# DOCUMENT RESUME

BD 137 559

CE 010:530:

AUTHOR

Schneider, Benjamin

TITLE

Personnel Selection and Organizational Behavior: An

Integrated View. Research Report No. 14.

INSTITUTION SPORS AGENCY Haryland Univ., College Park. Dept. of Psychology. Office of Waval Research, Arlington, Va. Personnel

and Training Research Programs Office.

61153N; NR-151-375; RR-042-04; RR-042-04-02

BURBAU NO PUB DATE

GRANT HOTE

N00014-75-C-0884

29p.

EDRS PRICE **DESCRIPTORS**  MF-\$0.83 HC-\$2.06 Plus Postage. Ability: Employee Attitudes: Employees: \*Group Behavior; \*Individual Differences; Job Satisfaction; \*Organizational Climate; \*Organizational Theories; Organizations (Groups); \*Personnel Selection; Task

Performance

### ABSTRACT

This paper presents the view that both individual differences-oriented personnel selection researchers and situationally-oriented organizational behaviorists can profit from an examination of each other's theories and findings. Specifically, it is argued that (1) personnel selection researchers will achieve increased levels of predictive validity when situational effects on ability-performance relationships are considered, and (2) organizational behaviorists will better understand why organizational conditions can lead to increased average levels of production and satisfaction when they acknowledge the importance of individual differences in ability. Research evidence of both an empirical and logical nature is presented to support the integration. (Author/WL)

Documents acquired by ERIC include many informal unpublished

<sup>\*</sup> materials not available from other sources. ERIC makes every effort

<sup>\*</sup> to obtain the best copy available. Nevertheless, items of marginal

<sup>\*</sup> reproducibility are often encountered and this affects the quality

<sup>\*</sup> of the microfiche and hardcopy reproductions ERIC makes available.

<sup>\*</sup> via the ERIC Document Reproduction Service (EDRS). EDRS is not \*:responsible for the quality of the original document. Reproductions

supplied by EDRS are the best that can be made from the original. 

Miles All Introducts Vigo

AND DESCRIPTION OF THE PARTY OF

Branch Low No. 1

1974 PARTIES

Bychology s



### SECURITY CLASSIFICATION OF THIS PAGE (When Date Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
Research Report No. 14	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Substite) Personnel. Selection and Organizational Behavior: An Integrated View		5. TYPE OF REPORT & PERIOD COVERED
- Commercial Commercia		6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(e)		8. CONTRACT OR GRANT NUMBER(s)
Benjamin Schneider		N00014-75-C-0884
Department of Psychology University of Maryland College Park, Maryland 20742		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS 61153N RR 042-04; RR 042-04-02 NR 151-375
11. CONTROLLING OFFICE NAME AND ADDRESS		12. REPORT DATE
Personnel and Training Research Programs Office of Naval Research (Code 458)		December, 1976
Arlington, Virginia 22217		21
14. MONITORING AGENCY NAME & ADDRESS(If different from Controlling Office)		.18. SECURITY CLASS. (of this report)
		Unclassified
		154. DECLASSIFICATION/DOWNGRADING

16. DISTRIBUTION STATEMENT (of this Report)

Approved for public release; distribution unlimited.

17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, If different from Report)

#### 18. SUPPLEMENTARY NOTES

Paper served as a basis for talks presented at the Academy of Management Convention, Kansas City, August, 1976 and at the American Institutes for Decision Sciences Convention, San Francisco, November, 1976.

19. KEY WORDS (Centinue on reverse side if necessary and identify by block number)

Personnel Selection, Person x Situation Interaction, Individual Differences, Predicting Performance

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

This paper presents the view that both more individual differences-oriented personnel selection researchers and more situationally-oriented organizational behaviorists can profit from an examination of each other's theories and findings. Specifically, it is argued that: (1) Personnel selection researchers will achieve increased levels of predictive validity when situational effects on ability-performance relationships are considered; and, LLCURITY CLASSIFICATION OF THIS PAGE/When Date Entered)

(2) Organizational behaviorists will better understand why organizational conditions can lead to increased average levels of production and satisfaction when they acknowledge the importance of individual differences in ability. Research evidence of both an empirical and logical nature is presented to support the integration.

