch (band reject) - band pass was most important, albiss filter-multiband. White noise generator. Tape. Mike, Record: "Sound sources, Processing: reverb - very boring except... Envelope generator. Ring modulator. Tape recorders.
Making material for piece. Tune the oscillators to your own timbre, Karmonic/enharmonic series, take segments. Then do the same with fillers and other stuff. Put the pieces tagether, generale nifty things. Change speeds Thousands of splices. Karlheinz Stockhausen - study with sine tores maves * Studie I - Stockhausen, graph score, envelopes and reverb abound. enharmonic constructions variable speed tape Then did Studie 2, with othe sounds, The Gesang der Junglinge 1 - electronic sounds and bo, soprano, "Quite spectacular! Voice, filter, reverb, electronic sounds, apocalyptic text, five channels, confusion between elements. + Gesang der Junglinge 1

a book: Pavilian, published E.P. Dutton. 11/30 Experiments in Art and Technology - E.A.T - clesiqued audio-visual pavilion for Pepsi at Expo in Japan, 20 artists and 20 Engineers, Programming for a month. New artists every week. Lots of money from Pepsi, but they didnit like it changing all Stockhausen. from the strict German studio thing. The most popular word was "control" don't rely an performence Then was Americanized and found his gary (tom.tam) Wrote Mitrotonie I: 6 players: two players, two directionalmicrophoners two bandpiss-potentioneterers. At first improvised, then scored with following ideas: halfway between strict score and incleterminacy - he still has control; relationships/tension (Netween groups) makes art (unlike Cage); notation for Osimilarity 1 opposites & slartsimilar, then go far away > Mikrofonie I . Cage in Landscape #3, used Three A.M radios, 6 players, score, director/conductor - like going Through a dense or bon environment on beach. Stock houses did Shortnave. -> Kurz wellen, for radios and instrumentalists, shortmove. -> Telemist. Tape collage, of all different music, done in japan. Frucessed a lot -Luciano Berio. Started electronic studio in Milane + Circles, soprano, harp, drums, Text of E.E. Cummings (James Joyce splices words and phrases. Composers (electronic) love him. Fragmentation of the multi-channeled experience. We are pioneers.