

Matthew

Fountain

Effect and Cause

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For Tuba and Euphonium Quartet and Live Processing

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Performer's notes

Duration: ~4.5 minutes

Instrumentation: Tuba and Euphonium Quartet

Performance Notes

The piece is performed with live microphone input to Max7. One of the performers will be in charge of progressing the 18 different events in the patch via midi foot pedal. Instructions on using the Max Patch and microphone set-up are included in more detail within the Max Patch.

Set-up notes

Standard quartet staging. Each player will be close mic'd and have an ear-piece to receive the click track for movements 1 and 3. More detailed instructions on mic placement and the click are included in the Max Patch.

Program Notes

Effect and Cause is relatively self explanatory. Each movement was designed with an effect in mind, with the cause being the Tubas and Euphoniums. The first movement uses delay, and is based on eighth notes to create a feeling of perpetual motion. The second movement uses transposition. Each quartet member is playing the exact same note and relies on intonation and dynamics to move the piece forward. The last movement uses the previous 2 effects and adds distortion to create a driving, forceful finish, as is tradition in Tuba and Euphonium works.

For the Western Michigan University Tuba and Euphonium Quartet

Effect and Cause

i. Echolocation

Matt Fountain

♩ = 135

Euphonium 1

Euphonium 2

Tuba 1

Tuba 2

Electronics

$\frac{8}{4}$ $\frac{4}{4}$

fp *f* *p* *p* *f*

mf *sim.*

fp *f* *p* *p* *f*

fp *f* *p* *p* *f*

$\frac{8}{4}$ $\frac{4}{4}$

1/8 delay E.2
Start Click

2

7

p *mf espress.*

f *p* *mf*

sim.

mp *sim.*

mp

$\frac{8}{4}$ $\frac{4}{4}$

1/8 delay T. 1+2

3

13

f *8vb* *p*

sim.

p

p *mf* *p* *mf* *p*

f *mf espress.*

triplet delay E. 1+2

4

20

mf f p mf

> p f

f p mf

mf f p mf

triplet delay T. 1+2

sim.

5

rit.

f p

f p

f p

p

chorus effect
stop click

6

3 ii. Intonization

36 $\text{♩} = 64$

p mf p f p

p mf mf f p

p mf mf f p

p mf p f p

set transpositions

7

47

mf *p* *pp*

57

4

iii. Distortinizatelocon

$\text{♩} = 120$

ff *mf* *pp* *p*

8vb

change E.I. trans.

Turn off effects
start click

8 9 10

67

5

mf *mf*

mild distortion
E. 1+2

4

76

fp *mf* *fp* *p* *fp* *mf*

Euph dist. off
Tuba dist. on

12

85

mf *fp* *fp* *mf* *p* *fp*

all dist.

13

6

94

f *ff* *p* *f* *ff* *p* *f* *ff* *p* *f* *ff* *p*

7

103

dist. off
trans. on

14

8

113

delay on
dist. on
trans. off

15

122

delay off

16

6
131

ff
ff
ff
ff

p
p
p
p

more dist.

17

140

9

fff
fff
fff
fff

p
p
p
p

more dist.

18

147

p
p
p
p

fff
fff
fff
fff

effects off

19