

SDT 286/10

ALEXANDRA PALACE, STUDIO 'A'
RECORDING NO.: VTM/6LT/70468

MONDAY, 15 NOVEMBER 1971
PROJECT NO.: 00521/2139
OU REF. NO.: SDT 286/10 ✓

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OPEN UNIVERSITY BIOLOGICAL BASES OF BEHAVIOUR C.U.10

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SOUND SUPERVISOR.....JERRY LAWRENCE
VISION MIXER.....MARY KELLEHAR
CREW.....ONE
SENIOR CAMERAMAN.....GORDON BLOCKLEY
TECHNICAL ASSISTANT.....LAURIE HYMAN

TAKING PART

MISS ROBERTA CRAWLEY
DR. NOEL DE M'RUDOLPH
MISS PAT GUMBY
JOHN GROOM
BARRIE WHATLEY

SCHEDULE

CAMERA REHEARSAL.....1030-1300
TELECINE.....1100-1715
Lunch break.....1300-1400
Line-up.....1400-1430
RECORDING.....1430-1500
CAMERA REHEARSAL contd.....1500-1545
Line-up.....1545-1615
RECORDING.....1615-1715

TELEJECTOR SLIDES

<u>NO..</u>	<u>SHOT</u>	<u>DESCRIPTION</u>
1.	2	Biological Bases of Behaviour
2.	3	A Second Level Course - SDT 286
3.	4	Course Unit 10
4.	5	Introduced by Roberta Crawley
5.	35	The speakers were Roberta Crawley Dr. David Glass Dr. Noel de M'Rudolph West London Hospital
6.		Facilities provided by the West London Hospital
7.		Production by Victor Lockwood
8.		A production for The Open University BBC tv (c) The Open University 1971

CAPTIONS

CAMERA

1.	16	Waking state - Alpha rhythm & eye movements	3	C
2.		Stage 1 - Orthodox sleep		
3.		" 2 - "		
4.		" 3 - "		
5.		" 4 - "		
6.		Paradoxical or REM "		

RUNNING ORDER

PAGE	SHOTS	DESCRIPTION			
PRE-RECORDED SEQUENCE - 1430-1500					
6	21-25	RUDOLPH: Paradoxical alpha rythmn			

1	2- 5	Opening TJs			
1	6- 8	RUDOLPH: Intro. EEG			
1- 2	9	CRAWLEY: Intro.			
2	10	RUDOLPH: Demo. EEG			
2	11	CRAWLEY: Link to TK.1			
2- 3	12	TK.1			
3	13	RUDOLPH: Demo. rec. of eye movements			
3	14	CRAWLEY: Link to TK.2			
3- 4	15	TK.2			
4	16	CRAWLEY: Stages of sleep/captions			
4- 5	17	CRAWLEY: Link to TK.3			
5	18	TK.3			
5	19	CRAWLEY: Concludes depth sleep.			
5- 6	20	RUDOLPH: Intor. alpha rythmn			
RECORDING PAUSE					
7- 8	26-34	RUDOLPH: Alpha rythmn			
8	35	CLOSING TJs			

SHOTS 21-25 (p. 6) TO BE PRE-RECORDED 1430-1500

F/U

1. VT CLOCK
2. TJ.1
"Biological Bases of Behaviour"
3. TJ.2
"A Second Level Course
SDT 286"
4. TJ.3
"Course Unit 10"
5. TJ.4
"Introduced by
Roberta Crawley"
6. 3 A /RUDOLPH: Just sit back and relax -
WS EEG/RUDOLPH/SUBJECT close your eyes.
7. 1 A
CS SUBJECT in chair
8. 2 A
CS PRINT-OUT from EEG
9. 4 A /CRAWLEY: Introduces Dr. Rudolph and
MCS CRAWLEY previous demonstration. Describes
3 to B importance of EEG as a research

(3 NEXT)

(SHOT 9, on 4)

CRAWLEY contd: tool in arousal.

Hands back to Dr. Rudolph.

10. 3 B /RUDOLPH: Demonstrates features of
MCS RUDOLPH EEG.
- /4 turns to/
subject /
- INTERCUTTING WITH:
- 2 A
CS EEG TRACE
- &
1 A
CS SUBJECT'S FACE
- &
4 A
CS SUBJECT'S SIDE VIEW
to show ELECTRODES
- i) Relationship between channels
and electrodes;
ii) How they are attached;
iii) The particular placement used
for recording alpha rythmn;
iv) The significance of what they
record;
v) The recording of heart rate.
- /4 turns back/
to CRAWLEY /

Hands back to Bobbie.

- Ends on:
11. 4 A /CRAWLEY: Talks about the use of EEG
MCS CRAWLEY in sleep research. Introduces film.

12. TK.1 (DUR: 1'33")
Film: Subject arriving & being wired up. /s.o.f./
(Link to Rudolph)

(3 NEXT)

(SHOT 12, on TK.1 - dur: 1'33")

/Q RUDOLPH/

-
13. 3 B /RUDOLPH: Demonstrates recording of
MCS RUDOLPH eye movements:
- INTERCUTTING WITH:
- 1 A i) Difference between eye move-
CS SUBJECT ments and EEG activity;
- &
- 2 A ii) Placement of electrodes;
CS EEG TRACE iii) Demonstration of eye move-
ments on trace.

