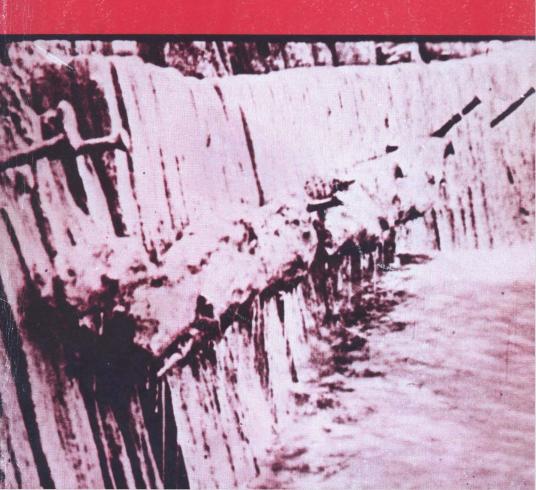


STRUCTURAL FILM ANTHOLOGY



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On Structural Studies

Birgit Hein

If an artist needs to write explanations about his work, there is something wrong with the work. This opinion is widely spread and it is possibly true to a certain extent in the area of the fine arts, where a long tradition of professional criticism exists. In the area of the experimental – or avant-garde – film the situation is different, as there exists no comparable tradition. Here the artists themselves have to work out categories to judge their work. Therefore it is necessary to write about the films to help in their understanding.

Since the beginning, our work in film was concentrated on the medium. Rohfilm was the first film where this concern was obviously expressed, although in a way of emotional explosion against the film-system and its narrow limits of expression. It was also an effort to overcome the influence of the aesthetic of the New American Cinema, of Brakhage, whose work was the main influence in the beginning.

Most important for further development were the Fluxus-Films as a collection of very short films, each concentrated only on one subject and each a statement about film. The simplicity of the films, the renunciation of any creative transformation of the material, was an essential step towards a new aesthetic. Of course credit also goes to Warhol. But at that time his films existed only in literature; there was no possibility of seeing them.

The first step to a more controlled work in this sense was Work in Progress Teil A, 1969, which was composed of six single films of 3 to 10 minutes length. Each film was made separately, dealing with one special problem: 1. Commercial film, 2. Printing process, 3. Illusion of perception, 4. Reality, 5. Time, 6. Illusion of movement. The films were put together not as a continuous statement, but as reactions to each other. Then the 'Portraits' were started (1970), also not as a planned series; it grew parallel to the other work. It is still continued as a statement about film technique as a basis for film aesthetic. Another approach to this problem was Work in Progress Teil C, 1971, which is constructed only with pieces of found films: Hollywood, Documentary contemporary and historical, home movies, Tv news. It shows the different appearance of film, also as a counterpart to our own work.

The first series of two-screen films, 1971, is concentrated on the interaction

between two parallel images, on movement by change of light inside the images and from one image to the other. A new series of two-screen films, which is in production, deals with the angles. Here the two images explain each other by their difference.

To a certain extent Structural Studies is a condensation of the work done so far. It includes the experience of the earlier work, and demonstrates this by combining old and new films in a new statement about structure: which is not seen as an individual constructing system of a film, but in the technical and perceptional laws that are basic for the functioning of film. These are singled out and visualized. The theme of the film is the analysis of the phenomena of the perception of movement. The short single films each deal with one problem.

What is new in the film is the confrontation of abstract demonstration material and real image material each shot in the same technique. Here the possibilities and the limits of technique are shown, and the importance of the image material becomes obvious. To get control over the expression of the image is of major interest in all the work to come.

Like all the earlier films mentioned here Structural Studies is an open construction. It can be continued or changed without any danger of losing its essence.

