



SCIENCE

1077





In het afsluitende beeld van "Science" zijn alle kleuren toegepast die voorkomen in de andere vijf delen. Nieuw is het binnendringende rood. Hiermee wordt de kleurenleer van Goethe op de proef gesteld. De compositie is verwant aan het ontwerp voor "Hypothesis".

Science - Falsifiability

Science is een compositie van Verklanking, een samenwerkingsverband tussen componist Vincent Cox, wetenschapper Dr. Tim Leufkens en dirigent Frank Marx. Het muziekstuk stelt de vraag 'wat maakt een mens een mens?' centraal. Aan de hand van de verklanking van vier wetenschappen, namelijk natuurkunde, biologie, wiskunde en psychologie wordt gezocht naar een antwoord op de vraag. De compositie heeft naast de vier wetenschappen een introducerend deel, de hypothese, en een afsluitend deel, de falsificatie. De delen heten in volgorde van verschijnen 'Hypothesis', 'Physics', 'Biology', 'Mathematics', 'Psychology' en 'Falsifiability'.

Met 'Falsifiability' wordt het muziekstuk afgesloten.

In een korte reprise komt de melodielijn nog één keer terug. Kunnen we een conclusie trekken? Kunnen we de hypothese bevestigen of juist ontkennen?

Honoré de Balzac:

Science is the language of the temporal world;
 love is that of the spiritual world.
 Man, indeed, describes more than he explains;
 while the angelic spirit sees and understands.
 Science saddens man;
 love enraptures the angel;
 science is still seeking;
 love has found.

*Science logo: Roy Wagemans
 Projectie: Harry van Meurs*

SCIENCE FALSIFIABILITY

Vincent Cox
Text: Honoré de Balzac

♩=80

The musical score is arranged in a standard orchestral layout. It includes staves for the following instruments and parts:

- Woodwinds:** Flute, Clarinet in Bb, Alto Saxophone, Trombone 1, Trombone 2, Trombone 3, Bass Trombone, Euphonium.
- Brass:** Trombone 1, Trombone 2, Trombone 3, Bass Trombone, Euphonium.
- Vocalists:** Soprano, Mezzo-soprano, Alto, Tenor, Baritone, Bass.
- Strings:** Cymbals a2, Egg Shaker, Maracas, Suspended Cymbal, Bongo (Woodblock), Sleighbells, 3 Triangles, Finger Cymbals, Tamtam, Bass Drum, Maurice-Florian.
- Other:** Crotales, Glockenspiel, Vibraphone, Marimba 1, Marimba 2, Timpani.

The score features a large, diagonal watermark reading "SCIENCE - FALSIFIABILITY". The music is written in 3/4 time and includes various dynamics such as *f*, *pp cresc.*, and *f*. The score is divided into measures, with some measures containing rests and others containing active musical notation.

14 **1** ♩ = 60

con arco

Più mosso

Crot.

Gls.

Vib.

Mar.1

Mar.2

Timp.

Fl.

Cl.

Alto Sax.

Tbn.1

Tbn.2

Tbn.3

B. Tbn.

Euph.

S.

M-S.

A.

T.

Bar.

B.

Cymb.

Egg Sh.

Mar.

S.Cym.

Bng.(W.Blek)

Sl.Bls.

Tri.

F.Cym.

Tam.

B.Dr.

pp cresc.

p

dim.

pp

pp cresc.

p

p cresc.

mf dim.

p

p cresc.

mf dim.

f

p cresc.

f³ dim.

p

Straight mute

mp

Straight mute

mp

f

mf

pp

pp

Mmm.

SCIENCE - FALSIFIABILITY

25 **2**

Crot.

Gisp.

Vib.

Mar.1

Mar.2

Timp.

Fl.

Cl.

Alto Sax.

Tbn.1

Tbn.2

Tbn.3

B. Tbn.

Euph.

S. *(as from a distance)*

M-S. *(as from a distance)* *pp*

A. *(as from a distance)* *pp*

T. *(as from a distance)* *pp*

Bar. *(as from a distance)* *pp*

B. *(as from a distance)* *pp*

Cymb.

Egg Sh.

Mar.

S.Cym.

Bng.(W.B)

Sl.Bls.

Tri.

F.Cym.

Tam.

B.Dr.

3 *con arco*

(Eb) *tr*

pp cresc. *mp dim.*

pp cresc.

pp cresc.

mp

mp

pp cresc. *mf dim.*

Mmm

Mmm

Mmm

Mmm

Mmm

Mmm

l.v.

p

SCIENCE - FALSIFIABILITY

40

Crot.

Gisp. (tr) *pp*

Vib. *con arco*

Mar.1 *mp dim.*

Mar.2 *mp dim.*

Timp.

Fl.

Cl.

