THE ATTITUDINAL IMPACT OF SEXUAL EMBEDDING IN PRINT ADVERTISING

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Scope and Method of Study: The main objective of this study was the investigation of the attitudinal effects of embedding of sexual stimuli in print advertising. It differs from past efforts, in that it concerns itself with figure and ground embeds rather than subliminal stimuli. Because there has been little research in this area, a theoretical basis for the study was drawn from a review of three separate, relevant areas: (1) Subliminal stimulation, (2) Attention and perception, and (3) Figure and ground manipulation. The hypothesis drawn from this basis was that the figural embedding will have no effect on viewers of these ads. The experiment performed to test this hypothesis used 74 undergraduate students in a posttest only control group design. The students were randomly divided into groups, with males and females equally apportioned. They were then shown the embedded ads or the control ads with the embeds removed. The order of presentation was also varied. Seven point semantic differential scales provided the measurement of attitudes along four components: affective. cognitive, behavioral, and sexual. Eight 2 x 2 x 2 analysis of variance were used to analyze the data. The factors were version, sex, and order of presentation.

indings and Conclusions: The hypothesis was supported in that no significal relationship was found between attitudes and embedding. These findings are contrary to certain advertiser's current practices of engaging in the liberal use of figural embedding. The implication of this study is that of a "warning flag" to advertisers to examine this practice carefully and to call for more critical research. There is also an ethical issue to be considered in this attempted manipulation of mass audiences without their conscious awareness. Is this figural embedding of sexual images worth the possible social outcry? The evidence from this study says no.

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PREFACE

This study is concerned with the attitudinal effects of embedding of sexual stimuli in print advertising. The main objective is to determine the impact of these embeds upon the viewer's attitudes and buying behavior. This paper differs from past efforts in that it concerns itself with figure and ground embeds rather than subliminal stimuli. Based on the literature review, the hypothesis advanced is that the figural embeds would make no difference upon viewer's attitudes. These attitudes are measured by a questionnaire utilizing semantic differential scales. The scales measure attitude along four components: cognitive, affective, sexual and behavioral. The experiment performed to test the hypothesis involved 74 undergraduate students in a posttest control group design. Eight 2 x 2 x 2 factorial analysis of variances are used to analyze the data collected from viewers of two selected advertisements. The factors included are version (presence or absence of embed), sex of respondent, and order of presentation of the ads.

The author wishes to express his appreciation to his adviser, Dr. Villiam Kilbourne, for his guidance and assistance throughout this study.

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And finally, lasting gratitude is expressed to my parents for their understanding, encouragement, and love.

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CHAPTER I

INTRODUCTION

With a few exceptions, interest and experimentation by the marketing rofession in the field of subliminal stimulation has been virtually non-xistent since the brief flurry of publicity and experiments in 1957-59. his is probably the result of two factors: (1) The somewhat overwhelming vidence in support of the position that such methods lack effectiveness n stimulating action and (2) The public outcry and admonishment of the se of subliminal techniques in attempting to manipulate mass audiences.

One notable exception to this lack of interest in subliminal timulation has been the work of Wilson Bryan Key, who in 1972, published he first of a series of three books exposing the prolific use of ubliminal stimulation in advertising. Citing numerous examples of what e refers to as subliminal embeds, he provides clear, irrefutable evidence hat at least some advertisers have embedded symbols of sex and death n their print advertising. Though many of the ads cited used the stimulinal symbolic manner which might be subject to many interpretations, other ds use explicit figures which once noted, leave little symbolic interpretation to the viewer.

Such embeds as female breasts, male and female genitals, and nude mages have been found in several ads. It should be reasserted that this loes not refer to symbolic stimuli but rather to the actual anatomical mages which can be seen and identified by viewers once they know where and how to view the ads. This brings up a significant theoretical

istinction between the proposed study and previous research in subliminal timuli. By the accepted definition of subliminal perception and subception Murch, 1964), these stimuli are not subliminal since subliminal implies sing incapable of being consciously perceived in a certain percentage usually 50%) of the observations by individuals. Thus, even if the repondent was aware that subliminal messages were being presented, he could till not consciously perceive them. This is clearly not the case with the stimuli being referred to as subliminal embeds. Once the respondent aware of the existence of the stimulus, it is clearly perceptable to im. A more appropriate paradiam would be the Gestalt psychologist's anipulation of figure and ground. It is this distinction that provides the justification for this study.

To provide the theoretical basis for this study, the literature review ill be broken down into three sections. First, the general topic of abliminal perception will be defined and the important studies in the rea reviewed. Even though the present study does not deal directly with abliminal stimuli, it is important to have a sound knowledge of the subject order to support the given hypothesis. Second, this review will focus a discussion of attention and perception. These concepts will be related the present research and the theories upon which this study is based lie be reviewed. Finally the concept of figure ground manipulation and as relationship to embedding in advertising will be discussed.

After this review, the hypothesis for this study will be made clear. roughout this discussion we will be attempting to set up the theoretical sis to answer the problem at hand: What is the attitudinal effect of gure and ground embeds upon viewers of print advertisements?

CHAPTER II

LITERATURE REVIEW

Subliminal Perception

Subliminal perception is not a new phenomenon. The existence of the man subconscious has been documented over many centuries by composers, rtists, poets, philosophers, and scientists. This term, subliminal exception, will be used here to describe sensory inputs into the human exvous system that circumvent or are repressed from conscious awareness repressionable, inputs that communicate with the subconscious. The term is, of course, popular implications which suggest brainwashing, maniplation, and other unsavory practices. Other, possibly more scientifically efensible names for the phenomenon are subliminal reception, threshold equilation, unconscious perception, and subception (Murch, 1964).