Succession of films in Structural Studies

1. Illusion of natural movement and deceptive movement. 1. Black square on white ground After-image: in the blank-film appears the 50" b&w after-image of the black square. 2. Blank-film In the following black leader appears the after-23" image of the blank film. b&w 3. Black-film 42"

b&w

Explanation

- 4. Two fixed points with different position in the image are presented one after the other in short distances.
- a. 10 frames each interrupted by 3 black frames
- b. 5 frames each interrupted by 3 white frames
- c. 5 frames each
- d. I frame each

Description

- e. one black point, one white point 10 frames each, interrupted by 3 black frames
- f. one white point on black, one black point on white ground 5 frames each
- g. like f but 10 frames each

60" h&w

Phi-phenomenon: 'The second characteristic underlying the perception of apparent movement is the so-called phi-phenomenon. This was studied experimentally and reported by Wertheimer 1912 . . . Wertheimer studied the effects of presenting fixed short lines of light, separated in space, the second being presented some time after the first. If the interval between the two exposures is short $(\frac{1}{32} \text{ sec.})$ the two stimuli will appear as two and as simultaneous; and if the interval is relatively long (1) the lines are again seen as two but successive. At some interval whose duration is between those two

intervals, an appearance of movement is seen, the optimal value being around 16 sec.' (The Focal Encyclopedia of Film and Television Techniques, London and New York 1969. p. 968.)

It is the basis for filmic animation and therefore treated here so comprehensively.

5. White pieces of paper are laid subsequently on a grey paper and shot with single-frame 2.5" b&w The same with black pieces on white paper

b&w

6. Abstract forms are painted on blank-film differing frame by frame b&w

6a. A piece of film-leader with numbers and handwritten notes

colour

7. Animated drawing: a man walks to a house

8. Two pieces of a documentary of a trotting race, showing two different trotters with one after the other

18" b&w

Ventilator at different speed

black leader 15"

10. Flicker = One and a half min. of part III from Work in Progress Teil A. 1969. One image is shown, interrupted by 3 black frames in the continuous sequence of 3 frames image, 3 frames black 80" b&w

11. 'Kurt Schwitters I' from Portraits, 1972: two different portrait photos of Kurt Schwitters are presented one after the other:

- a. 1 frame each
- b 2 frames each
- c. 3 frames each
- d. I frame each interrupted by I black frame
- e. 2 frames each interrupted by 2 black frames
- f. 3 frames each interrupted by 3 black frames 73" b&w

12. 'Kurt Schwitters II' from Portraits, 1972: The two photos and the black frames are presented in a variation from 1 to 4 frames per Variation of 4:

Illusion of movement.

same as 5.

same as 5.

same as 5.

Persistence of vision demonstrated in the wheels.

same as 8.

b&w

Illusion of movement only by intermittent light.

Demonstration of 4 with chosen real image material: in a sequence of 3 images, 3 black frames, a continuous movement of the heads is achieved

Here two different kinds of artificial movement are seen at the same time.

image. At the same time the fingers of the one shooting the film and arranging the fotos on the table are seen over the images, changing their position at different intervals from those of the images h&w 161" 13. A Japanese postcard of a girl who twinkles The effect is based on the phenomenon of 4. with her eye, if the postcard is turned at a certain angle 31" b&w 14. 'Walk-Film' = about 2 minutes of part VI Illusion of natural movement of Work in Progress Teil A, 1969. Each frame of a short film-strip (33 frames long), showing a walking man, is reproduced as still photo. These still photos are shot in single-frame as reanimation and variation of the original movement. Even if the single images are interrupted by 10 black or white frames (1 frame per image, 10 frames per black/white shot), the movement is seen as continuous 145" 15. Several short pieces of a colour documen-The perfect illusion of reality as contrast and tary of a riding competition supplement to the statements made by the 16" films from 1-14. colour Black leader 15" II. Filmic movement by shooting and projecting. 16. Two arrows pointing at each other (the left Frame stability test of the camera. is filmed first, then the film rewound, then the right one is shot) 25" h&w 17. Blank-film. The frame line is moved in Frame stability in the projector. h&w 18. Professional leader. A white line on black is Movement of the film-strip through the

seen. Its movement only becomes apparent by the numbers which appear at a certain distance instead of the line

projector.