4

# Personnel Selection and Organizational Behavior: An Integrated View 7.

# Benjamin Schneider

Department of Psychology and Bureau of Business and Economic Research
University of Maryland, College Park

The major issue in personnel selection research is the accuracy of predictions made possible by the procedures used as a basis for making hiring decisions. In selection terms, accuracy is referred to as validity. In pursuit of increased validity, researchers have devoted their efforts to the development of more precise measurement techniques regarding both predictors (test, interview, simulation) and criteria (turnover, sales style, quality of production). Indeed, to improve prediction capabilities, multiple predictors and multiple or composite criteria are now regularly employed (Dunnette, 1966; Guion, 1965; Schneider, 1976). Of course, under the pressure of current federal legislation, differential validation studies are also required wherein the validity of a selection procedure is verified on, and for, different race and sex subgroups (cf. Guion, 1976) but this issue will not receive attention in the present paper

I would like to thank Chris Argyris, Gini Buxton, Miriam Erez and John Parkington for comments on an earlier version of this paper.

(but see Bartlett, Dachler, Goldstein, & Schneider, Note 1; Howard, Note 2).

Personnel psychologists, then, both academicians and practitioners, have been concerned with refining techniques for selecting a best person from a number of people; their interest has been in how one person differs from another. At the same time, organizational behaviorists have been promoting ideas suggesting that the properties of organizations, not the individual attributes of people, are the important data in predicting and understanding behavior in the work setting. Theory Y, System 4, Consideration, Participation in Decision-Making; we are told that these are the organizational styles that result in increased effort and performance, decreased absenteeism and turnover, increased organizational commitment, decreased worker frustration, increased satisfaction, etc. (cf. Schein, 1970).

Unfortunately, the personnel selection and organizational behavior orientations to understanding and predicting behavior in the work setting have been following parallel rather than overlapping or integrated tracks (Porter, 1966). I shall argue here that there would be definite benefits for both selection and organizational researchers if an integrated view of the causes and correlates of employee behavior were developed. This integrated view would pay

<sup>&</sup>lt;sup>2</sup>Lest one be misled to thinking this dichotomous approach only characterizes behavioral research on work, see Cronbach (1957) and Bowers (1973).

equal attention to individual differences (especially in ability) at the time of selection and to the general style of the organization in which the person will work. The integrated view should result in: (1) Improved validity for selection assessment procedures; and, (2) A basis for understanding why increased levels of performance and satisfaction are found in organizations when certain organizational changes are made.

# Individual Differences in Ability<sup>3</sup>

The most glaring omission in some recent views of the determinants and correlates of performance and satisfaction in work organizations is the concern for individual differences in ability. People do differ from each other in their abilities and these differences are crucial for organizations so far as both employee productivity and satisfaction are concerned. Ability is crucial because its absence cannot be compensated for by increased attention to the social/emotional state of employees. The important point is that lack of ability puts an upper limit on the level of performance a person may attain and, consequently, on that person's chances of being rewarded; failure to be rewarded may lead to dissatisfaction (Lawler & Porter, 1967).

<sup>&</sup>lt;sup>3</sup>I concentrate on ability here but similar arguments about person/situation interaction can be made with respect to other individual attributes (cf. Andrews, 1967; Erez, Note 3; Ilgen, Campbell, Peters, & Fisher, Note 4).

Organizations may gain some control over the productivity and satisfaction of a work force by having carefully developed staffing programs. These programs should include detailed job analyses as a basis for identifying the kinds of abilities people need to perform effectively, the specification of the kinds of performance that indicate effectiveness, development and validation of measures of ability (predictors) and indices of effectiveness (criteria), examination of relationships between predictors and criteria in racial, ethnic and sex subgroups, and utilization of those predictors that demonstrate non-biased validity in making staffing decisions.

