

michael
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the
nature
of
intelligent
life
is
to
destroy
itself

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for
orchestra

the nature of intelligent life is to destroy itself
 a senior thesis in music composition
 by michael gancz

instrumentation:

3 flutes
 2 oboes
 2 clarinets
 2 bassoons
 4 horns in F, each with a crystal glass tuned to C
 3 trumpets in Bb, each with a crystal glass tuned to C
 2 tenor trombones
 1 bass trombone
 1 tuba
 3 timpani
 bass drum
 water gong or submersible tam-tam (32" or larger)
 taiko drum or floor tom
 crotales
 tubular bells
 glockenspiel
 marimba
 vibraphone
 harp
 piano
 celesta
 strings

performance notes:

x noteheads indicate special playing techniques with indeterminate pitch
 triangle noteheads indicate the highest pitch available on one's instrument
 box notation indicates cells to be repeated
 lines with arrowheads indicate continuous transformations in technique

horns and trumpets are provided with crystal glasses to play with their fingers; in certain sections of the piece, these players are also asked to buzz their mouthpieces with one end submerged in the glass; if needed, this technique can be demonstrated by the composer

crystal glasses should be set on stools in between each french horn and trumpet player

mm. 117 allows players to improvise; it is encouraged that the instructions for that section be read and understood in advance of rehearsal and recording

flute whistle tones should be played as flitting harmonics of the written fundamental

woodwind key clicks should sound with hints of pitch

string glissandi should be smooth and even unless otherwise specified

tongue stops are produced by bringing the tongue in between the teeth in order to stop one's airflow with an audible semi-pitched pop

program notes

we live alone in an infinite universe
enrico

i smell fire & both my socks are wet & all my friends are dead
and there is age and lung rot and abandon bubbling up around

and fuck

if i was raised to think there's any other way to solve this paradox

the nature of intelligent life is to destroy itself

michael gancz

12-11-21

new haven, connecticut

the nature of intelligent life is to destroy itself

michael gancz

sparse, twinkling $\text{♩} = 50$

Flute 1: 2, key clicks with air, **Flute 2**: 6, key clicks with air, **Oboe 1**, **Oboe 2**, **Clarinet in B♭ 1**, **Clarinet in B♭ 2**: **ppp**

Horn in F 1, **Horn in F 2**, **Horn in F 3**, **Horn in F 4**: **air**, **Trumpet in B♭ 1, 2, 3**: **pp**, **Trombone 1**, **Trombone 2**, **Bass Trombone**: **pp**, **tongue stop**

Tam-tam: **secco**, **Crotales**: **mp**, **Glockenspiel**: **mp**, **Vibraphone**: **arco**, **p**

Violin Ia, **Violin Ib**, **Violin IIa**, **Violin IIb**: **non vib.**, **wide vib.**, **smooth gliss**, **Violin Ia**, **Violin Ib**, **Violin IIa**, **Violin IIb**: **f**, **(approx. pitch)**, **Violin Ia**, **Violin Ib**, **Violin IIa**, **Violin IIb**: **f**, **(approx. pitch)**, **Violin Ia**, **Violin Ib**, **Violin IIa**, **Violin IIb**: **f**, **(approx. pitch)**, **Violin Ia**, **Violin Ib**, **Violin IIa**, **Violin IIb**: **f**, **(approx. pitch)**, **Violin Ia**, **Violin Ib**, **Violin IIa**, **Violin IIb**: **f**, **flaut.**, **msp.**, **Violoncello a**: **behind the bridge**, **Violoncello b**: **behind the bridge**, **f**

32

Crot. 4

Tub. B. 5 2

Glock. 6 3 soft mallets

Vib. 7

Hp. 8

Pno. 9

espr. 10

soft rubber mallets 11

secco 12

mp 13

ppp 14

=

8

Hn. 1 crystal glass 9

Hn. 2 crystal glass 10

Hn. 3 crystal glass 11

Hn. 4 crystal glass 12

Tpt. 1, 2, 3 crystal glass 13

Tim. 14

Crot. soft mallets con sord pp

Tub. B. fppp

Glock. soft rubber mallets fppp

Vib. soft mallets fppp

Hp. flaut.

8

Vln. Ia R.H.: drum index and middle fingers sul IV
L.H.: gliss 15

Vcl. p

Vc.a pizz con sord – allow sound to fade out naturally 16

Vcb (sul IV)

pp

15 air

16

Hn. 1 tongue stop

Hn. 2 tongue stop

Hn. 3 tongue stop

Hn. 4 tongue stop

Tpt. 1, 2, 3 tongue stop

Tbn. 1 tongue stop

Tbn. 2 tongue stop

B. Tbn. tongue stop

Crot. LV

Glock. LV

Vib. with vibr.