Data provided from studies in neurology and psychology strongly apport the conclusion that all senses operate on at least two perceptual evels. Information is collected at what might be called a cognitive conscious level, a level where each human is consciously aware of what going on. Information is also collected simultaneously and continuously a subliminal level, a level at which there is no conscious awareness data entering the brain. There could be many other levels between procious and subconscious perception, but for purposes of illustration, we discussion will be limited to only these two - conscious and subconscious

The first recorded mention of subliminal perception may be in the itings of Democritus (400 B.C.) who mentioned "much is perceptible which not perceived by us." Aristotle discussed subliminal awareness thres-lds in his <u>Parva Naturalia</u> nearly two thousand years ago and appears to ve been the first to suggest that consciously unperceived stimuli could fect behavior.

The study of subliminal perception again came to public attention in e late 1950's. In 1957 one American market researcher, James Vicary, monstrated the tachistoscope, a machine for flashing on a screen invisible ssages which could be seen by the subconscious. After the publication 1958 of Vance Packard's book, The Hidden Persuaders, motivation researchers nest Dichter and Louis Cheskin were publicly admonished for their ientific contributions which had supported advertisers attempts to nipulate mass audiences (Key, 1973:20).

The initial experiments with mechanically induced subliminal perception re based upon the tachistoscope which is simply a film projector with high speed shutter which flashes messages every five seconds at 1/3,000 a second.

At the time, legislators and the public were shocked at the implications volved in subliminal or subaudial perception. Legislation was introduced, ough never passed, in half a dozen state legislatures and in the U.S. nate to prohibit legally the use of subliminal techniques in the public mmunication media (Key, 1973:21).

Obviously, the notion that one may influence the behavior of another dividual without the individual knowing about it is a fascinating one. ually obvious is the need for a clarification of the issues surrounding e application of subliminal perception. The current literature perining to this subject will now be reviewed. The reader should keep in

ind that the reason for this clarification is to point out the difference n the past research of subliminal stimulation and figure-ground manipulation

While the advertising possibilities of subliminal stimulation were ecognized by Hollingworth as early as 1913, most of the work was done in he late 1950's (Lazarus, McCleary, Murch, Ericksen, and Packard). All f these studies failed to find any connection between subliminal perception and purchase behavior.

The work of experimental psychologists in subliminal stimulation ates from Suslowa in 1863, as reported by Baker (1937). Suslowa's xperiments concerned the effect of electrical stimulation upon subjects' bility to make two-point threshold discriminations. He found that, even hen the intensity of the electrical stimulation was so low that the subects were not aware of its presence, their ability to discriminate one rom two point stimulation was somewhat reduced.

Pierce and Jastrow (1963) were able to show that subjects could iscriminate differences between weights significantly better than chance ould allow. Several experiments have provided further support for Pierce and Jastrow's initial conclusions (Baker, Miller, and Blackwell). Several ther supporting studies are available which show essentially the same esults, namely that even when subjects have zero confidence in their adgements, they can discriminate reliably (though not perfectly) between timuli.

In his review, Adams (1959) points out certain general weaknesses therent in studies of this type, but agrees with other researchers that iscrimination can occur under certain conditions. However, it is interesting to note that, in nearly all studies reporting relevant data, the eliability of the subjects' judgements increase directly with the intensity of the stimuli. If a valid extrapolation can be drawn from this finding,

; would be that accuracy of perception increases as the stimulation proaches a supraliminal level.

While these studies are not unequivocal in their findings, nor enerally rigorous in their methodology, they do seem to support the conntion that behavior of a sort can be influenced by subliminal means. Wever, they require cautious interpretation, since the degree of the object's attention to the stimuli seems clearly to be a factor. Further, see studies reveal a somewhat less pronounced effect of subliminal imulation upon the subjects' behavior. This is in contrast to those udies where the subject is actually aware in advance of the general ture of the subliminal stimulation.

While the studies reported seem to indicate that discrimination withtawareness may occur, it may reasonably be asked whether stimulation low the level of conscious awareness can produce any but the most simple difications in behavior. A series of studies beginning with Newhall d Sears (1933), have attempted to show that it is possible to condition bjects to subliminal stimuli (Baker, McCleary and Lazarus, Back and ein).

Whatever the possibility that subliminal stimulation may significantly ter behavior, there is excellent evidence that certain inner states of e organism, as well as externally induced conditions, may significantly ter the recognition threshold of the individual. This has important plications for the susceptibility of the individual to the effects of bliminal stimulation and figure - ground embedding. It is well known at physiological factors, such as fatigue, visual acuity, or satiation, y change the threshold of an individual for various kinds of stimuli cConnell, 1963).

Recent evidence has accumulated to show that, in addition to these

hysiological factors, certain "psychological states," such as psychological eeds, value, conflict, and defense, may also significantly influence nresholds, as well as other aspects of the perceptual process (George and ennings, 1975). Rees and Israel (1976) showed that emotional factors were mportant determiners of the perception of the magnitude of need-relevant ojects. Other studies bearing upon the issue of perceptual defense are eported by Carter and Schooler (1958), Cowen and Bier (1970), and nein and Murphy (1971).

More specifically related to the issue of altered perceptual thresplds is a study by McGinnis (1960) which demonstrated that emotionally oned words had generally higher thresholds than neutral words. Blum 1961) has shown that subjects tend to be less likely to choose conflictelevant stimuli from a group presented at subliminal speeds than to noose neutral stimuli. Again, this could be applied to sexual embeds. The many writers have contended that the variations in threshold can accounted for more easily than by introducing "motivational" factors uch as need and value, and while the issue of the degree to which need tates influence perceptions is still unresolved, it is apparent that he recognition threshold is not a simple matter of intensity nor speed? Presentation.

From this review it can be safely concluded that under certain onditions, the phenomenon of subliminal perception does occur. But nether or not it is capable of altering more than the most simple kinds behavior has never been proved. The work of Key indicates that some livertisers apparently believe that this type of perception does indeed ter behavior. But what theoretical basis does this belief have? To swer this question we must investigate the area of focused attention and perception.

Attention and Perception

Debate about the nature of selective attention has centered on sks that require the subject to select inputs, or filter information. The classic example of input selection is the situation that Cherry (1968) scribed as the cocktail-party problem: A guest at a cocktail party ually listens to one conversation and ignores all others, regardless of w loud they may be. In general, a person is said to select inputs en he focuses attention exclusively on stimuli that originate from a rticular source or share some other characteristic feature.

