

Newman

These Inflected Tentacles

marimba piano violin cello

O K F E E L G O O D M U S I C

Jonathan Newman

These Inflected Tentacles

COMMISSIONED BY

The Avian Orchestra
Peter Flint, Artistic Director

about *These Inflected Tentacles*

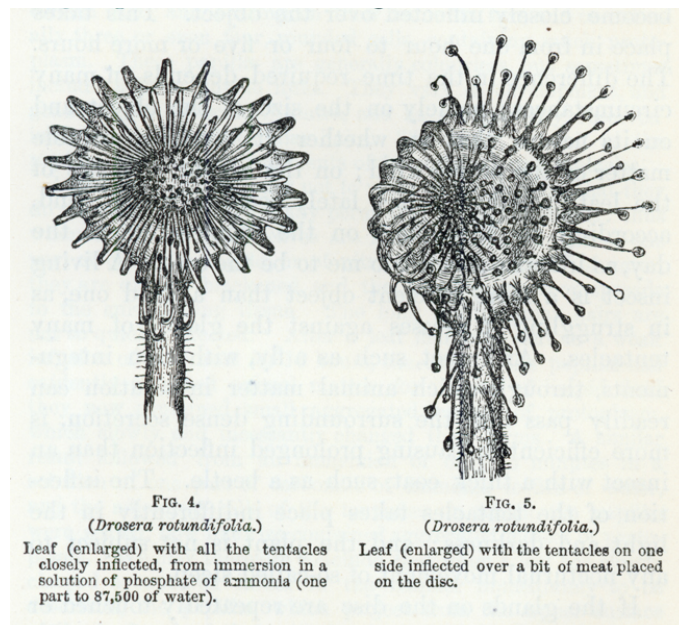
In 1875 Charles Darwin published his book *Insectivorous Plants*, in which he documents the discovery, dissection, and subjection of various meat-eating flora to 19th-century experimentation ranging from the curious to the cruel and unusual. The book documents a lifetime of indefatigable dedication to the Scientific Method, but one cannot help smile at the man's poking and prodding, dipping and burning. In four short movements, the quartet quotes Darwin recording his observations as he gleefully drops bits of meat, eggs, glass, hair, and anything else he can think of on his plants. Just to see what happens.

These Inflected Tentacles was commissioned by The Avian Orchestra for their 2011 program on botany, "Vegetative States".

INSTRUMENTATION

Marimba
Piano
Violin
Cello

DURATION: 10'



Drosera rotundifolia from Darwin's *Insectivorous Plants*. (1875, p.10)

www.jonathannewman.com

O K F E E L G O O D M U S I C

for The Avian Orchestra

These Inflected Tentacles

JONATHAN NEWMAN

i.

"The tentacles were as usual rendered of a very bright red, with the glands almost white like porcelain, yet tinged with pink."

Moderate, bouncing

♩ = ca. 160 (♩ = 106)

7/8 3+2+2 8/8 3+3+2 6/8 4/4 2/4 7/8 2+2+3 3/4

Marimba

Piano

Violin

Violoncello

7 3/4 7/8 3+2+2 6/8 9/8 6/8

p *mf*

ff *mf*

sfzp *f* pizz. arco *f*

14 $\frac{2}{4}$ $\frac{6}{8}$ $\frac{2}{4}$

f-mp < ff

Ped. pizz.

mf *f* *f*

pizz.

20 $\frac{2}{4}$ $\frac{7}{8}$ $\frac{9}{8}$ $\frac{5}{8}$

A

3+2+2 3+2+3 3+2+2+2 2+3

mf *f*

arco

f

25 3+2 6 7 2+2+3 3+2+2 4 4 9 6

Ped.

B

31 6 2 6 2 6 2 7

ff *mf* *f* *p*

Ped.

37 $\frac{7}{8}$ 2+2+3 $\frac{6}{8}$ $\frac{2}{4}$ $\frac{3}{8}$ $\frac{4}{4}$

p *f* *f* *p* *f*

mp *mf* *f* *pp*

pizz. arco

mp *mf* *f* *pp*

42 C $\frac{3}{4}$ $\frac{7}{8}$ 2+2+3 $\frac{4}{4}$

p *mf* *p* *pp*

mf *pp*

pizz.