Cel. p

16

Vln. Ia msp

Vln. Ib flaut. msp

Vln. Ila flaut. msp

Vln. IIb flaut. msp

Fl. 1
 19 - 20 - 21 (a 2) - 22 **4**
 Fl. 2 - - - - **2**
ppp - - - - *p*

23
 Crot.
ppp - - - - *p*

Tub. B. *soft mallets*
ppp - - - - *p*

Glock.
ppp - - - - *p*

Vib. *fppp* - - - - *p* *with celesta* *mp* 6

Hp. *p* - - - - *mp*

Pno. *p*

Cel. *p* *with vibr.* *mp* 6

Vln. Ia *flaut.* → *msp* **4**
p

Vln. Ib *flaut.* → *msp* **3**
p

Vln. IIa *flaut.* → *msp* **4**
p

Vln. IIb *flaut.* → *msp* **3**
p

53

Hn. 1

Hn. 2

Hn. 3

Hn. 4

Tpt. 1, 2, 3

Tbn. 1

Tbn. 2

B. Tbn.

Tba.

Tim.

T.t.

Crot.

Tub. B.

Glock.

Hp.

Vln. Ila

Vln. Iib

Vla.

Vc.a

Vc.b

Cb.

54

55 mouthpiece submerged in water soft bubbling effect - ind. pitch

56

mouthpiece submerged in water soft bubbling effect - ind. pitch

mouthpiece submerged in water soft bubbling effect - ind. pitch

mouthpiece submerged in water soft bubbling effect - ind. pitch

mouthpiece submerged in water soft bubbling effect - ind. pitch

mouthpiece submerged in water soft bubbling effect - ind. pitch

fp

fp

fp

fp

fp

fp

fp

f

p

soft mallet
1/2 submerged in water tank

secco

bisb.

ppp

RH: drum index and middle fingers sul IV
LH: gliss

p

RH: drum index and middle fingers sul IV
LH: gliss

p

RH: drum index and middle fingers sul IV
LH: gliss

p

arco

fp

f

arco

fp

f

arco

fp

f

57 4
58 2
59 3
60
61

Hn. 1
p

Hn. 2
p

Hn. 3
p

Hn. 4
p

Tpt. 1, 2, 3
p

59

T.t.
ord.

Crot.

Glock.

Mar.

with harp
espr.

mp

sim.

Hp.

with marimba
espr.

mp

sim.

Pno.

inside the piano – scrape
with thumb flesh, very subtle

pp

Vla.

4
2
3
2

59

Vc.a

Vc.b

13

64 2+2+3

7 key clicks out of time **4**

65 **3** **2**

listen for clarinet countermelody 67

Fl. 1

Fl. 2

Ob. 1

Ob. 2

Cl. 1

Cl. 2

Bsn. 1

Bsn. 2

Hn. 1

Hn. 2

Hn. 3

Hn. 4

pt. 1, 2, 3

B. Tbn.

Tba.

64

7 **4** **3** **2**

Crot.

Glock.

Mar.

Vib.

Hp.

Pno.

Cel.

64

7 **4** **3** **2**

Vln. Ia

Vln. Ib

Vln. IIa

Vln. IIb

Vla.

Vc. a

Vc. b

Cb.

Fl. 1 *ord.* 68 69
Fl. 2 *mf*
Ob. 1 *mf*
Ob. 2 *mf*
Cl. 1 *mf*
Cl. 2 *mf*
Bsn. 1
Bsn. 2 *mp*

Hn. 1 *crystal glass*
Hn. 2 *crystal glass*
Hn. 3 *crystal glass*
Hn. 4 *crystal glass*
Tpt. 1, 2, 3
Tbn. 1
Tbn. 2
B. Tbn.
Timpani
Crot.
Tub. B.
Glock.
Vib.
Hp.
Pno.
Cel.
Vln. Ia
Vln. Ib
Vln. IIa
Vln. IIb
Vla. *fp*
Vc. a
Vc. b
Cb. *fp*

70 71 72 2+2+3 73 3 2 74 75

Vln. Ia *f*
Vln. Ib *f*
Vln. IIa *f*
Vln. IIb *f*
Vla. *fp* *f*
Vc. a *fp* *f*
Vc. b *fp* *f*
Cb. *fp* *f*

70 71 72 3 2 flaut. 73 2 flaut. 74 75

Fl. 1
Fl. 2
Ob. 1
Ob. 2
Cl. 1
Cl. 2
Bsn. 1
Bsn. 2
Hn. 1
Hn. 2
Hn. 3
Hn. 4
Tpt. 1, 2, 3
Tbn. 1
Tbn. 2
B. Tbn.
Tim. *soft mallets con sord*
T-t.
Crot.
Tub. B.
Glock.
Mar.
Vib.
Hp.
Pno.
Cel.
Vln. Ia
Vln. Ib
Vln. IIa
Vln. IIb
Vla.
Vc.a
Vc.b
Cb.

