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Interpersonal communication in marketing is approached from a perspective that focuses on communication signs. A classification scheme is presented and relevant literature surveyed. Directions for future research are suggested.

Interpersonal Communication in Marketing: An Overview

A significant proportion of marketing communications involves face-to-face interaction. Nevertheless, the importance of sales or market research interviews is sometimes obscured by such mass communications functions as advertising and publicity.

Marketing research has also emphasized mass, rather than interpersonal, communications. Research effort in advertising far exceeds that in personal selling, a discrepancy only partly attributable to the existence of independent, specialized organizations in advertising. In addition, despite improvements in many areas of marketing research, understanding of the research interview remains inadequate. In the area of interviewer bias, Boyd and Westfall [13, 14, 15], concluded that "despite the obvious need for research . . . dealing with interview bias, the work reported in the literature since 1964 can only be described as sparse, and of the type which adds little to existing knowledge" [15, p. 252].

Lack of research on selling and market research interviews is partly due to the complexity of interpersonal communication. Insufficient interest or support might also be responsible for the research deficit. However, this article takes the view that research may also have been hampered by failure to recognize that, while the purpose of communication clearly differs between the sales and research interviews, they have a variety of elements in common.

This article focuses on such shared communicative behavior by presenting a classification scheme for the subject area and surveying relevant literature in marketing and the behavioral sciences. A framework and sug-

gestions for future research on interpersonal communications in marketing are provided.¹

THE INDIVIDUAL IN COMMUNICATION

Figure 1 illustrates the individual's reception, interpretation, and response in the communications process. In interpersonal communications, part of the total set of stimuli bombarding the sense organs are *signs*, or physical events [21], generated by the other participant. These signs are available for *reception* (A) by the senses (input channels) of the receiver, although not all are received.² This loss is shown by reducing the width of the flow as it leaves the sensory organs. The flow is no longer of signs, but *internal representations* of them.

The next stage in the process is *perception* (B), in which the individual interprets certain internal representations. Of the total flow of representations available for perception, only a certain proportion are consciously perceived.

Selection and interpretation of these representations are dependent not only upon the person's *values, knowledge, motives, and attitudes* (C), but also upon the relationship between the impinging stimuli in his perceptual field. For example, the context of an event may be a far more important determinant of perception than prior beliefs, attitudes, or values.

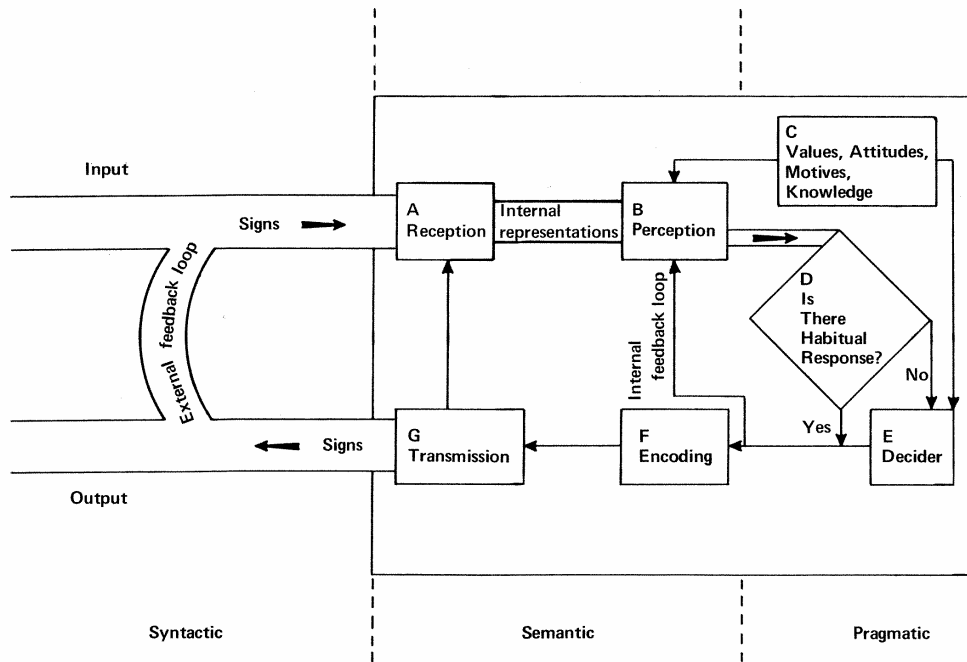
Certain classes of stimuli require no conscious deliberation in responding. The interpreted flow of representations is viewed as being sorted at D: those flowing through the "yes" branch are associated with a *habit-determined response*, eliciting "programmed" responses from the individual. Representations sorted through the