20" b&w

A refilmed still photo 95" b&w Frame-stability of the projector.

Black leader 15"

III. Filmic movement by camera-operations (focus variation, light variation, distance variation).

20. Black square on white. The focus is gradually moved to and fro in its total range 77" bokw The square seems to move from back to front.

21. Like 20, but shot with single frame at different focus positions

77" b&w

22. The same as 21, but with real images (photos of landscapes) 110"

23. The same as 20, but with real images (also the same photos as 22)

44" b&w

24. The same as 21, but a real life view in colour. Artificial movement and real movement combine

100" colour

25. About one minute of Scharf/Unscharf, 1972, which consists of loop prints of slightly different landscape views, shot in single frame: I frame in focus, one frame out of focus. In contrast to 24, the out of focus position remains always the same.

The result is an image, moving in itself 67" b&w

Black leader 15"

26. Black square on white, shot with a zoom moved through the total range from wide angle to tele. The zooming speed differs from very slow to very fast

39" b&w

27. A static real life view (park avenue with trees on both sides) is taken in the same technique
45"
b&w

Black leader 15"

28. One minute of *Doppelprojektion 1*, 1972, showing a view through a window from inside a room, which is lighted by lamps.

a. left side of the two-screen film, fading-in automatically with changing aperture 30" b&w

b. right side of the two-screen film, fading out automatically with changing aperture 30" b&w

Very strong movement because of the quick changing of the size of the square.

The kind of movement, created by the change of focus, which is demonstrated in 20 and 21, remains basically the same for the following films: 22 to 25.

But the expression of the films differs according to even the slightest difference in the technique used: e.g., the number of frames taken at each shot, or whether the focus range changes or is steady.

But the most important difference between the films is caused by the chosen image material. This makes it obvious that a pure structural film – a film on structure – can only be the test film.

The movement is much stronger than in the change of focus. It creates even the illusion of deep space in the image from back to front.

The two films, 26 and 27, together are another example of what has been said above.

Movement by change of light. Also the light movement in these films creates a space illusion: the image itself seems to move from back to front and back because the outside has different light from the inside. By fading in or out, different areas of the picture come out in the right exposure while other parts are overor under-exposed.

The changing aperture brings about a change of depth of space: the space is extremely narrow, if the aperture is nearly closed.

29. One minute of Doppelprojektion II, 1972, which shows a static view of a wide meadow, shot with open aperture (2.5).

a. left side of the two-screen film, fading-in automatically

30" b&w

b. right side of the two-screen film fading-out automatically 30" b&w surface, coming from the sides to the centre of the image.

30. One minute of *Doppelprojektion III*, 1972, showing automatic fades of pure light.

a. left side of the two-screen film fading-in b&w

b. right side of the two-screen film fading out 30" b&w

Movement without any direction. 28-30 is another example of what is said under 22-25.

Here the image remains flat. As the aperture

remains open, the image builds only for a very

short time. The movement remains on the

Black leader 15"

31. Multi-exposure: two levels with different colour photos faded in and out at different speeds, and two levels faded in and out with pure light in different speed 114"

colour

variation.

32. Work in Progress Teil B, 1970. A sequence of picture postcards each in colour and black and white. Each b&w postcard is superimposed on the respective postcard in colour 170" colour

The same as 31. The change of colour brings about a movement inside the image.

Another example of movement by light

33. Test-reel for Stills, 1973 80"

colour

Demonstrates that Stills is also developed from the same basic questions about the medium, although it looks different at first glance.

Of course, the above is not everything that can be said about the films. Much is omitted, for example any discussion of the length of the films, or of their difference in their appearance in the original and the new context, which is particularly important for the two-screen films. The description does not take the place of the film; it is only an initial aid for getting into the film.

Cologne 1975