These are not trivial matters. Careless electricians, executives with relatively weak administrative capabilities, receptionists with some fine personal assets but low interpersonal competence, and detail men with poor memories for names, may hinder organizational effectiveness through low performance. Such people probably also will experience low job satisfaction.

The techniques personnel researchers have developed for helping match jobs and people constitute the single best <u>proven</u> application of behavioral science technology to the world of work (Campbell, Dunnette, Lawler, & Weick, 1970). However, there has been little progress in the past 35 to 40 years in increasing the predictive accuracy (validity) obtainable through the use of this technology (Ghiselli, 1966; Guion, 1976). Organizations, and personnel researchers themselves, have tended to blame this lack of progress on poor predictors, poor criteria, or both. It may be time to look

beyond the person to the work situation for an explanation of why validity coefficients may be suppressed (Schneider, 1975, 1976)....

# Organizational Behavior

While personnel researchers have recently failed to make significant improvements in validity based on ability measurement, the past 35 years have seen a growth in attention to the socio/emotional side of employees. However, this focus has been on Man with a capital M; the emphasis has not been on how employees differ from each other but on how they are similar (cf. Argyris, 1976).

Beginning with the Hawthorne studies one finds a move away from a focus on individual differences in performance toward a view of what "employees" do, the organizational conditions under which "they" do these things, and attention to work-group, not individual, performance. Although some have been less than complimentary about them (cf. Carey, 1973), the Hawthorne studies are generally thought to have provided the impetus for the view that group pressure ("binging") can keep work-group performance down, while "attention" increases average performance (cf. Schein, 1970). Later commentaries on Man's social/emotional need states have also been thought of as emphasizing the similarities in people. Likert (1961, 1967) and his colleagues (cf. Katz & Kahn, 1966) after all, concentrated on Man's social needs; McGregor (1960), building on Maslow's (1954) writings, has clearly stressed Man's need for self-expression. However, these conceptual positions not only treat Man as having simi-

lar needs and desires, but, as practical theories, they concentrate on Man's socio/emotional needs as ways of "getting at" or "triggering" him to work up to his potential, to be what he can be.

I think this last idea of "triggering" or "getting at" potential is the critical lever to understanding how the sciences of personnel selection and organizational behavior may be integrated.

Scholars of the Humanist orientation such as McGregor (1960),

Argyris (1957), Likert (1961, 1967) and especially Maslow (1954),

have not only been concerned with the emotional state of people.

The emotional state was important to these authors because they assumed that negative affective states inhibit the display of man's potential. Organizational conditions, these commentators would note, can either facilitate or inhibit the display of ability and most organizations, through their practices and procedures, create jobs and climates which inhibit people from displaying their abilities.

McGregor (1960, p. 48) for example, listed as two of his six Theory Y assumptions:

- (a) "The capacity to exercise a relatively high degree of imagination, ingenuity, and creativity in the solution of organizational problems is widely, not narrowly, distributed in the population." (Italics mine)
- (b) "Under the conditions of modern industrial life, the <u>intel</u>lectural potentialities of the average human being are only partially
  utilized." (Italics mine)

Note here the emphasis in (a) on the distribution of ability

(Not everyone has equal ability) and, in (b) the constraints modern industrial life puts on those differences (if one has averages, one has differences) being allowed to be expressed.

Following our earlier logic, if people are not allowed to work up to their ability, or their maximum potential, then the very tests of ability used to predict their performance will not be as valid as they could be. We may now consider in detail how the situation may impact on the validity of an ability test.

# Situational Effects on the Ability-Performance Relationship

I make the assumption that the cause of our inability to improve the level of validity coefficients obtained when predicting job performance is that most organizations do not reward, support or really even require people to display their maximum individual differences in ability on the job.

Consider the typical assembly-line factory job, for example.

Each worker on the line is rewarded for doing the same thing as every other worker; indeed he or she is required to work at the same page, he or she receives the same pay, reports for work at the same time, and so forth. Some pre-employment measure that reveals individual differences in ability cannot be expected to correlate very well with performance on the job because people on the job are required to behave in highly similar ways. And if the organization does not require similar behavior, then other workers already on the job, through social pressure, will. Here, recall again how co-workers

in the Relay Assembly Room at Hawthorne were able to keep everyone producing at the same level through "binging" and other forms of social pressure.