The performance of a respondent who selectively attends to a relevant ssage in the presence of an irrelevant message can be evaluated by two ts of questions: (1) How effective is the processing of the relevant ssage? Is comprehension impaired relative to a control situation in ich that message is presented alone? (2) How effective is the rejection the irrelevant message? In what ways, and at what stages, are the lected and rejected messages treated differently?

First, experimental findings in this area of attention will be mmarized. Then several theories will be reviewed that have been prosed to explain these findings.

The studies reviewed (Zelnicker, 1959; Moray, 1960; Henik, 1955; hneman, 1973; and Cherry, 1968) generally are consistent with predictions om Broadbent's filter theory. The theory assumes that a filter sorts multaneous stimuli by obvious physical characteristics, such as position color. Further perceptual analyses are applied only to stimuli which are the property that defines the relevant "channel" or message. This uld certainly not include sexual embeds. Other stimuli are rejected d filtered out. Irrelevant sensory information is stored momentarily

s an "unanalyzed tape recording" but is permanently lost unless a shift f the filter retrieves it from sensory storage. Thus, the material preented to an irrelevant channel is not analyzed in perception, beyond a ew tests on physical features.

Strong evidence was advanced against filter theory soon after it as formulated. Thus, although the theory accounts for the cocktail-party henomenon of selective attention, it fails to explain another common xperience of cocktail parties; the detection of one's own name as soon s it is mentioned in an otherwise ignored conversation. Neisser (1960), or example, developed a visual analogue for this situation. He required ubjects to read coherent text aloud and to ignore words printed in red nder each line of the selected text. Subjects can do this very well. he situation is very similar to ordinary reading, where the lines just bove and below the attended line do not intrude. Neisser also showed hat subjects do not recognize the words presented on the ignored lines, ven when the same word is repeated several times. Two-thirds of his ubjects, however, noticed their own name on a rejected line.

In summary, although the selection of inputs is highly effective, t is imperfect. A relevant input on which attention is focused can e processed effectively even in the presence of irrelevant stimulation. owever, focusing attention on one message does not completely prevent he processing of stimuli on irrelevant channels. There is much evidence hat at least some of these stimuli are analyzed for content. Thus stimuli or which there is high readiness will probably be recognized and for stimulus for which there is not a high readiness, a high probability it ill not be recognized.

A brief survey of the main theories advanced to account for these acts will now be presented.

Broadbent's filter theory is the natural starting point for any iscussion of modern theories of attention. Some of the main features f this theory have already been noted, as well as some of the evidence nat shows it to be incomplete. Briefly, Broadbent assumed a sequence f three elements: a short-term store (S system), a selective filter, and a limited capacity channel (P system). Concurrent stimuli enter to the S system in parallel, and they are analyzed there for physical eatures, such as location. There is no definite limit on the capacity f the S system. The selected filter allows those stimuli that arrive the designated "channel" into the P system.

Filter theory interprets focused attention as setting the filter

> select a certain class of stimuli and to reject all others. Irrelevant

> ssages are simply allowed to decay in the S system without undergoing

> re advanced processing in the P system. Thus, embeds would never even

> processed because they would be filtered out of focused attention.

Filter theory implies that attention cannot be divided, because the system performs no parallel processing of discrete stimuli. This is not me entire picture, however. The evidence listed earlier demonstrates that me content of a subliminal message is identified, at least dimly and the least some of the time.

In an attempt to accommodate the evidence against filter theory, reisman (1955) proposed a modification of that theory which Broadbent obsequently accepted. The modification was simply that filtering is not 1-or-none: the rejected stimulus is merely attenuated, not eradicated.

According to Treisman, a sensory message activates hypothetical lictionary units" in memory. Each unit has a threshold which must be ceeded for perception to occur. The thresholds for highly significant imuli, such as one's name, are permanently lowered. Because of these

riations of thresholds, a word of high significance or high probability lich is presented in an irrelevant channel can be perceived in spite of tenuation.

Treisman's modification of filter theory retained the essential idea at attended and unattended stimuli are treated differently from a very rly stage of analysis. This differential treatment causes a reduction sensitivity for unattended stimuli. In general, unattended items such embeds do not activate the corresponding dictionary units except when e threshold of one of these units is exceptionally low. Also, because xual embeds are emotionally loaded, the respective dictionary units uld have a high threshold.

These theories of attention form the basis for this study. According this theory perception occurs only if the stimuli exceed a given thres-ld. This threshold varies according to the significance and expectability the stimulus. Therefore, subliminal embeds in advertising containing xual images would not be perceived because of their unexpected presence an ad.

Before stating the conclusions that this literature review leads one make concerning embedding in advertising, the specific concept of figure discussed.

Figure and Ground

Some of the differences between figure and ground were classified by pin (1934) as follows: (1) The figure has shape, while the ground is latively shapeless. For example, in figure 1 one does not see the vase on the black regions are the figures. (2) The ground seems to extend a thing, whereas the ground appears like uniform material. (4) The figure

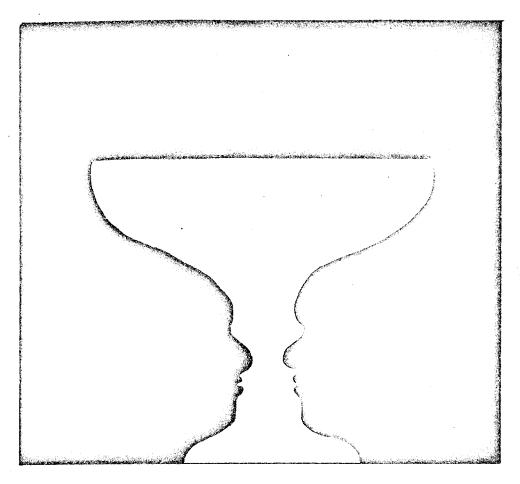


Figure 1. Reversible Goblet

Isually tends to appear in front, the ground behind. (5) The figure is more impressive, more apt to suggest meaning, and better remembered. The first and last points are particularly important for this study. To the limited extent that they are true, an area that is not a figure becomes in effect invisible, and even though it is "objectively" present and in the retinal image, it does not appear to provide a stimulus to which the subject can respond. It is this theory that has significance for this study.