47 $\frac{4}{4}$ $\frac{3}{4}$ $\frac{4}{4}$ $\frac{3}{4}$ $\frac{2}{4}$ $\frac{3}{4}$

mf *p* *mp*

(p) *mf* *p*

p *mp* *p*

arco *p* *mp* *p* *pizz.* *arco* *arco*

53 $\frac{3}{4}$ $\frac{4}{4}$ $\frac{3}{4}$ $\frac{6}{8}$ $\frac{4}{4}$ $\frac{6}{8}$

mf *mf* *p* *mf*

mp

p *mp* *p* *pizz.* *arco* *arco*

D

59 $\frac{6}{8}$ $\frac{2}{4}$ $\frac{6}{8}$ $\frac{2}{4}$ $\frac{6}{8}$ $\frac{2}{4}$ $\frac{6}{8}$

mp *f*

p *mp*

ped.

65 $\frac{6}{8}$ $\frac{2}{4}$ $\frac{6}{8}$ $\frac{2}{4}$ $\frac{6}{8}$

p *f* *mf*

mf

70 **E**

2/4 6/8 2/4 6/8 2/4

f

f *mf* *f* *f*

75

2/4 6/8 2/4 6/8 2/4 6/8

f

f *ff*

mf *f*

con Ped.

8^{vb}

80 $\frac{6}{8}$ $\frac{2}{4}$ $\frac{6}{8}$ $\frac{2}{4}$ $\frac{6}{8}$

mf *ff* *f*

Ped.

85 $\frac{7}{8}$ 3+2+2 $\frac{8}{8}$ 3+2+3 $\frac{6}{8}$ $\frac{7}{8}$

ff *f* *f* *mf*

Ped.

F

89 $\frac{7}{8}$ 3+2+2 $\frac{6}{8}$ $\frac{9}{8}$ $\frac{6}{8}$

mf
più f
f
mf
f

94 $\frac{2}{4}$ $\frac{6}{8}$ $\frac{2}{4}$ $\frac{6}{8}$

f *mp* *ff*
ff
Ped.
mf *f* *ff* *f*
ff *f*

G

100

3+2+3 3+2+2+2 2+3 2/4 3+3+2 6

105

rall.

6/8 4/4 2/4 7/8 2+2+3 3/4

ii.

"when the glands of the disc have bits of meat given them,
they transmit a motor impulse to the exterior tentacles"

Allegro (♩ = 144-152)

2/4 7/8 ³⁺²⁺² 10/8 ³⁺²⁺²⁺³ 7/8 10/8

Mar. *mf*

Pno. *f* *mf* *con Ped.*

Vln. *p < f* *sfz > p* *sfz > p*

Vc. *sfz > p* *sfz > p*

116 10/8 3/4 4/4 7/8 11/8 ²⁺²⁺³⁺²⁺² 10/8

f *mf*

f *sfz > p* *arco*

pizz. *f* *sfz > p*

121 $\frac{10}{8}$ $\frac{3}{4}$ $\frac{7}{8}$ $\frac{9}{8}$ $3+2+2+2$ $\frac{7}{8}$ $\frac{6}{8}$

f *mf* *f*

127 $\frac{6}{8}$ $\frac{2}{4}$ $\frac{7}{8}$ $\frac{10}{8}$ $\frac{4}{4}$

f *mf* *f* *mp* *p < f* *p < f* *p < f*

132 H
4/4

Musical score for measures 132-135. The score is in 4/4 time and features a piano accompaniment with a complex rhythmic pattern of chords and a melodic line in the right hand. The left hand provides a steady bass line. Dynamics include *f*, *ff*, *p*, and *mp*. A fermata is present over the final measure of this system.

136

Musical score for measures 136-139. The score continues with the piano accompaniment. The right hand features a melodic line with eighth notes and chords. Dynamics include *mf*, *f*, and *p*. The left hand continues with a steady bass line. A fermata is present over the final measure of this system.

10
8

147

Musical score for measures 147-150. The score is written for three systems of staves. The first system (measures 147-148) features a bass line with a dynamic of *f* followed by *mp*, and a grand staff with a piano (*p*) accompaniment. The second system (measures 149-150) features a grand staff with dynamics of *f*, *p*, and *mf* in the upper voice, and *f* and *mp* in the lower voice.

150

Musical score for measures 150-153. The score is written for three systems of staves. Measure 150 is marked with a tempo of 10/8 and includes fingerings 3+2+2+3 and 3+2+3+2. Measure 151 is marked with a tempo of 3/4 and includes a 'J' box. The score features a grand staff with dynamics of *f* and *pp* in the upper voice, and *f* and *p* in the lower voice. A 'con Ped.' instruction is present in measure 151. The final system (measures 152-153) features a grand staff with dynamics of *f* and *mp*.