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¹ Interconsumer and intrafirm communications are excluded from the discussion.

² Note that the individual may choose not to expose his sensory organs to certain inputs—a process represented by $E \rightarrow F \rightarrow G \rightarrow A$. Clearly, this phenomenon is closely related to the concept of selective exposure [23].

Figure 1
A PARADIGM OF THE INDIVIDUAL IN COMMUNICATION



"no" branch are consciously *deliberated* (E) before response. Choice of response is moderated by the individual's *values, knowledge, motives, and attitudes* (C). The flow of potential responses emerges from the decider and operates in two ways. First, via the *internal feedback loop*, the flow influences the perception of stimuli which continue to impinge on the organism. Second, potential responses are *encoded* (F) into a form suitable for *transmission* (G) through appropriate verbal or muscular action. Into the latter group fall responses which control the sense organs, and hence *reception* (G → A).

A portion of the response signs are consciously transmitted, but others, not intended for transmission, are also available as stimuli to the other participant. The *external feedback loop* indicates that the individual's sensory system is sensitive to his own output—which can therefore act as input to the system.

The communication paradigm suggests no fundamental differences between mass and interpersonal communications in reception and interpretation of signs.

However, in interpersonal communications the elicited responses are generally immediate and available to the other participant, whose behavior they may modify. Thus, the paradigm serves to focus attention on the dynamics of the interaction as representing the most important distinction between the two types of communication.

The paradigm also illustrates the concepts of *selective exposure* (E → F → G → A) and *selective perception* (C → B and E → B) and emphasizes that these mechanisms can act dynamically during a given communication. For example, a message which begins with stimuli inconsistent with values may be screened out. The feedback loops emphasize the dynamics of interpersonal communications.

This flow of signs (and, implicitly, the relationship between them) corresponds to the *syntactic* domain in communications theory. The relationships between signs, perception, and sign encoding relate closely to the *semantic* category. Finally, the decider function is the equivalent of the *pragmatic* category, where the individ-

CLASSIFICATION SCHEME FOR INTERPERSONAL COMMUNICATION

Receiver role	Sender role			
	A Static, uncontrollable	B Static, controllable	C Dynamic (low frequency)	D Dynamic (high frequency)
1. Visual	a. Physical features (race, sex, age, etc.)	a. Clothing (style, neatness) b. Physical features (hair style, facial hair)	a. Posture b. Axial orientation c. Distance	a. Body movement b. Facial expression c. Eyeline d. Gesture e. Head orientation
2. Auditory	a. Voice set	a. Accent	a. Temporal speech patterning b. Accent c. Voice qualities	a. Vocalizations b. Verbal
3. Tactile and olfactory		a. Personal odor	a. Touching behavior b. Thermal	

ual, having attached meaning to the signs, decides how to use the information [21].

However, only a proportion of signs are intended as communication by the sender, although others are available for reception. Furthermore, signs include far more than verbal stimuli. Indeed, Birdwhistell suggested that literate man's egocentrism has diverted him from the comprehension of communication [8].

We now turn to a review and classification of research in interpersonal communications. While acknowledging the importance of verbal content, the review emphasizes the role played by nonverbal signs which, until fairly recently, had remained comparatively neglected in empirical research.