An important concept to be gained from this classification is that what is perceived as figure and what is perceived as ground do not have shape in the same way. In a certain sense, the ground has no shape.

ield which had previously been experienced as ground can function in a prising way when experienced as figure. This effect depends on the new pe, which previously had not been in awareness, and which is now exienced for the first time. This is the fundamental difference between liminal stimuli and figure and ground manipulation. In subliminal, the ected stimulus is not consciously perceived, although as we have seen, may be subconsciously attended to. Figure and ground manipulation, hower, entails the reversing of the selected stimulus from the ground to figure where it is now experienced for the first time.

To characterize the fundamental difference between figure and ground is useful to consider the contour, which is defined as the common border the two fields. One can then state as a fundamental principle: when fields have a common border, and one is seen as figure and the other ground, the immediate perceptual experience is characterized by a uping effect which emerges from the common border of the fields and which erates only on one field, or operates more strongly on one than on the ner. The field which is most affected by the shaping process is figure, other is ground (Rubin, 1934).

As a rule, there is a further difference when an area is seen as gure or as ground, in that when it is experienced as figure it is in neral more impressive than when it is experienced as ground. It domates consciousness; consequently in descriptions, the figure is usually nationed before the ground.

In comparison judgements between two fields, each of which contains gure and ground, subjects report that the figures are similar or different by do not talk about the grounds (Beardslee, 1965). This is true of digements of differences. A natural explanation of why this is also true judgements of similarity (In addition to the factor that figures in

neral are more impressive than grounds) is that the grounds in general not seem as different as the figures. In consequence, statements of nilarity between two grounds are practically meaningless.

Thus, the figure is as a whole, more impressive and dominates conscious is also implies that everything about the figure is recalled better than aracteristics of the ground. For that matter, it is not easy to decide either the fact that details about the ground are difficult to reproduce ter is due to nothing about such details ever having been in consciousness to something having been there but forgotten. In any event it is evident om this discussion of figure and ground manipulation that as long as an ped is presented in the ground of an advertisement, it will not be perived. However, when this embed is pointed out to the viewer, it becomes gigure and the rest of the ad becomes "invisible."

Conclusions

Because of a lack of relevant literature on the sexual type of figure 1 ground embeds discussed here, I have attempted to formulate a theoretica sis for research using three separate areas that have been well researched roughout these three areas (subliminal stimulation, attention and percepting 1 figure and ground) there runs a central and overiding theme.

The first hint of this central theme was given in the review of subninal perception. The work shows that this perception does, under certain
nditions, take place, but that it has never been proven to alter anything
t the most simple kinds of behavior. These negative findings would seem
invalidate the apparent beliefs held by certain advertisers that subninal stimulation can alter buying behavior.

The next clue comes from the discussion of attention and perception pories. These theories would lead us to believe that unexpected stimuli

uch as sexual embeds would not stand much chance of being filtered into ecognition. Attention theory, therefore, would suggest that these embeds n advertising would not be effective.

The last piece of the puzzle comes from the discussion of the concept of figure and ground. This discussion leads to the same conclusion: a sexual embed would not likely be perceived because it is part of the "ground not the "figure."

The overiding theme of this review is that embedding in advertising rould simply not be effective. The observer would not perceive it and therefore not change his attitudes.

This conclusion, drawn from three diverse areas of research, forms theoretical basis for further work. Hence, the hypothesis for this study an now be stated:

HA Figure and Ground Embeds in Print Advertising will have no Significant Attitudinal Effect on Viewers

In other words, the implication of this hypothesis is that advertisin employing subliminal embeds will be ineffective in stimulating desired act at a high this hypothesis may seem to have a negative tone, it will have so sitive implications for advertisers if supported. If supported, a "warn flag" will have been given to advertisers signaling that such embedding made ineffective and inefficient.

CHAPTER III

METHOD AND PROCEDURE

Sample

The sample for this study consisted of 74 undergraduate students lected from Oklahoma State University. The sample was equally divided tween males and females. All of the subjects were enrolled in one of o consumer behavior classes. The subjects were randomly assigned to view ther ads containing sexual embeds or control ads which did not.

The author recognizes the fact that the use of a pre-assembled group ch as OSU undergraduates does not represent the optimal sampling strategy wever, due to the limited resources available, and taking into account e time and monetary constraints, this sampling strategy allowed for an equate initial study. If the results of this initial study warrant rther investigation, the sample will be expanded to include a random mple of households from the Stillwater and surrounding areas.

Measurement of Variables

dependent Variables (Figure and Ground Embedding)

The stimuli for this study were ads taken from national print magazines ch as <u>Good Housekeeping</u> and <u>Time</u>. The ads selected are such that each cludes an overt embed related to sex. It should be noted that the embeds re not chosen for any symbolic content but rather for overt manifestations sexual stimuli. There were two ads used in the study:

Marlboro Cigarettes - This ad portrays the familiar masculine Marlboro Cowboy riding in a riggued mountain setting. Embedded in the mountain range is the image of a penis. This embed is easily recognized after being pointed out and leaves little symbolic content to the viewer's imagination.

Chevis Regal Whiskey - This ad contains a bottle of Chevis Whiskey. Upon closer examination the bottle also contains the figure of a nude woman. The woman's buttocks form the curve below the neck of the bottle. Again, this embed becomes evident after being pointed out.