Lest we think the requiring of common behavior only applies to assembly line workers, picture the plight of new management trainees. Perhaps they were hired after an Assessment Center or a battery of tests and interviews. In the selection process, these new management trainees were probably encouraged to "do your best" on the various tests. But how many management trainees are actually placed in positions where they can "do their best?" Some are rather assigned to routine tasks with previously established routine solutions.

Oddly enough, another frequent way of insuring that management trainees cannot do their best is to give them assignments which are at an extreme level of difficulty, almost certain to result in failure. These "socialization" experiences of new management trainees tend to insure similar behavior (Schein, 1971). Through the adoption of the organization's way of doing things deviance is minimized; people conform and behave alike.

A number of researchers have documented the generally high turnover rates of new college graduates because of the lack of stimulation and challenge they experience in their first jobs as management
trainees (Porter, Crampon, & Smith, Note 5; Schein, 1971). Yet the
basis for initial selection was most likely some prediction about
how they would respond to challenge or how capable they were to
handle a particular level of responsibility!

Asking the selection process to predict performance that is not the behavior required by the job is not a fair test of the ability to predict long-term individual job effectiveness. The job, and more importantly the job situation, must be one which rewards, supports, expects and encourages people to do their best.

Forehand (1968) has written about some interesting findings regarding this discussion. He obtained climate descriptions of government organizations regarding their tendency to be rules-oriented or to emphasize group participation in decision-making. In both kinds of organizations he obtained peer ratings of employees with respect to their innovativeness. He correlated nine different tests of intellectual capability with the peer ratings and found that 8 of the 9 were significantly correlated with innovativeness in the group-participation condition while none of them were significantly related to the criterion of effectiveness in the rulescentered condition. He (1968, p. 67) argued that our future research efforts

...should ask about the interaction of person variables and environmental variables, and should consider environmental variation in terms of the degree to which they demand or constrain the operation of personal characteristics.

Dunnette (Note 6, p. 25), a long-time advocate of an individual differences-oriented approach to understanding employee behavior, has recently reached a conclusion similar to Forehand's:

An employer's major goal, quite simply, should be to do everything he can to assure ("allow") each employee to give full expression to his abilities, skills, and aptitudes.

Dunnette reached this conclusion after reviewing a number of studies in which he (and others) showed that the best predictor of performance was an ability measure when organizational practices rewarded the display of individual differences in ability. When organizations rewarded people inequitably (either through under or overreward) or the reward system (pay) was on an hourly basis (rather than rewarding people for what they, as individuals, accomplished in the hour), ability was relatively uncorrelated with performance.

Schneider (Note 7) has recently shown that life insurance agencies can be clustered into types on the basis of their climate. One type of agency is reminiscent of McGregor's Theory Y and Likert's System 4 kind of organization—high on supervisory support, low on interpersonal conflict, high on individual autonomy and concern for the individual. The productivity and retention of new agents entering this type of Theory Y/System 4 agency was superior to the others. In keeping with my argument, the predictability of which agents would succeed was also better in this kind of agency.

Further evidence comes from a massive survey prepared by Ghiselli (1966, 1973) on the validity of tests in predicting performance in the work setting. Because Ghiselli found that tests were overwhelm-

ingly better predictors of training performance than for predicting on-the-job performance, he presented both kinds of data in his very useful monograph.

one which allows for the display of more individual differences than the job permits. Indeed there is a consistent finding that training increases the range of individual differences in a group of people. We can hypothesize that because training magnifies individual differences, tests of individual differences are able to predict training performance. Once on the job people may respond to a climate which requires routine rather than individualized behavior but, since the tests are designed to predict differences in job behavior, they are not useful when people must behave similarly. The difference between the behavior required in training, and behavior required on the job may also account for the low relationships found between training performance and on-the-job performance.