76 77 78 79 80 81 82 83

p *f*

mp *p* *f*

mp *p* *f*

p *f*

p *f*

air

triangle beater scrape *p*

ppp

mp *3* *5*

bisb. *ppp*

mp *3* *5*

pp *f* *msp*

pp *f* *msp*

pp *f* *msp*

pp *f*

pp *p* *(ord.)* *p*

pp *p* *(ord.)* *p*

pizz

15

Fl. 1 hum a rising gliss at indeterminate pitch

Fl. 2 hum a rising gliss at indeterminate pitch

Ob. 1 hum a rising gliss at indeterminate pitch

Ob. 2 hum a rising gliss at indeterminate pitch

Hn. 1 tongue stop *f*

Hn. 2 tongue stop *f*

Hn. 3 tongue stop *f*

Hn. 4 tongue stop *f*

Tpt. 1, 2, 3 tongue stop *f*

Tbn. 1 tongue stop *f*

Tbn. 2 tongue stop *f*

B. Tbn. tongue stop *f*

Tim. tongue stop

T-t. soft mallet
1/2 submerged in water tank → ord.

Pno.

Vln. Ia hum a rising gliss at indeterminate pitch

Vln. Ib hum a rising gliss at indeterminate pitch

Vln. IIa hum a rising gliss at indeterminate pitch

Vln. IIb hum a rising gliss at indeterminate pitch

Vla. hum a rising gliss at indeterminate pitch

Vc.a *f*

Vc.b *f*

Cb.

89

key clicks out of time

Fl. 1

Fl. 2

Ob. 1

Ob. 2

Cl. 1

Cl. 2

Bsn. 1

Bsn. 2

Hn. 1

f

mouthpiece submerged in water
angry hornet effect - ind. pitch

Hn. 2

f

mouthpiece submerged in water
angry hornet effect - ind. pitch

Hn. 3

f

mouthpiece submerged in water
angry hornet effect - ind. pitch

Hn. 4

f

mouthpiece submerged in water
angry hornet effect - ind. pitch

Tpt. 1, 2, 3

f

mouthpiece submerged in water
angry hornet effect - ind. pitch

Tbn. 1

f

mouthpiece submerged in water
angry hornet effect - ind. pitch

Tbn. 2

f

mouthpiece submerged in water
angry hornet effect - ind. pitch

B. Tbn.

f

Tba.

90

91

92

17

4

2

89

4
2

Tim. *ff*

B. D. *f*

T.-t. *f*

Taiko D.

Tub. B. *f*

triangle beater scrape

espr.

mf

Mar. *f*

ped. buzz

Hp. *f*

Pno. *f*

scrape

pp

94

Fl. 1 // **4**
Fl. 2 // **3**
Ob. 1 // **2**
Ob. 2 // **2**
Cl. 1 // **2**
Cl. 2 // **2**

Fl. 1: *mp*, *f*
Fl. 2: *mp*, *f*
Ob. 1: *mp*, *f*
Ob. 2: *mp*, *f*
Cl. 1: *mp*, *f*
Cl. 2: *mp*, *f*

94

T.t. // **4**
Crot. // **3**
Tub. B. // **2**
Glock. // **2**
Vib. // **2**
H.p. // **2**
Pno. // **2**

T.t.: *mp*, *arco*
Crot.: *soft mallets*, *mp*
Tub. B.: *LV*, *mp*
Glock.: *soft rubber mallets*, *mp*
Vib.: *mp*
H.p.: *mp*
Pno.: *mp*

94

Vln. Ia // **4**
Vln. Ib // **3**
Vln. IIa // **2**
Vln. IIb // **2**

Vln. Ia: *mf*, *f*
Vln. Ib: *mf*, *f*
Vln. IIa: *mf*, *f*
Vln. IIb: *mf*, *f*

99

Fl. 1
Fl. 2
Ob. 1
Ob. 2
Cl. 1
Cl. 2

Hn. 1
Hn. 2
Hn. 3
Hn. 4
Tpt. 1, 2, 3
Tbn. 1
Tbn. 2
B. Tbn.

Tim.
Crot.
Tub. B.
Glock.
Vib.
Hp.
Pno.
Cel.