A matched set of each ad constituted the control. These ads were identical to the experimental ads except the embed had been airbrushed out. The only difference between the test and control ads was the sexual embed. Once this airbrushing was completed 16mm. slides were prepared for each ad. These slides were what the respondents viewed. There were then four different slides:

Slide No. 1 - Marlboro ad containing embed Slide No. 2 - Marlboro ad without embed

Slide No. 3 - Chevis ad containing embed

Slide No. 4 - Chevis ad without embed

<u>Dependent Variables (Attitudinal Effect)</u>

Several item statements were used in a questionnaire form to measure the attitudinal effect of the ads (See Appendix). The items were chosen so as to measure attitudes along four scales (cognitive, affective, behav and sexual).

Each item was measured on a seven-point semantic differential scale. Initially it was thought that (1) the cognitive component would be measur by the trustworthy, informative, and believable items. (2) The affective or liking component would be tapped effectively by the items appealing, attractive, and impressive. (3) The sexual component would be measured by

the sensual, erotic, and exciting items, and (4) that the behavioral component would be captured by the three behavioral intention items at the bottom of the questionnaire, (try product, buy product, actively seek out product).

These initial expectations were almost all confirmed. Once the data collection task was complete, coefficient alpha was calculated for each component, a total score for the component was generated by adding the scores for the items initially defining the component, and the item-to-tot correlations were calculated for each item and each of the four total score item-to-total correlations were calculated for each ad and are shown in Tables I and II.

Table I shows the item-to-total correlations of items composing the final scales used in the Marlboro ad. The item "exciting" was found to be somewhat ambiguous, having only a .546 correlation with the affective scales and a .569 correlation with the sexual scales.

Using the Chevis scales, however, the "exciting" item correlated much better with the other sexual scores, (.788). These item-to-total correlations calculations suggest that the item pools for each component were indeed relatively homogeneous and were related strongly to the total score on the components.

The 12 items used in the questionnaire were thus judged to provide reasonable measures of the four selected attitude scales. Each responden completed two questionnaires, one for each slide he or she viewed. Each questionnaire contained the same set of semantic differential scales.

In order to derive a measure of internal consistency, coefficient alpha was calculated for each component of the questionnaire. Coefficien alpha for the cognative scales was calculated to be .476, alpha for the affective scales was .631, the sexual scales were then calculated

TABLE I

ITEM TO TOTAL CORRELATIONS OF ITEMS COMPOSING FINAL MARLBORO SCALES

	Cognitive Score	Affective Score	Sexual Score	Behavioral Score		
rustworthy	.718*	.191	.128	.233		
ıformative	.790*	005	.232	.191		
elievable	.754*	.360	.211	005		
opealing	.279	.746*	.157	.219		
ttractive	.064	.740*	.047	.035		
npressive	.296	.720*	.395	.010		
ensual	.099	.217	.793*	.139		
rotic	.185	174	.742*	.091		
kciting	.290	.515	.546*	.107		
γ	.203	.086	.112	.892*		
лу	.172	.182	.145	.923*		
∍ek Out	.140	.054	. 178	.932*		

These items were used to generate the total score for that component.

TABLE II

ITEM TO TOTAL CORRELATIONS OF ITEMS COMPOSING FINAL CHEVIS SCALES

	Cognitive Score	Affective Score	Sexual Score	Behavioral Score
ustworthy	.730*	.395	.180	.392
ıformative	.745*	.397	.343	.486
:lievable	.748*	.428	.283	.296
pealing	.506	.851*	.448	.558
tractive	.443	.876*	.485	.538
ıpressive	.464	.833*	.517	.485
nsual	.425	.442	.768*	.319
otic	.091	.194	.699*	.064
citing	.297	.659	.788*	.375
ry	.508	.648	.348	.798*
ıy	.409	.450	.264	.891*
ek Out	.444	.509	.252	.895*

These items were used to generate the total score for that component.

have a coefficient of .454 and the behavioral scales had a coefficient pha of .702.

These coefficients are used to measure the reliability of the questnnaires different components. The affective and behavioral components
of the had relatively high alpha coefficients. The cognitive and sexual
imponents, however, had lower coefficients. These lower scores indicate
of the cognitive and sexual scales were not calculated to be as internall
onsistent as the behavioral and affective items. The coefficients are not
of low though as to affect the results of the study.

In future studies involving these scales, the sexual and cognitive cales should be reevaluated in order to raise the internal consistency of the questionnaire.

Research Design

The hypothesis in this study was tested in a posttest only control roup design. A pretest wasn't utilized because of the attitudinal nature f the experiment. A pretest would unnecessarily sensitize the respondents the advertisements before viewing the experiment itself. Therefore, his experiment was constructed as if the respondents were viewing the adertisement for the first time, just as if they were reading them in a magzine.

Two consumer behavior classes were used in the study. The experiment as performed in a seperate room during the regularly scheduled meeting. ne classes were broken into groups so as to equally divide the number of ales and females that viewed each version of the ads. The four groups llow for any possible interference resulting from the order of presentation hese four groups are:

Group 1 Marlboro with embed - Chevis with embed

Group 2 Marlboro without embed - Chevis without embed

Group 3 Chevis with embed - Marlboro with embed

.Group 4 Chevis without embed - Marlboro without embed

Therefore all sources of extraneous variance such as order of presention, measurement, history, maturation, and regression were controlled for Each group was informed that they were participating in an experiment which they would be asked to evaluate advertisements taken from current sues of national magazines. Each respondent was given two sets of scales e relating to the first ad seen and one to the second. The respondents lled out each questionnaire completely before the second ad was shown.

After the completion of the experiment the respondents were debriefed to the nature of the experiment in which they participated.

Analysis of Data

Eight 2 x 2 x 2 factorial analysis of variances were performed on the ta collected. The factors were version (embed or not), order (Chevis Marlboro shown first), and sex of respondent (male or female). From a seven-point semantic differential scales a total score was computed reach subject with respect to affective, cognative, behavioral, and xual dimensions of attitude by summing the appropriate semantic differential sems. These total scores were used as the criterion variables in a series analysis of variance tables with each component of attitude serving to ame two tables (one for each type of ad). There are four components and ads, hence eight ANOVA tables.

Tables III through VI show the means using the four scales. The means re calculated by summing the various seven-point semantic scales comsing the attitude. Means were also calculated using the differences in der and sex as a basis.