The job itself can impact on the predictability of performance. In an innovative study Howard (Note 2) compared the predictability of rated performance using ability test scores alone or in combination with ratings of the reward characteristics of the task at which the person worked. Using Hackman and Oldham's (1975) Job Diagnostic Survey (JDS), Howard showed that knowing the way a person viewed the job they worked at added significantly to the predictability of performance based on ability tests alone (see also Berlew & Hall, 1966).

Taken together these studies offer strong evidence for the idea that an organization's climate for individual differences can have a significant impact on the extent to which ability measures will be reflected in performance. In short, these results argue for the idea that the validity of selection and placement predictions depends on both the quality of the procedures used as a basis for the prediction and the climate in which the individual will eventually work.

# On Understanding Increased Average Levels of Performance and Satisfaction

Achieving increased prediction-of-performance capability may be alright but most organizations are concerned with increasing average levels of performance and some are also interested in increased levels of job satisfaction. Interestingly, the kinds of conditions under which organizational behaviorists report such positive outcomes are very similar to those outlined above for increasing selection procedure validity coefficients: Reward for performance (Lawler, 1973), autonomy at work (Alderfer, 1972), lack of inter-personal conflict (Argyris, 1962), a climate of participation and support (Hall & Schneider, 1973), and so forth. Reference to Figure 1 helps provide an explanation for this complimentarity of findings.

Figure 1 presents two scatter diagrams that represent joint distributions of ability and performance. In one case, portrayed in

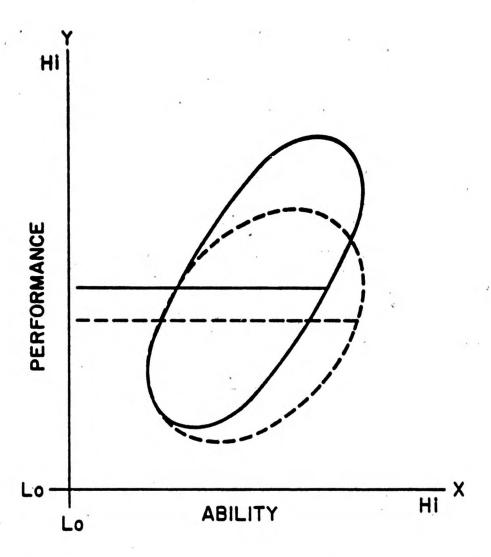


Fig. 1. Schematic for understanding increased average levels of performance when the ability-performance relationship is improved.

between ability and performance is weak but positive. Also indicated with a dotted line is the average performance level for all people within the boundaries of the dotted line scattergram.

The second bivariate distribution in Figure 1, enclosed with a solid line, reveals a stronger ability-performance relationship.

Note that this second distribution is narrower and extends higher on the performance dimension than the first distribution. That is, although the area within both distributions is similar, the distribution with the solid line represents a movement of people with higher levels of ability to higher levels of performance. Thus, low performing high ability people are now portrayed as high performers.

Note that this changes not only the strength of the relationship between ability and performance but also changes the average level of performance for the group. I hypothesize that this is precisely what happens when the kinds of organizational conditions discussed above exist in the work setting. Thus, what I propose is that under such conditions people are more likely to work up to their ability. Since work group performance is simply a function of how individuals perform, when those at the top of the ability distribution produce at a level that is commensurate with their potential then total work group performance must be generally higher than when high ability people perform below capacity.

Increased levels of satisfaction should also follow. The idea

ing that on challenging and enriching jobs, in more supportive organizations, and in organizations which reward people as individuals, employees tend to be more satisfied.

One suspects that organizations have defined rigid rules of behavior for their employees so that they can gain control over individual differences; so they can accurately predict the behavior of aggregates of employees. It is paradoxical, but nevertheless apparently true, that just the opposite kind of orientation towards people, i.e., creating a climate supporting and rewarding the display of their abilities, will yield the same predictability of behavior with the added benefit of having higher average production and a more satisfied work force. Thus, although the potential to control behavior will have been taken away from management in a climate for individual differences, because accurate predictions will be possible, control would seem to be less necessary. It is precisely this lack of organizationally imposed control that should yield the more satisfied work force.