Alto Sax. *pp cresc.* *f dim.* *Straight mute*

Tbn.1 *Straight mute*

Tbn.2 *f open*

Tbn.3 *f*

B. Tbn. *f*

Euph. *pp cresc.* *p*

S.

M.S.

A.

T.

Bar.

B.

Cymb. Egg Sh. Mar. *Cymbals a2*

S. Cym. Bng. (W. Blck) Sl. Bls. *Suspended Cymbal*

Tri. F. Cym. *f*

Tam. *f*

B. Dr. *Bass Drum*

SCIENCE - FALSIFIABILITY

70

Crot.

Gisp.

Vib.

Mar.1

Mar.2

Timp.

Fl.

Cl.

Alto Sax.

Tbn.1

Tbn.2

Tbn.3

B. Tbn.

Euph.

S.

M.S.

A.

T.

Bar.

B.

Cymb.

Egg Sh.

Mar.

S. Cym.

Bng. (W. Bick)

Sl. Bls.

Tri.

F. Cym.

Tam.

B. Dr.

mp

simile

mf

mp

Sci - ence is the lan - guage Sci - ence is the lan - guage Sci - ence is the lan - guage Sci - ence is the lan - guage

age and love is that... of the spiri - tu - al world of the spiri - tu - al world of the spiri - tu - al world of the

lan - guage and love is that... of the spiri - tu - al world of the spiri - tu - al world of the spiri - tu - al world of the

lan - guage Sci - ence is the lan - guage and love is that... of the spiri - tu - al world of the spiri - tu - al world of the spiri - tu - al world of the

tem - po - ral world of the tem - po - ral world of the tem - po - ral world of the tem - po - ral world of the

Sci - ence Sci - ence Lo - ve Lo - ve Lo - ve Lo - ve Lo - ve Lo - ve Lo - ve Lo - ve

Sci - ence Sci - ence Lo - ve Lo - ve Lo - ve Lo - ve Lo - ve Lo - ve Lo - ve

p

SCIENCE - FALSIFIABILITY

80

Crot.

Glsp.

Vib.

Mar.1

Mar.2

Timp.

Fl.

Cl.

Alto Sax.

Tbn.1

Tbn.2

Tbn.3

B. Tbn.

Euph.

S.

M.S.

A.

T.

Bar.

B.

Cymb.

Egg Sh.

Mar.

S.Cym.

Bng.(W.Blck)

Sl.Bls.

Tri.

F.Cym.

Tam.

B.Dr.

mf

mf *f* *mf*

p *poco f*

p cresc. *f dim.*

p cresc. *f dim.*

pp cresc. *f*

mf *ff* *mf*

mf

mf *f*

mp cresc. *f* *pp*

mp cresc. *f* *pp*

mp cresc. *f* *pp*

mp cresc. *f* *pp*

f *mp* *mp* *f* *mp*

p *f* *mp*

p *f* *mp*

p *f* *mp*

f *mf cresc.*

f *mf cresc.*

f *mf cresc.*

mf dim. *p cresc.* *mf dim.* *p*

p

mf

p cresc. *f dim.*

he ex-plains Man

Man he ex-plains he ex-plains

he ex-plains Man

he ex-plains N

des-cribes more than he ex-plains while the

des-cribes more than he ex-plains while the

des-cribes more than he ex-plains while the

85

Crot. *p cresc.* 3 3 3 *mf* *p cresc.* 3 3 3 *mf*

Glsp. *p cresc.* 3 3 3 *mf* *mf* *f* *p cresc.* 3 3 3 *mf* *f* *pp*

Vib. *p cresc.* *f* *mf* *p cresc.* *f* *pp* *pp*

Mar.1 *p cresc.* 3 3 3 *f* *p cresc.* 3 3 3 *f* *pp* *pp*

Mar.2 *p cresc.* 3 3 3 *f* *p cresc.* 3 3 3 *f*

Timp. *p cresc.* *mf* *p cresc.*

Fl. *f* 7 *ff* *f* 7 *ff*

Cl. *mf* 7 *f* *mf* *f*

Alto Sax. *mp* *mf* *p* *mf*

Tbn.1 *p cresc.* *mp cresc.* *mp cresc.* *mf cresc.*

Tbn.2 *p cresc.* *mp cresc.* *mp cresc.* *mf cresc.*

Tbn.3 *p cresc.* *mp cresc.* *mp cresc.* *mf cresc.*

B. Tbn. *p cresc.* *mp cresc.* *mp cresc.* *mf cresc.*

Euph. *mf* *f* *mf* *f*

S. *mf cresc.* and un - der and un - der - stand - s Sci-ence is the lan-guage

M-S. *mf cresc.* and un - der - stand - s Sci-ence is the lan-guage

A. *mf cresc.* and s and un - der - stand - s Sci-ence is the

T. *mf cresc.* an - ge - lic spi - rit sees while the an - ge - lic spi - rit sees

Bar. *mf cresc.* an - ge - lic spi - rit se while the an - ge - lic spi - rit sees

B. *mf cresc.* an - ge - lic spi - ri while the an - ge - lic spi - rit sees

Cymb. Egg Sh. Mar. *p*

S.Cym. Bng.(W.Blek) Sl.Bls. *p*

Tri. F.Cym. *c.* *f* *p cresc.* *f*

Tam. *p cresc.*

B.Dr. *p cresc.* 3 3 3 *mf* *p cresc.* 3 3 3 *mf*

SCIENCE - FALSIFIABILITY

96

Crot.