TABLE III
MEANS USING COGNITIVE SCALES

ource of criance	Number	Cognitive Marlboro	Cognitive Chevis
Version			
ıbed	36	12.083	10.500
Embed	39	12.538	10.871
<u>Order</u>	,		
nevis First	40	12.200	10.775
ırlb. First	35	12.457	10.660
Sex		, .	
ıle	38	12.368	11.342
emale	37	12.270	10.027

TABLE IV
MEANS USING AFFECTIVE SCALES

urce of riance	Number	Affective Marlboro	Affective Chevis
Version			
ped	36	15.222	13.416
Embed	39	15.179	13.743
<u>)rder</u>			
evis First	40	14.900	13.925
↑lb. First	35	15.542	13.200
<u>Sex</u>			
le	38	15.289	15.236
nale	37	15.108	11.891

TABLE V
MEANS USING SEXUAL SCALES

urce of riance	Number	Sexual Marlboro	Sexual Chevis
Version			
ıbed	36	11.472	10.361
Embed	39	11.743	11.307
<u>Order</u>			
nevis First	40	11.175	10.775
ırlb. First	35	12.114	10.942
Sex			
ıle	38	10.605	11.736
emale	37	12.648	9.994

TABLE VI
MEANS USING BEHAVIORAL SCALES

urce of riance	Number	Behavioral Marlboro	Behavioral Chevis
Version		-	
bed	36	8.611	11.250
Embed	39	7.820	11.897
Order		•	
evis First	40	8.250	12.075
rlb. First	35	7.828	11.028
<u>Sex</u>			
le	38	8.052	12.710
male	37	8.351	10.432

In each table presented (cognitive, affective, sexual, and behavioral) ne presence or absence of the sexual embed did not result in a significant ifference in the mean score. For example in Table III (cognitive scales) ne difference in mean scores between those who saw the ads containing the mbeds and those who did not was only .455 in the Marlboro ad and .371 in ne Chevis. The same is true in the other tables. Indeed, the largest ifference in mean scores came from the sex factor. The male respondents seemed to rate the Chevis ad higher and the females rated the Marlboro i higher. This will be discussed further in the next section.

The tables indicate that the hypothesized relationship between abedding and the various attitudinal scales is supported. There seems be no difference in respondent's attitudes about the control ads and ne experimental ones.

The analysis of variance performed on the data collected is designed by highlight significant differences due to the experimental manipulation figural embedding. This type of statistical analysis also has the livantage of allowing the experimenter to study the interactive effects the independent variables on the dependent variables. This advantage lows for control of such possible confounding variables as sex and order presentation by incorporating them into the research design. Not only in they be controlled they can yield information of possible value and gnificance.

Because of the small sample size, a particularly low alpha level (.01) is been chosen to indicate statistical significance. This low alpha evel decreases the possibility of making a type II error, which is cepting the null hypothesis when in fact the null hypothesis is false in discome alternative to the null hypothesis is true. In further studies the larger sample, the alpha level could be increased to .05 without

eduction in the power of the test.

TABLE VII

ANALYSIS OF VARIANCE USING COGNITIVE SCORES AS CRITERION MARLBORO AD

Source of Variance	Sum of Squares	Degrees of Freedom	F Value	Pr G.T. F
ersion	3.9	7	.39	0.53
^der	1.3	1	.13	0.72
ersion x Order	5.9	1	.59	0.44
λχ ·	0.1	1	.01	0.92
ersion x Sex	0.8	1	.08	0.77
der x Sex	3.8	1	.39	0.53
x 0 x S	0.2	1	.02	0.88
ror	662.3	67		
otal	678.3	74	<u>.</u>	

The analysis of variance table using cognitive scores as criterion shown in Table VII. As expected there is no significant difference arising the version viewed by the respondents. There was also no difference vising from the order of presentation, sex of respondent or any of the ross products.

The analysis of variance table using cognitive scores as criterion shown in Table VIII. This table was calculated using data obtained from ewers of the Chevis ad. Again there is no statistically significant

fference arising from the presence or absence of the figural embed.

Thus, data collected from the cognative scales about both the Marlboro d the Chevis ads indicates no relationship between embedding.

TABLE VIII

ANALYSIS OF VARIANCE USING COGNITIVE SCORES AS CRITERION CHEVIS AD

Source of Variance	Sum of Squares	Degrees of Freedom	F Value	Pr G.T. F
rsion	2.6]	0.25	.62
der	0.5	1	0.05	.82
rsion x Order	10.5	1	1.31	.31
x	32.1	1	3.11	.08
rsion x Sex	1.6	1	0.16	.69
der x Sex	2.1	. 1	0.20	.65
x 0 x S	0.1	1	0.00	.98
ror	692.4	67		
tal	742.0	. 74		

Tables IX and X show the analysis of variance tables using affective ales as criterion for the two types of ads.

As in the cognitive scales ANOVA tables, there was no significant riance found because of the version (embed or not) shown. However, the Chevis ad there was a statistically significant difference arising

TABLE IX

ANALYSIS OF VARIANCE USING AFFECTIVE SCORES AS CRITERION MARLBORO AD

Source of Variance	Sum of Squares	Degrees of Freedom	F Value	Pr G.T. F
ersion	0.3	1	0.00	.95
rder	7.7	1	0.92	.34
ersion x Order	2.5	1	0.31	.58
эx	0.6	1	0.07	.78
ersion x Sex	8.7	1	1.04	.31
rder x Sex	13.0	1	1.67	.20
x 0 x S	6.6	1	0.78	.37
rror	561.8	67		
otal	601.2	74	,	
		ı	·	

TABLE X:
ANALYSIS OF VARIANCE USING AFFECTIVE SCORES AS CRITERION CHEVIS AD

rce of iance	Sum of Squares	Degrees of Freedom	F Value	Pr G.T. F
on	2.0	1	0.16	.69
	9.7	1	0.77	.38
on x Order	12.4	1	0.99	.32
	207.6	1	16.53	.01*
on x Sex	10.3	1	0.82	.36
x Sex	6.6	1	0.53	.47
·x S	1.8	1	0.14	.70
	841.6	67		
	1092.0	74		

nificant at the .01 level

om the sex of the respondent. The female respondents viewed the Marlboro more favorably, and the male respondents viewed the Chevis ad even more vorably as measured by the affective scales.