# In Conclusion

Wise personnel selection decisions are at the foundation of an effective organizational behavior program in the work setting.

People without requisite abilities cannot do their jobs effectively; attention only to their social/emotional state will not be helpful in producing a productive and satisfied work force.

On the other hand, appropriate organizational behavior practices can reward, support and encourage people to display the abilities they have. A good personnel selection system in such an organization will more likely be valid with concommintant higher levels of production and satisfaction.

# Reference Notes

- Bartlett, C. J., Dachler, H. P., Goldstein, I. L., & Schneider,
   B. Enhancing the ability-performance relationship: A study of some psychological and contextual factors affecting total group and differential validity. Unpublished manuscript, University of Maryland, Department of Psychology, 1974.
- 2. Howard, A. <u>Intrinsic motivation and its determinants as factors</u>
  enhancing the prediction of job performance from ability. Unpublished manuscript, University of Maryland, Department of Psychology, 1976.
- 3. Erez, M. Feedback: A necessary condition for the goal-settingperformance relationship. Unpublished manuscript, University of Maryland, Department of Psychology, 1976.
- 4. Ilgen, D. R., Campbell, D. J., Peters, L. H., & Fisher, C. D.

  Work role perceptions: Their affective and behavioral consequences. Unpublished manuscript, Purdue University, Department of Psychological Sciences, 1975.
- 5. Porter, L. W., Crampon, W. J., & Smith, F. J. <u>Organizational</u>

  <u>commitment and managerial turnover</u>: A <u>longitudinal study</u>. Unpublished manuscript, University of California (Irvine), School of Administration, 1972.
- Dunnette, M. D. <u>Performance equals ability and what?</u> University of Minnesota, Department of Psychology, Technical Report No. 4009, 1973.

7. Schneider, B. Organizational type, organizational success, and the prediction of individual performance. Unpublished manuscript, University of Maryland, Department of Psychology, 1974.

# References

- Alderfer, C. P. <u>Human needs in organizational settings</u>. New York: Free Press, 1972.
- Andrews, J. D. W. The achievement motive and advancement in two types of organizations. <u>Journal of Personality and Social Psychology</u>, 1967, <u>6</u>, 163-168.
- Argyris, C. Personality and organization. New York: Harper, 1957.
- Argyris, C. <u>Interpersonal competence and organizational effective-</u>
  ness. Homewood, Ill.: Irwin, 1962.
- Argyris, C. Problems and new directions for industrial psychology.

  In, M. D. Dunnette (Ed.), Handbook of industrial and organizational psychology. Chicago: Rand McNally, 1976.
- Berlew, D. E., & Hall, D. T. The socialization of managers: Effects of expectations on performance. <u>Administrative Science Quarterly</u>, 1966, 11, 207-223.
- Bowers, K. S. Situationism in psychology: An analysis and critique.

  Psychological Review, 1973, 80, 307-336.
- Campbell, J. P., Dunnette, M. D., Lawler, E. E., III, & Weick, K. E.,

  Jr. Managerial behavior, performance, and effectiveness. New

  York: McGraw-Hill, 1970.
- Carey, A. The Hawthorne studies: A radical criticism. American Sociological Review, 1967, 32, 408-416.
- Cronbach, L. J. The two disciplines of scientific psychology.

  American Psychologist, 1957, 12, 671-684.

- Dunnette, M. D. <u>Personnel selection and placement</u>. Belmont, Calif.: Wadsworth, 1966.
- Forehand, G. A. On the interaction of persons and organizations.

  In, R. Taguiri and G. Litwin (Eds.), <u>Organizational climate</u>:

  <u>Explorations of a concept</u>. Boston: Division of Research,

  Harvard Business School, 1968.
- Ghiselli, E. E. <u>The validity of occupational aptitude tests</u>. New York: Wiley, 1966.
- Ghiselli, E. E. The validity of aptitude tests in personnel selection.