A CLASSIFICATION SCHEME FOR INTERPERSONAL COMMUNICATIONS RESEARCH

A cross-tabulation of sender's output and receiver's input channels is given in the table. The channels are simply the five senses. However, since tactile and olfactory systems are employed sparingly in interpersonal communication, they are collapsed into one category; taste is excluded.

The signal output classification is between static signs, fixed for the duration of the interaction, and dynamic signs, produced during the course of the interaction. The primary signal classifications are further subdivided:

Static, uncontrollable: a function of hereditary characteristics conditioned by life history, and indicating, for example, sex, race, and apparent age.

Static, controllable: can be controlled between interactions, but is fixed for the duration of the interaction—such as clothing and facial hair.

Dynamic (low frequency): produced during the interaction with low frequency of change—such as posture and interpersonal distance.

Dynamic (high frequency): produced during the

interaction with high frequency of change—such as gestures and facial expression.³

The cross-tabulation produces a 12-celled matrix. Verbal communication occupies only one cell, and a wide variety of behavior, generally described as nonverbal, remains. For an alternative scheme, see [49].

EMPIRICAL RESEARCH IN INTERPERSONAL COMMUNICATIONS: A SELECTIVE REVIEW

One approach to interpersonal communications research focuses on the communication process itself; researchers have attempted to observe and measure output signs and relate them to other variables. Another approach ignores communications signs; researchers have attempted to relate measures of demographic, personality, and attitudinal characteristics directly to the outcome of the interaction. The process of communication is the major topic of this section.

Research in Marketing

Few marketing studies have focused on interpersonal communication and even fewer on the communicative behavior involved. Evans hypothesized that in personal selling the more alike salesman and prospect, the greater the likelihood of a sale. In his study, however, only age and height were communications signs, and the results for these variables were not significant [28].

Gadel concluded that insurance agents concentrated their sales attempts on prospects similar to themselves in age. Thus her research, like Evans', is assigned to Cells A1 and A2. Unfortunately, the data were based on actual sales rather than sales approaches, and the al-

³The high- and low-frequency categories resemble Argyle and Kendon's standing and dynamic features of an interaction [1].

ternative hypothesis of random approaches and selective success therefore invalidates her inference [32].

Chapple and Donald's study focused on dynamic signs. Employing the interaction chronograph, they measured the amount and frequency (not content) of verbal activity of one participant under varying verbal behavior patterns of the other. They alleged that tests on salespeople demonstrated that verbal behavior patterns correlated with sales success [20]. Their claim of predictive validity was supported by Norman [44], and this work, built on Chapple's earlier studies [19], fits neatly into Cell C2.

More recently, Willett and Pennington [57] and Pennington [45] studied the dynamics of interpersonal communication. Both recorded verbal content of salesman-prospect interaction in retail appliance stores; Pennington also recorded nonverbal activity, although no data were presented. Willett and Pennington employed a problem-solving model to analyze verbal content, while Pennington applied a bargaining model. Both studies are assigned to Cell D2.

Webster's summary article discussed interpersonal communications in personal selling, but presented no new empirical findings [56].

The marketing research interview literature also lacks research on the communication process. Most studies have attempted to demonstrate relationships between variables indicated by static, uncontrollable signs and interviewer bias. For example, Thumin found that the sex of the interviewer significantly affected responses: both female and male respondents admitted having insomnia to male interviewers more readily than to female interviewers [52]. Other interviewer bias studies have investigated sex [38, 42], race [3, 16, 38], and age [6, 42]. Despite evidence that other sign categories were important dimensions of interview bias [10], no research effort appears to have resulted.

Research Outside Marketing

While marketers have in general eschewed research on the interpersonal communications process, others have grappled with the problem directly. Three distinct areas, based on Duncan's categorization [24], can be identified:

Paralanguage, which includes voice qualities, speech nonfluencies, and such nonlanguage sounds as laughing, yawning, and grunting.