K

155

Musical score for measures 155-160. The score is written for three staves: a single treble clef staff at the top, and a grand staff (treble and bass clefs) below. The key signature is one flat (B-flat major or D minor). The time signature is 3/4. Measure 155 begins with a treble clef staff containing a half note chord (B-flat, D, F) and a bass clef staff with a whole rest. From measure 156 onwards, the treble clef staff contains a melodic line of eighth notes, and the bass clef staff contains a harmonic accompaniment of chords. A dynamic marking of *p* (piano) is present in measure 156. A box containing the letter 'K' is positioned above the first staff at the beginning of measure 155.

160

pp

Musical score for measures 160-165. The score is written for three staves: a single treble clef staff at the top, and a grand staff (treble and bass clefs) below. The key signature is one flat (B-flat major or D minor). The time signature is 3/4. Measure 160 begins with a treble clef staff containing a half note chord (B-flat, D, F) and a bass clef staff with a whole rest. From measure 161 onwards, the treble clef staff contains a melodic line of eighth notes, and the bass clef staff contains a harmonic accompaniment of chords. A dynamic marking of *pp* (pianissimo) is present in measure 160.

166 L

mp

pp
pizz.

mf

171 4
4

mf

(pizz.)

mf
arco

p *mf* *espr.* *p* *mf*

176 **M**

4/4

f p

mf

p *mp*

p *mp*

Ped. →

181

10/8 2+2+3+3

f p *f p* *mf* *f*

cresc. *f*

cresc. *f > p* *mf* *f*

cresc. *f > p* *mf* *f*

Ped.

cresc. *f > p* *mf* *f*

cresc. *f > p* *mf* *f*

185 **N**

3+2+2 10 3+3+2+2 3+2+2+3 3+3+2+2 3+2+2+3

mf

p *mf*

p *pp*

8_{ub}

190

ff

p *f*

p *mf* *f*

66 7

195 $\frac{10}{8}$ 3+2+2+3 $\frac{2}{4}$ $\frac{7}{8}$ $\frac{11}{8}$ 2+2+3+2+2 $\frac{10}{8}$

mf

ff

f

ff

mp

sfz > p

sfz > p

200 $\frac{10}{8}$ 3+2+2+3 $\frac{3}{4}$ $\frac{6}{8}$ $\frac{9}{8}$ 3+2+2+2 $\frac{7}{8}$

f

con Ped.

f

f

205

7/8 10/8 6/8 9/8 4/4

mp *p* *mf* *pp* *f*

p *mf*

pp *f* *mf* *mp* *p*

pizz.

p *mf* *p*

210

4/4

mp

pp

con molto Ped.

p *arco* *p*

213 Q

Musical score for measures 213-215. The system includes a vocal line, a piano accompaniment, and a grand staff. The piano part includes a section marked *mf* and another marked *p*.

216

Musical score for measures 216-218. The system includes a vocal line, a piano accompaniment, and a grand staff. The piano part includes a section marked *sub. pp* and another marked *mf*.

219 2/4 4/4

Musical score for measures 219-221. The system includes a vocal line, a piano accompaniment, and a grand staff. The piano part includes a section marked *mf* and another marked *p*. The time signature changes to 2/4 and then 4/4.

4/4

7/8

Musical staff 1 (Melody): Treble clef, 4/4 time signature. Dynamics: *pp*. Rhythmic pattern: eighth notes.

Musical staff 2 (Piano accompaniment): Bass clef, 4/4 time signature. Dynamics: *pp*. Pedal: *Ped.*. Rhythmic pattern: eighth notes.

Musical staff 3 (Piano accompaniment): Treble and Bass clefs. Dynamics: *mf*. Rhythmic pattern: sustained chords.

3+2+2

3+2+3

3/4

Musical staff 1 (Melody): Treble clef, 3/4 time signature. Dynamics: *ff*. Rhythmic patterns: 3+2+2, 3+2+3, and 3/4.

Musical staff 2 (Piano accompaniment): Bass clef. Dynamics: *f*, *fff*. Rhythmic patterns: chords and eighth notes.

Musical staff 3 (Piano accompaniment): Bass clef. Dynamics: *8^{pb}*. Pedal: *Ped.*

Musical staff 4 (Piano accompaniment): Treble clef. Dynamics: *p*, *mp*, *f*, *ff*, *mf*, *ff*. Rhythmic patterns: chords and eighth notes.