Gls.

Vib.

Mar.1

Mar.2

Timp.

Fl.

Cl.

Alto Sax.

Tbn.1

Tbn.2

Tbn.3

B. Tbn.

Euph.

S.

M-S.

A.

T.

Bar.

B.

Cymb.

Egg Sh.

Mar.

S.Cym.

Bng.(W.Bick)

SI.Bls.

Tri.

F.Cym.

Tam.

B.Dr.

mf

mf cresc.

mf

mf cresc.

mf

mf cresc.

mf

mf cresc.

p cresc.

mf

Sci - ence is the lan - guage and love is that.

of the spiri - tu - al world of the spiri - tu - al world

Sci - ence sad - dens

Sci - ence is the lan - guage and love is that

d of the spiri - tu - al world of the spiri - tu - al world

Sci - ence sad - dens

lan - guage and love i

world of the spiri - tu - al world of the spiri - tu - al world

Sci - ence sad - dens

tem - po - ral world

the lan - guage the lan - guage the lan - guage

Sci - ence

Lo - ve Lo - ve Lo - ve Lo - ve

Sci - ence

Lo - ve Lo - ve Lo - ve Lo - ve

109

Crot. *mp*

Gls. *mp*

Vib. *mp*

Mar.1 *mp simile*

Mar.2 *mp simile*

Timp.

Fl. *mf*

Cl. *mf mp*

Alto Sax. *mp*

Tbn.1 *p cresc. mf dim. p*

Tbn.2 *p cresc. mf dim. p*

Tbn.3 *p cresc. mf dim. p*

B. Tbn. *p cresc. mf*

Euph. *p cresc.*

S. *ff mp f*
 Sci-ence is the lan-guage- Sci-ence is the lan-guage Sci-ence is the lan-guage and love is that_ of the

M-S. *ff mp f*
 Sci-ence is the lan-gr -guage Sci-ence is the lan-guage Sci-ence is the lan-guage and love is that_ of the

A. *ff mp f*
 Sci-ence is the lan-guage Sci-ence is the lan-guage and love is that_ of the

T. *ff f mp*
 Scie-ence -ral world of the tem - po - ral world of the tem - po - ral world the lan-guage

Bar. *ff mp*
 Scie ie - ence Scie - ence Scie - ence Lo - ve Lo - ve

B. *ff*
 Scie - ence Scie - ence Scie - ence Lo - ve Lo - ve

Cymb. *simile*

Egg Sh. *simile*

Mar. *simile*

S.Cym. *simile*

Bng.(W.Blek) *simile*

Sl.Bls. *simile*

Tri. *mp*

F.Cym. *mp*

Tam.

B.Dr. *rum, with brushes mp*

127

Crot.

Gisp.

Vib.

Mar.1

Mar.2

Timp.

Fl.

Cl.

Alto Sax.

Tbn.1

Tbn.2

Tbn.3

B. Tbn.

Euph.

S.

M.S.

A.

T.

Bar.

B.

Cymb.

Egg Sh.

Mar.

S.Cym.

Bng.(W.B)ck

Sl.Bls.

Tri.

F.Cym.

Tam.

B.Dr.

ppp

mf

mf cresc.

p cresc.

mp

p

mf

pp

Sci-ence is the lan-guage

Sci-ence is the lan-guage

lan-guage

SCIENCE - FALSIFIABILITY

134

Crot. *f dim.* *ppp*

Gls. *f dim.* *pp*

Vib. *f dim.*

Mar.1 *f dim.*

Mar.2 *f dim.*

Timp. *f dim.*

Fl.

Cl.

Alto Sax.

Tbn.1 *Cup mute*
p cresc. mf dim. p cresc. mf
pp cresc. p dim.

Tbn.2 *Cup mute*
p cresc. mf dim. p cresc.
pp cresc. p dim.

Tbn.3 *Cup mute*
p cresc. mf dim. p cresc.
pp cresc. p dim.

B. Tbn. *Cup mute*
p cresc. mf dim. p cresc.
pp cresc. p dim.

Euph. *f* *mf* *mp*

S.

M-S.

A.

T.

Bar.

B.

Cymb.
Egg Sh.
Mar.

S. Cym.
Bng.(W.Blck)
SI.Bls.

Tri.
F.Cym.

Tam.

B.Dr.

SCIENCE - FALSIFIABILITY