Hands back to Bobbie.

14. 4 A /CRAWLEY: Introduces concept of
MCS CRAWLEY sleep in stages.

15. TK.2 (DUR: 3'54")
Film: Stages of sleep /s.o.f./
- /3 to C/

(4 NEXT)

(SHOT 15, on TK.2 - dur: 3'54")

/Q CRAWLEY/

16. 4 A /CRAWLEY: Goves through stages of
2-S CRAWLEY/CAP. stand sleep with captions.
on block

INTERCUTTING WITH:

- 3 C
Caps.1: Waking state
Alpha rythm &
eye movements
2: Stage 1
Orthodox sleep
3: Stage 2
Orthodox sleep
4: Stage 3
Orthodox sleep
5: Stage 4
Orthodox sleep
6: Paradoxical or
REM sleep

/4 change shot
over final cap./

- Ends on:
17. 4 A /CRAWLEY: Introduces depth of sleep
MCS CRAWLEY film:
i) Difference between orthodox
and REM sleep.

(TK NEXT)

(SHOT, 17, on 4)

CRAWLEY contd:

ii) Implication for being awakened.

18. TK.3 (DUR: 3'00")
Film: Depth of sleep /s.o.f./

/Q CRAWLEY/

19. 4 A /CRAWLEY: Concludes depth of sleep
MCS CRAWLEY film.

Signposts the differences between
REM and orthodox sleep.

Reminds students that this is only
a demonstration.

Hands back to Dr. Rudolph.

20. 3 B /RUDOLPH: Introduces alpha rhythm as
RUDOLPH the basic brain rhythm of awake
resting subject.

(RECORDING PAUSE NEXT)

(SHOT 20, on 3)

RUDOLPH contd: Refers back to
earlier part of the day when the
subject is drowsy from lack of
sleep and food.

RECORDING PAUSE

(MOVES R TO EEG)

SEQUENCE TO BE PRE-RECORDED AT 1430:

21. ^{MIX}
1 A /RUDOLPH: The subject is drowsy -
CS SUBJECT eyes closed.
22. 3 B /Demonstrates lack of/alpha rythmn on
RUDOLPH the trace.
23. 2 A
CS EEG TRACE
24. 1 A /Asks subject to open his eyes.
CS SUBJECT
25. 2 A /Shows paradoxical alpha blocking
CS EEG TRACE on the trace.

END OF PRE-RECORDED SEQUENCE

(3 NEXT)

(RECORDING PAUSE)

26. 3 B /RUDOLPH: Describes how the subject
MCS RUDOLPH has been made alert by having coffee
and a walk in the fresh air.
27. 1 A Demonstrates alpha blocking with
EEG TRACE mental arithmetic.
28. 3 B /Describes how alpha rythmn is
RUDOLPH not found in all subjects (while
29. 1 A subjects change over.)
MS CHANGE OVER of
subjects
30. 3 B /Asks subject to close his eyes and
MCS RUDOLPH perform simple task of mental
arithmetic.
31. 2 A (EXAMINES PRINT OUT TRACE) Alpha
CS TRACE rythmn persists.
32. 3 B /Asks subject to open his eyes.
MCS RUDOLPH
33. 1 A
CS SUBJECT
34. 3 B /(EXAMINES THE TRACE) Alpha rythmn
MCS RUDOLPH persists.

Concludes - alpha rythmn is not

(TJS NEXT)

(SHOT 34, on 3)

RUDOLPH contd: a simple measure
of arousal.

35. TJ.5
"The speakers were..."

TJ.6
"Facilities..."

TJ.7
"Production by..."

TJ.8.
"A production for..."

FADE SOUND & VISION

AMENDMENTS

O.U. BIOLOGICAL BASES OF BEHAVIOUR - O.U. REF: SDT 286/10

VTR: 15.11.71 (Pt. remake: 2.12.71)

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PLEASE NOTE THE FOLLOWING ALTERATIONS TO THE ABOVE PROGRAMME AS AFFECTED BY THE FINAL VT EDIT:

PAGE 1: CRAWLEY introduces the programme.

SHOT 6: establishing shot of set-up with EEG, RUDOLPH, GUNBY & SUBJECT (John). Then shot of trace with eyes closed/eyes open.

CRAWLEY demonstrates alpha blocking on trace.

PAGE 2: CRAWLEY links to alpha trace after RUDOLPH has demonstrated features of EEG & electrodes.

RUDOLPH (OOV) demonstrates:

- i) Alpha trace;
- ii) Placement of electrodes used for recording alpha rhythm;
- iii) Relationship between channels & electrodes;
- iv) Significance of what they record;
- v) Recording of heart rate.

PAGE 5: JOHN GROOM eyes shut - RUDOLPH OOV.

PAGE 6: SHOT 21: RUDOLPH OOV
CRAWLEY links closed/open eyes after shot 23.
" link after shot 25.

PAGE 7: RUDOLPH OOV - end shot 27 demonstrates alpha blocking with mental arithmetic & eyes shut.
CRAWLEY link after shot 27, and refers to heart rate.
Subjects changed (to BARRIE WHATLEY) after shot 29.
SHOT 34: RUDOLPH points out that alpha rhythm persists but reduced in voltage.

PAGE 8: CRAWLEY (after shot 34) refers to heart rate and concludes programme.