Body motion, which subsumes kinesics, gestures, and other body movements.

Proxemics, which encompasses the use of space and man's perception of it.

Within each area, two research philosophies have appeared. *Fundamental research* has focused on the development of notation systems for describing behavior, identifying its fundamental elements, and searching for systematic relationships between them. *External variable* studies have sought relationships between specific non-

verbal behavior and other variables such as personality characteristics and the communications environment.

Fundamental Research

Paralanguage. Duncan described Trager's schema of paralinguistic behavior [53] as the most authoritative [24]. The design was based on two principal components, vocal qualities and vocalizations, which together with speech result from a background of voice set (Cell A2):

1. Voice qualities (modifications of all the language and other noises) include pitch range, vocal lip control, articulation control, resonance, and tempo.
2. Vocalizations (variegated noises not having the structure of language) include: (1) vocal characterizers: laughing, crying, moaning, belching, and yawning; (2) vocal qualifiers: intensity, pitch height, and extent; and (3) vocal segregates, such as the English *uh-uh* for negation, *uh-huh* for affirmation, and the *uh* of hesitation.

While others have developed notation systems for paralanguage, there has been little work on the identification of fundamental elements or the relationship between them. Paralanguage may be assigned to the auditory input channel; in terms of Trager's design, voice qualities are placed in Cell C2 and vocalizations in Cell D2.

Body motion/kinesics. Birdwhistell developed a detailed and comprehensive system for transcription of body motion, in which symbols were provided for virtually every human movement. The recording procedure used a set of photographs for the various body parts and a set of symbols for movement and position modifiers [7, 8, 9].

Birdwhistell attempted to develop a coherent structure of body motion. His approach led to the discovery of kinemes and kinemorphs, which combine to form higher level structures, analogous to phonemes, morphemes, and syntactic units in speech. In addition, he discovered "a set of necessary and formal body motion behaviors which are directly tied to linguistic structure" [8, p. 35].

Schefflen studied the relationship between patterns of behavior used in communication [50]. At levels higher than the syntactic sentence, he had some success in identifying standardized units of structure in body motion and verbal behavior. These signs, with which Birdwhistell, Schefflen, and others [22] were concerned, are dynamic, with visual input channels, and hence are classified in Cells C1 and D1.

Proxemics. Hall defined proxemics as "the study of how man unconsciously structures microspace" [34, p. 1003]. His earlier work [33] led to the development of a notation system for eight dimensions: postural-sex identifier, sociofugal-sociopetal orientation, kinesthetic factors, touch, retinal combinations, thermal, olfactory, and voice loudness behavior [34]. For the American culture, Hall described four distinct distances or zones

of human interaction: intimate, personal, social, and public. Human communication modalities have varying functions at these distances [35].

Although paralanguage and body motion studies can be classified into two cells, Hall's proxemic system requires two static and four dynamic cells to be completely classified. Thus he has pictured the interpersonal communications spectrum more broadly, but in less depth, than the body motion or paralanguage workers.

External Variable Research

From the many external variable studies, those most likely to be of interest to marketers are described here. For a more inclusive review, see [24].

Paralanguage. Most research in this area has been performed on hesitation, which is one of Trager's vocal segregates [53]. Hesitation includes such nonfluencies as pauses, stutters, and repetitions and has been shown to be related to the cognitive process of speech encoding [12, 36] and affective states of the individual [11, 43].

Some of the most interesting work involves experimenter bias. Rosenthal and his co-workers' design used an experimenter who read the same set of instructions to each subject, whose responses to a set of neutral visual stimuli were then recorded [46]. A "differential emphasis" score based on elements of the experimenter's intonation and paralanguage was found to be highly correlated with subjects' ratings.

Another experiment tested the hypothesis that the behavior reflected in the differential emphasis score mediated experimenter bias. Subjects received taped instructions from experimenters and the differential emphasis score for each experimenter's instruction set predicted subjects' ratings on the experimental task well.