Tables XI and XII show the analysis of variance using sexual scores as iterion.

ANALYSIS OF VARIANCE USING SEXUAL SCORES AS CRITERION MARLBORO AD

		, ,	· · · · · · · · · · · · · · · · · · ·	
Source of Variance	Sum of Squares	Degrees of Freedom	F Value	Pr G.T. F
rsion	1.4	1	0.14	.71
der	16.6	1	1.66	.20
rsion x Order	15.4	1	1.55	.21
х	82.4	· 1	8.27	.01*
rsion x Sex	3.1	1 .	0.32	.57
der x Sex	18.2	1	1.83	.18
x 0 x S	7.1	. 1	0.73	.40
ror 618.2		67		
tal	762.4	74 ·		

Significant at the .01 level

Through these analyses it is evident that the presence or absence of me embed made no attitudinal difference along the sexual scales. The only criance that was significant was the sex factor. Again, the females viewe

e Marlboro ad more favorably than the males did and the males perceived to be more sexually stimulating than the Marlboro ad.

TABLE XII

ANALYSIS OF VARIANCE USING SEXUAL SCORES AS CRITERION CHEVIS AD

Source of Variance	Sum of Squares	Degrees of Freedom	F Value	Pr G.T. F
rsion	11.4	1	1.60	.21
der	6.6	1	0.06	.82
rsion x Order	12.8	1	1.23	.27
x	65.2	1	6.27	.01*
rsion x Sex	23.3	1	2.22	.14
der x Sex	0.6	1	0.05	.82
x 0 x S	0.8	1	0.08	.78
ror	701.4	67		
tal	822.1	74		

Significant at the .01 level

Tables XIII and XIV show the analysis of variance using behavioral cores as criterion. No significant variance was detected through these salyses because of the version seen by the subjects. Also, no statistical ignificant difference was found in any of the other factors or cross roducts included in the experiment.

TABLE XIII

ANALYSIS OF VARIANCE USING BEHAVIORAL SCORES AS CRITERION CHEVIS AD

Source of Variance	Sum of Squares	Degrees of Freedom	F Value	Pr G.T. F
rsion	7.8	1	0.42	.52
der	20.2	1	1.07	.30
rsion x Order	0.9	1	0.05	.83
x	95.7	1	5.10	.02
rsion x Sex	4.2	1	0.22	.63
der x Sex	6.6	. 1	0.35	.55
x 0 x S	5.8	1 .	0.31	.58
ror	1258.9	67		
tal	1400.2	74		

TABLE XIV

ANALYSIS OF VARIANCE USING BEHAVIORAL SCALES AS CRITERION MARLBORO AD

Source of Variance	Sum of Squares	Degrees of Freedom	F Value	Pr G.T. F
rsion	11.7	1	0.36	.55
der	9.3	1	0.28	.60
rsion x Order	1.9	1	0.06	.81
x	1.0	1	0.03	.86
rsion x Sex	1.2	1	0.04	.80
der x Sex	1.9	1	0.06	.54
x 0 x S	12.1	1	0.37	
ror	2186.8	67		
tal	2226.0	74		
		•	·	

As can be seen in each of the tables there was no significant differen etween versions of the ad shown (presence or absence of embedding). Thus, he presence of a figural embed made no conscious difference to the responsints who viewed the ad. This analysis means the hypothesis of no different annot be rejected.

Also as expected, there was no statistical difference resulting from ne order of presentation. Although there was a difference in how the two is were perceived by the sexes regardless of the presence of the embed. This would seem to be more a function of the overall image of each ad not anything to do with embedding.

CHAPTER IV

SUMMARY AND CONCLUSIONS

Summary

The objective of this study was to investigate the attitudinal impact sexual embedding in print advertising. Through the work of such researc Key we have seen that advertisers do indeed engage in such embedding specially through the use of figure and ground manipulation. Sexual mages such as male genitals and nude female figures are used in such ads. Ecause of the relative lack of past research in this type of advertising unipulation, three related areas were reviewed in order to come up with theoretical basis for the investigation of figural embedding.

In the related area of subliminal perception, past studies indicated nat subliminal stimulation does take place under certain conditions. However, there is no evidence to indicate that it can alter attitudes or buying behavior. Although subliminal embedding is closely related to this tudy, it does not exactly define the type of subtle stimulation researched in this paper.

Another related area is the field of attention and perception. Through the review of this area, evidence is presented indicating that embeds might be attended to or consciously perceived by the viewer. This evidence based on various theories following Broadbent's filter theory. Embeds bull simply be filtered out and not enter into conscious awareness.

The last area to be researched was figure and ground manipulation.

This concept relates to how the eye views objects, either as the figure or as the ground. The figure represents the main portion of perception while ground is ignored. Because the embeds are present in the ground there is reason to believe they would never be perceived.

The research hypothesis reflected the basis provided by these three areas: Figure and ground embeds in print advertisements would have no significant attitudinal affect on viewers. This hypothesis was then tested using a posttest only control group design. Attitudes were measure along four dimensions (affective, cognitive, behavioral, and sexual) using seven-point semantic differential scales. These scales provided the data for a 2 x 2 x 2 factorial analysis of variance. The factors in this analysis were version, sex of respondent, and order of presentation. A seperate analysis was run on each ad along each attitude component, thus generating eight ANOVA tables.

As a result of the analysis, the null hypothesis could not be rejecte There was indeed, in this study, no significant relationship between figur embedding and attitudes of respondents. Only two relationships were found to be significant at the .01 level, and both of these pertained to the sex of the respondent and the overall feeling about the ad itself, regardless the embed. The Marlboro ad was rated much higher by the females, perhaps because of the "macho" image of the Marlboro Cowboy. The Chevis ad was rated much higher by the males, perhaps because of the words "Who could blyou" in the ad, reflecting a male-dominant theme. In any event, the prese or absence of the embed made no difference, the females always rated the Marlboro ad higher and the males always rated the Chevis ad higher.