Vln. Ia
Vln. Ib
Vln. IIa
Vln. IIb
Vc. a
Vc. b

100
101
102
103
104 **7** **3+2+2** **4** **3**
105 **2**

f *mp*
f *3* *3* *mp*
f *mp*
f *mp*
f *mp*
f *mp*

air *tongue stop*
f

99 *soft mallets con sord* **7** **3**

pp *soft mallets* *fppp* *p*
soft rubber mallets *fppp* *p*
soft mallets *fppp* *f* *p*
secco
p

99 **7** **3** **2**

p *flaut.* *msp*
p *flaut.* *msp*
p *flaut.* *msp*
p *flaut.* *msp*
p
RH: drum index and middle fingers sul IV
LH: gliss
pizz *con sord - allow sound to fade out naturally*
pp

106

Fl. 1

Fl. 2

Cl. 1
espr.
p

107

3 *p*

108

109

This section shows parts for Flute 1, Flute 2, Clarinet 1, and other instruments. Measures 106 and 107 show woodwind entries. Measure 108 features a sustained note from Clarinet 1. Measure 109 is a blank measure.

Hn. 1
crystal glass

Hn. 2
crystal glass

Hn. 3
crystal glass

Hn. 4
crystal glass

Tpt. 1, 2, 3
crystal glass

106

This section shows parts for Horns 1-4 and Trombones 1-3. All four horns play sustained notes labeled "crystal glass". Trombones 1-3 also play sustained notes in the same register.

106

Tub. B.

Vib.

Hp. 3 *f* G \flat

Pno. *mp* 3

Cel. *mp* 3

106

Vln. Ia
flaut. 3 *msp* *f*

Vln. Ib
flaut. 3 *msp* *f*

Vln. IIa
flaut. 3 *msp* *f*

Vln. IIb
flaut. 3 *msp* *f*

This section includes parts for Tubas, Vibraphone, Double Bass, Piano, Cello, and Violins. The Double Bass and Piano provide harmonic support with sustained notes. The Violin parts feature melodic lines with dynamic markings like *mp*, *f*, and *msp*.

113 hum a rising gliss at indeterminate pitch

Fl. 1 hum a rising gliss at indeterminate pitch

Fl. 2 hum a rising gliss at indeterminate pitch

Ob. 1 hum a rising gliss at indeterminate pitch

Ob. 2 hum a rising gliss at indeterminate pitch

Cl. 1 hum a rising gliss at indeterminate pitch

Cl. 2 hum a rising gliss at indeterminate pitch

Bsn. 1 hum a rising gliss at indeterminate pitch

Bsn. 2 hum a rising gliss at indeterminate pitch

Hn. 1

Hn. 2

Hn. 3

Hn. 4

Tpt. 1, 2, 3

Tbn. 1 ff

Tbn. 2 ff

B. Tbn. ff

Tba. ff

Tim. ff

B. D. ff

T.t. not submerged! bloom over everything LV ff

Taiko D. ff

Crot. ff

Glock. ff

Mar. ff

Vib. ff

Hp. fake this bit if you need to ff

Pno. ff

Cel. ff

Vln. Ia scream!

Vln. Ib scream!

Vln. IIa scream!

Vln. IIb scream!

Vla. ff scream!

Vc.a ff scream!

Vc.b ff scream!

Cb. ff

117

Semi-improvisatory section:
Repeat cells violently and quite loud for about 2 minutes total between mms. 117 and the end of 119.
Alter material as you see fit; use the notated material only as a guide. think of the orchestra collapsing under its own weight, yourself collapsing into your own human complexity.
Be noisy, furious, amelodic.
without getting softer, start resting more and more between cells.
By the cue at 118, play about once every 5 seconds. by the cue at 119, every 10 seconds.
The conductor will cue at 120 once the energy naturally dies down.

Fl. 1
Fl. 2
Ob. 1
Ob. 2
Cl. 1
Cl. 2
Bsn. 1
Bsn. 2
Hn. 1
Hn. 2
Hn. 3
Hn. 4
Tpt. 1, 2, 3
Tbn. 1
Tbn. 2
B. Tbn.
Tba.
117
Timp.
B. D.
T.-t.
Taiko D.
Crot.
Tub. B.
Glock.
Mar.
Vib.
Hp.
Pno.
Cel.
117
Vln. Ia
Vln. Ib
Vln. IIa
Vln. IIb
Vla.
Vc.a
Vc.b
Cb.

a tempo

120

121

122

122

124

Ob. 1

Cl. 1

Cl. 2

*mouthpiece submerged in water
soft bubbling effect - ind. pitch*

a tempo

120

1

2560

p

arco

20

6

1

1

1

1

1

2

1

1

1

1

20e:

1

1