Musical staff 5 (Piano accompaniment): Bass clef. Dynamics: *p*, *ff*. Rhythmic patterns: chords and eighth notes.

L.H. pizz., i.v.

arco

iii.

"Falling drops of water do not cause inflection."

Moderate, smoothly (♩ = 120)

The score is divided into three systems. The first system features a Maracas part in 4/4 time, starting with a *p* dynamic and moving to *mp*. The Violin and Violoncello parts are in 4/4 time, with the Violin starting at *p* and the Violoncello at *p*. The second system continues the Maracas part, which changes to 3/4 time and then back to 4/4. The Violin and Violoncello parts continue, with the Violoncello starting at *mf* and *p*. The third system introduces a Piano part in 3/4 time, marked *mf espr.*, and a section marked with a square 'S' in a box. The Maracas part returns to 4/4 time. The Violin and Violoncello parts conclude with a *mf* dynamic.

Mar. *p* *mp*

Vln. *p*

Vc. *p*

Mar. *mf* *p*

Pno. *mf espr.*

Vln. *mf*

Vc. *mf*

248

Musical score for measures 248-251. The score is in 4/4 time, with a 3/4 measure at the beginning of measure 249 and a 5/4 measure at the beginning of measure 250. The bass line features a sequence of chords and notes, including a triplet of eighth notes in measure 249. The piano accompaniment consists of sustained chords in the right hand and a melodic line in the left hand. Dynamics include *p cresc.*, *f*, *p*, and *mf*. A *mf* dynamic is also present in the bass line of measure 251.

252 T

Musical score for measures 252-255. The score is in 4/4 time, with a 3/4 measure at the beginning of measure 254. The bass line starts with a *p* dynamic and features a triplet of eighth notes in measure 253. The piano accompaniment includes a *pp* dynamic in the right hand and a melodic line in the left hand. Dynamics include *pp*, *p*, and *mf*. The score includes performance instructions: *sul D*, *gliss.*, *pp sul A*, and *nV* (natural harmonics).

256

Musical score for measures 256-260. The score is in bass clef with a key signature of one flat. It features a series of eighth notes with accents and dynamic markings *f p* repeated throughout. Above the staff, there are time signature changes to 4/4 and 3/4. The piano accompaniment includes chords with a *loco* marking and a *mp* dynamic. The lower piano part features a *port.* (portamento) marking and dynamic markings *mf*, *p*, and *pp* with hairpins. An *8va* marking is present above the piano part.

261

Musical score for measures 261-265. The score is in bass clef with a key signature of one flat. It features chords with dynamic markings *mf* and *mp*. The piano accompaniment includes chords with dynamic markings *f*, *mf*, and *f*. Above the staff, there are time signature changes to 4/4 and 3/4, with a *U* marking above the 4/4 section. The lower piano part features a *port.* marking and dynamic markings *mf* and *p*. An *8va* marking is present above the piano part.

267

p. *mf* *p*

274

V

mf espr. *mf* *poco più f*

280 **W**

4/4 3/4 4/4 3/4 4/4

f p f p f p f mp f mf mp

pp mf

Red.

pp gl. mf p

pp gl. mf p

285

4/4 3/4

p pp

pp p

pp p

p

290

4/4 X 3/4 4/4 3/4

mp
mp espr.
p
mf *p* *mp* *p*

8^{vb}
Ped.

295

3/4

p
pp
pp
pp
p *pp*

Ped. *

iv.

"a live insect is more efficient than a dead one"

Bluesy Allegro, furious (♩ = ca. 116)

4/4 muddled, blurry

Pno. *pp*

Ped.

Mar.

Pno. *mf* *pp cresc.*

Ped. sim.

Vln. *mp cresc.* sul pont.

Vc. *mp cresc.* sul pont.

Y

308

Musical score for measures 308-310. The score is written for a grand piano with four staves. The top staff is a treble clef staff, which is mostly empty. The second and third staves are the grand piano's left and right hands, respectively, showing a complex rhythmic pattern of eighth and sixteenth notes. The bottom two staves are the grand piano's right and left hands, showing a similar complex rhythmic pattern. A dynamic marking of *f* is present in the second measure of the second staff.