Conclusions

The conclusions drawn from the data analysis are not intended to be

e final word in such behavioral studies. This is only a preliminary port using a small sample. However, we can conclude that the research pothesis has been supported by the data collected.

The analysis indicates that there is no attitudinal effect upon ewers of ads containing figural embeds. This conclusion is noteworthy only for the fact that it seems to be in conflict with an abundance of vertising today. The public policy implications of this study are thus bught up: Is figural embedding of sexual images worth the possible ral and social outcry caused by this practice? Perhaps we will never by if the dollar return from such embedding warrants the continuation the practice. It has been this study's objective to provide infortion in order to facilitate a decision for advertisers. Thus a "warning ag" has been issued. The evidence not only from this study, but in past lated research, indicates advertisers should take a long hard look at is practice. Is this figural embedding really cost efficient? The sults of this study indicate that it is not.

Suggestions for Further Research

Certainly this study should be expanded to include a larger sample is a more randomized sampling procedure. The research here could very likely been significantly affected by the use of a pre-assembled group. stated before, this study was only intended to be a preliminary report, ening the door for further, more scientifically controlled work.

Another question that must be asked concerns the method used in report
respondent's attitudes toward the experimental ads. The seven-point

nantic differential questionnaire measures, of course, respondents'

scious feelings. But is this really what completely controls buying

navior? According to attention theory, all of what is perceived is not

consciously attented to. Perhaps what we need to do is measure the subconscious reactions. This could be done through various methods such as the galvanic skin response measures, wherein emotional changes can be letected through changes in skin conductivity. There are other methods substitute pupil measurement that can also record reactions that are not so easily cranslated into conscious thought. This is certainly an area worth exploration and further research in order to develop an understanding of the other memory.

The subject that we have discussed in this report is one that usually arouses emotional reactions. Either you believe as Key does that "Sex is alive and embedded in practically everything," or you think that the whole natter is a product of overactive imaginations, hormones, or both. Whatever the case evidence has been advanced, in a limited concept, that suggests that advertisers may be overreacting to the "language within a language." It is this author's hope that this report serves to initiate new research and stimulate more argument in this fascinating field.

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APPENDIX

tions: The purpose of this study is to measure your reaction to a set of ads taken from national magazines. For each ad, you are to complete the corresponding set of scales. Each set of scales is labeled with the appropriate ad name.

To complete the scales, you would proceed as follows. If you believe that an ad is "very" good, you would place an "X" in the blank corresponding to "very" good as follows:

Extremely Very Moderately Neutral Moderately Very Extremely
d _____ Bad

If you thought the ad was "extremely" bad, you would place the "X" under the "extremely" closest to "bad". Each scale would be viewed as having the labels "extremely" "very" ---- "very" "extremely" associate with it. Please remember that it is your evaluation of the advertisement and not the product that is important.

Ad: Chevis Regal

E ing	xtremely	Very	Moderately	Neutral	Moderately	Very	-	Unappealin
ive								Informativ
ual	<u> </u>		and the second second		Mandagemental patricks along		*	Not sensua
thy				***************************************	**************************************			Trustworth
tic				Georgia Marine, menge	-			Not Erotic
ive	4-2-11-4		**************************************			,	•	Attractive
ive	*******	****	************	 	4_1000000000000000000000000000000000000			Uninformat
ing	•••••			Strategy designation of				Unexciting
ive			**************************************	-	****			Unimpressi
b1e	-				•			Believable
ould	you like	to tr	y this produ	ct?	•			
Def	initely N		t. Very Mo		Mod. Very	Ext.	Yes, Defi	nitely
ould	you buy	this p	roduct if yo	u happene	d to see it	in a s	tore?	
Yes,	Definite	1y					No, Defin	itely Not
ould	you acti	vely s	eek out this	product	in a store a	nd pur	chase it?	
Yes,	Definite	ly			•		No, Defin	itely Not
ex:	Male	Fema	1e					
э уог	ı consume	alcoh	olic beverag	es? Yes	No			

ctions: The purpose of this study is to measure your reaction to a set of ads taken from national magazines. For each ad, you are to complete the corresponding set of scales. Each set of scales is labeled with the appropriate ad name.

To complete the scales, you would proceed as follows. If you believe that an ad is "very: good, you would place an "X" in the blank corresponding to "very" good as follows:

Extremely Very Moderately Neutral Moderately Very Extremely od \underline{X} Bad

If you thought the ad was "extremely" bad, you would place the "X" under the "extremely" closest to "bad". Each scale would be viewed as having the labels "extremely" "very" ---- "very" "extremely" associate with it. Please remember that it is your evaluation of the advertisement and not the product that is important.

			Ad: Mar	lboro Cig	arettes		
E	xtremely	Very	Moderately	Neutral	Moderately	Very	Extremely
ing			***************************************		*************		Unappealir
tive	the contract of the contract o	- 14.14.114.114.114					Informativ
ua1				*	سنسيسس		Not Sensua
rthy	****	*************			****		Trustworth
tic	**********					•	Not Erotic
tive	,			*			Attractive
tive			Marin,				Uninformat
ing		· 					Unexciting
sivė				***			Unimpressi
able	terminate Alberta		****	*			Believable
ou1d	vou like	to try	this produ	ct?			
Jura	you like				Mod. Very	Ext.	
Def	initely N		·-		_		Yes, Definitely
ou1d	you buy	this pr	oduct if yo	u happene	d to see it·	in a s	tore?
ľes,	Definite	1y					No, Definitely Not
ould	you acti	vely se	ek out this	product	in a store a	nd pur	chase it?
ľes,	Definite:	ly					No, Definitely Not
эх:	Male	Femal	e		•		

ATIV

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Master of Business Administration

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