Studies on hesitation phenomena and experimenter bias fit into Cell D2.

Body motion/kinesics. Working with patients undergoing psychotherapy, Ekman identified relationships between body acts, body position, facial expression, and head orientations and the nature and intensity of emotion [26, 27]. He found that rates of occurrence of specific body acts enabled observers to identify the emotional state of patients at different stages in therapy treatment. He summarized empirical evidence which showed that "information about affect, the ongoing interpersonal relationship, and psychodynamics and ego defenses are provided by nonverbal behavior" [27, p. 213]. Ekman's work is classified in Cells C1 and D1, since his usage of nonverbal behavior refers to the dynamic categories.

A widely investigated category of body motion is visual interaction, which plays an important part in communication. Possible relationships have been studied between visual interaction and: (1) sex of participants, (2) speaking vs. listening, (3) affective quality of the interaction, (4) participants' personality characteristics, and (5) distance between participants.

The most powerful single variable in mediating visual interaction is sex. Exline found distinct visual interaction patterns for male-male and female-female dyads [29, 30, 31], and Argyle, Lalljee, and Cook reported that females were more uncomfortable than males when unable to see the other participant [2]. Under restricted visual conditions, males attempted to exert dominance through greater verbal participation. Efran and Broughton found that subjects required to make presentations to experimenters engaged in more visual interaction with experimenters with whom they conversed just prior to the experiment [25].

In studying interactions between pairs of previously unacquainted British college students, Kendon discovered a regularly recurring pattern of looking when the speaker/hearer roles were exchanged. As one person stopped speaking, he looked at the other; when the first speaker did not follow this pattern, there was a significant tendency for the other person to delay his response or to fail to respond. Kendon suggested four functions of gazing [39]:

1. Cognitive, when subjects look away at difficult encoding points.
2. Monitoring, when subjects look at their interactant to indicate the conclusions of thought acts and to check the interactant's attentiveness and reaction.
3. Regulatory, when responses may be demanded or suppressed by looking.
4. Expressive, when degree of involvement or arousal may be signalled by looking.

Such visual interaction fits into Cell D1.

Proxemics. Hall's notation system was first tested empirically by Watson and Graves, who contrasted the interactions of pairs of Arabic and American students on a number of proxemic dimensions [55]. They found significant differences on all variables, with the Arabs being more intensively interactive.

We reported on a proxemic study of intracultural dyadic interaction [37]—that of salesmen and prospects in department stores. Differences in proxemic behavior by store and by department were confirmed.

Willis investigated initial speaking distance between standing interactants [58]. He found variations as a function of the relationship between the interactants, their sex, age, and race. These results suggest that speaking distance exhibits significant intracultural variation, and is not completely culturally programmed. Nevertheless, distances reported were closely in accord with Hall's postulated distance zones for interactions [35].

Other external variable research. In psychological experiments, Rosenthal [47] identified the "experimenter expectation" effect, reported in the marketing literature by Venkatesan [54]. The experimenter's hypothesis was found to be a significant determinant of his findings, yet analysis of films of interviews eliminated reinforcement as the cause. Using silent films and sound tracks, Rosenthal showed that early in the experiment the visual input

channel was crucial to prediction of the experimenter expectation effect and only later was prediction possible through the auditory channel. Experimenter bias was positively correlated with a number of variables, such as dominance, relaxedness, and likability. However, the direction of correlation often differed for the same variable as judged from the visual and auditory channels. For example, experimenters who later biased subjects' responses were seen as more honest but heard as less honest. The communication involved was evidently complex and unintended by the experimenter, with discrepancies between channels. Attempts to replicate Rosenthal's experiments have produced a recent conflict [4, 5, 41, 48].

The early importance of the visual channel was also suggested by Stone, who stated that identification which takes place visually is an essential prerequisite to communication [51].