311

Musical score for measures 311-313. The score is written for a grand piano with four staves. A box containing the letter 'Z' is placed above the first measure of the top staff. The top staff is a treble clef staff with a dynamic marking of *f* and a triplet of eighth notes. The second and third staves are the grand piano's left and right hands, showing a complex rhythmic pattern of eighth and sixteenth notes. The bottom two staves are the grand piano's right and left hands, showing a similar complex rhythmic pattern. A dynamic marking of *f* is present in the first measure of the bottom left staff. Pedal markings include *Ped.* and *Ped. sim.* in the second and third measures. The word *clearer* is written above the second measure of the top staff. The word *ord.* is written above the first and third measures of the top and bottom staves. The word *sul pont.* is written above the second measure of the top and bottom staves. A dynamic marking of *mp* is present in the second measure of the top and bottom staves. A dynamic marking of *f* is present in the third measure of the top and bottom staves. A triplet of eighth notes is marked in the first and third measures of the top and bottom staves.

314

AA

Musical score for measures 314-316. The score is in G major and 2/4 time. It features a piano and a violin. The piano part has a treble and bass staff. The violin part has a single staff. Dynamics include *ff* and *mf*. Performance instructions include *sul pont.*, *Ped.*, and *ord.*. The piano part has a long pedal point in the bass register. The violin part has a melodic line with many accents.

317

BB

Musical score for measures 317-319. The score is in G major and 2/4 time. It features a piano and a violin. The piano part has a treble and bass staff. The violin part has a single staff. Dynamics include *fff*, *mp*, and *mf*. Performance instructions include *con Ped.*. The piano part has a long pedal point in the bass register. The violin part has a melodic line with many accents.

320

Musical score for measures 320-322. The score consists of three systems. The first system has a single staff with a treble clef and a bass clef, containing a melodic line with dynamics *f*, *ff*, *mf*, and *f*. The second system is a grand staff with treble and bass clefs, featuring a complex rhythmic accompaniment with dynamics *mp*. The third system is also a grand staff with treble and bass clefs, continuing the accompaniment with various articulations and dynamics.

323 CC

Musical score for measures 323-325. The score consists of three systems. The first system has a single staff with a bass clef, containing a melodic line with dynamics *mf* and *f*. The second system is a grand staff with treble and bass clefs, featuring a complex rhythmic accompaniment with dynamics *p*. The third system is also a grand staff with treble and bass clefs, continuing the accompaniment with dynamics *f*.

332

(8) loco

DD

ff

8^{vb}

con Ped.

mf

ff

gliss.

gliss.

ff

335

f

(8^{vb})

cresc.

sul pont.

mp cresc.

sul pont.

mp cresc.

338

Musical score for measures 338-343. The first system shows a treble and bass staff with various notes and rests. The second system features a grand staff with a treble staff and two bass staves; the top bass staff is marked (8^{vb}) and the bottom bass staff is marked (8) . The third system continues with a treble and bass staff, showing complex melodic lines and slurs.

340 **EE**

Musical score for measures 340-343. The first system features a treble staff with a forte (f) dynamic and triplets. The second system shows a grand staff with a mezzo-forte (mf) dynamic and 'loco' markings. The third system continues with a grand staff, featuring a forte (f) dynamic and 'ord.' markings.

343

FF

Musical score for measures 343-344. The score is in G major and 2/4 time. It features a violin part and a piano part. The violin part begins with a rest, followed by a series of eighth notes with accents, marked *ff* and *mf*. A dynamic marking **FF** is enclosed in a box above the staff. The piano part consists of a right-hand melody with eighth notes and a left-hand accompaniment of eighth notes, both marked *ff*. A *Red.* (ritardando) marking is present below the piano part. The second system includes the instruction *sul pont.* (sul ponticello) for both parts, with dynamics *mp* and *f*. The *ord.* (ordinario) instruction is also present.

345

Musical score for measures 345-346. The score continues in G major and 2/4 time. The violin part features a series of eighth notes with accents, marked *fff*. The piano part includes a right-hand melody with eighth notes and a left-hand accompaniment of eighth notes, marked *ff* and *mf cresc.*. A *Red.* (ritardando) marking is present below the piano part. An *8va* (octave) marking is shown above the piano part. The section concludes with a *ff* dynamic marking.

348 GG

f

con Ped.

ff *fp* *f*

351

f

HH

354

8va
cresc.
ff

8va
cresc.
ff
loco

8va
cresc.
ff
loco

ff
ff

Ped.

357

ff mf ff f fff

mf
8vb

f fff

8vb

sul pont. mp f fff

ord. 3

sul pont. mp f fff

ord. 3