INTERPERSONAL COMMUNICATIONS IN MARKETING: A REVISED FOUNDATION

The few empirical marketing studies involving communications signs have focused mainly on static, uncontrollable characteristics. Thus this approach emphasizes selection rather than training for improving sales and research interviewing. However, a more serious problem is that research efforts have been diverted from study of the dynamics of interpersonal communications in marketing.

Figure 2
A SUMMARY MODEL OF INTERPERSONAL COMMUNICATION

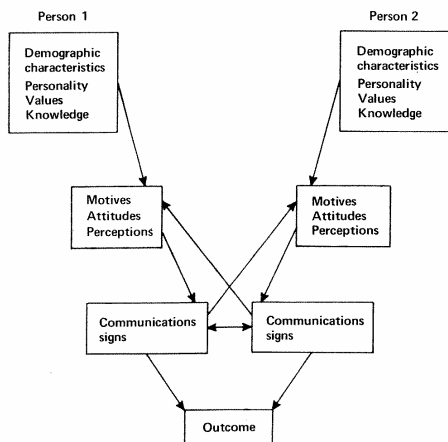


Figure 2, modified from [17, p. 583], illustrates hierarchically the relationship between the individual in communication (Figure 1), the matrix of communications signs (the table), and various external variables. It emphasizes common elements of the sales and research interviews, the interaction of the participants, and the joint nature of the outcome. Communications signs constitute the intervening variables whereby information is transferred.

Much research has demonstrated the importance of nonverbal signs in interpersonal communications. Such signs may be identified, classified, and measured, perhaps more easily than verbal signs. Research which focuses on both verbal and nonverbal signs may permit better modeling of the interaction. Since communications signs are, by definition, observable, problems of operationalization should be more easily solved. The links of interaction outcome to such constructs as motive, attitude, and perception and to more static characteristics of demography, personality, values, and knowledge may be better established through the examination of intervening communications signs, rather than directly.

One short-run effect of such an approach could be direct transfer of results from the behavioral sciences. Rosenthal's findings of the importance of the experimenter's paralinguistic and visual behavior [46] are important for both the market research and sales interview. Methodological benefits could also result. For example, we have used a modified version of Hall's proxemic notation system [31].

While transfer of method and results might influence the course of research on interpersonal communications in marketing, a revised conceptual framework can improve experimental design and yield insights for further research. For example, Levitt's source effect study, which employed a filmed sales interview as the communication, completely ignored the importance of the interpersonal feedback process [40]. Changing this aspect of the design would have more accurately represented the sales interview; see [18]. In marketing research, cost and control benefits of telephone interviewing have increased its use vis-à-vis personal interviewing. Comparative studies of validity do not appear to have been conducted, yet the conceptual scheme permits identification of striking differences between the interview methods, both in terms of output signs and input channels.

CONCLUSION

This article has advocated a communication process approach to research on the selling and market research interviews. The development of one view of the individual in communication served to emphasize the importance of communications signs, many of which are nonverbal. Relevant research on interpersonal communications was then reviewed within the context of an input/output classification scheme.

Despite the fact that this article has stressed elements common to the selling and market research interview, the basic dissimilarities of the two types of interaction will, almost of necessity, lead to separate avenues of research. Nonetheless, the vantage point provided by this article can benefit future research in both areas. It is hoped that the communication process perspective will provide the conceptual and empirical assistance needed to improve understanding of the personal selling and market research interviews.

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ARTICLES ACCEPTED FOR PUBLICATION*

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Can Private Brand Buyers Be Identified?	Phillip C. Burger and Barbara Schott
The Appeal of Buying Black	Dennis H. Gensch and Richard Staelin
A Computer On-Line Marketing Mix Model	Jean-Jacques Lambin
The Majority Effect and Brand Choice	Jean E. Draper and Richard W. Hansen
A Threshold Model of Consumer Purchasing Decisions	Paul Kau and Lowell Hill

* These will appear in some future issue, not necessarily the next one; titles may be changed at publication.