  Personnel Psychology, 1973, 26, 461-478.
- Guion, R. M. Personnel testing. New York: McGraw-Hill, 1965.
- Guion, R. M. Recruiting, selection and job placement. In, M. D.

  Dunnette (Ed.), <u>Handbook of industrial and organizational</u>

  psychology. Chicago: Rand McNally, 1976.
- Hackman, J. R., & Oldham, G. R. Development of the Job Diagnostic Survey. Journal of Applied Psychology, 1975, 60, 159-170.
- Hall, D. T., & Schneider, B. <u>Organizational climates and careers</u>:

  The work lives of priests. New York: Seminar Press, 1973.
- Katz, D., & Kahn, R. L. The social psychology of organizations.

  New York: Wiley, 1966.
- Lawler, E. E., III. <u>Motivation in work organizations</u>. Monterey, Calif.: Brooks/Cole, 1973.
- Lawler, E. E., III, & Porter, L. W. The effect of performance on job satisfaction. <u>Industrial Relations</u>, 1967, 7, 20-28.
- Likert, R. New patterns in management. New York: McGraw-Hill, 1961.

- Likert, R. The human organization: Its management and value. New York: McGraw-Hill, 1967.
- Maslow, A. H. Motivation and personality. New York: Harper, 1954.
- McGregor, D. M. The human side of enterprise. New York: McGraw-Hill, 1960.
- Porter, L. W. Personnel management. <u>Annual Review of Psychology</u>, 1966, 17, 395-422.
- Schein, E. H. <u>Organizational psychology</u> (rev. ed.). Englewood Cliffs, N.J.: Prentice-Hall, 1970.
- Schein, E. H. Organizational socialization and the profession of management. In, D. A. Kolb, I. M. Rubin, and J. M. McIntyre (Eds.), Organizational psychology: A book of readings. Englewood Cliffs, N.J.: Prentice-Hall, 1971.
- Schneider, B. Organizational climates: An essay. <u>Personnel</u>
  Psychology, 1975, 28, 447-479.
- Schneider, B. <u>Staffing organizations</u>. Pacific Palisades, Calif.: Goodyear Publishing Co., 1976.

#### Distribution List

#### 3000

- 4 Br. Mershell J. Ferr, Director - Personnel and Training Research - Programs Office of Nevel Research (Code 458) Arlington, VA 22217
- 1 OMR Branch Office 495 Summer Street Boston, MA 02210 ATTN: Dr. James Lester
- 1 OMR Srench Office 1930 East Green Street Posedons, CA 91101 ATTN: Dr. Eugene Gloye
- 1 OMR Brench Office 536 South Clark Street Chicago, IL 60605 ATTN: Dr. Cherles E. Davis
- 1 Dr. M. A. Bertin, Scientific Director Office of Nevel Research Scientific Liaison Group/Tokyo American Embessy APO San Francisco 96503
- 1 Office of Nevel Research Code 200 Arlington, VA 22217
- 6 Director Nevel Research Laboratory Code 2627 Washington, DC 20390
- 1 Technical Director Nevy Personnel Research and Development Center San Diego, CA 92152
- 1 Special Assistant for Enlisted Force
   Analysis
   Bureau of Neval Personnel (Pers 2x)
   Room 2628, Arlington Annex
   Meshington, DC 20370
- 1 Assistant Deputy Chief of Nevel Personnel for Retention Analysis and Coordination (Pers 12) Room 2403, Arlington Annex Washington, DC 20370
- 1 CDR J. L. Johnson, USH Havel Amphibious School Little Creek Hovel Amphibious Base Horfolk, VA 23521
- 1 LCDR Cherles J. Theisen, Jr., MSC, USN 4024 Nevel Air Development Center Worminster, PA 18974
- 1 Commending Officer U.S. Nevel Amphibious School Corenedo, CA 92155

- 1 COR Paul D. Helson, MSC, USM Naval Medical R&D Command (Code 44) National Naval Medical Center Bethesde, MD 20014
  - Commending Officer Nevel Health Research Center Sen Diego, CA 92152 WITH: Library
- Cheirmen
  Schevlerel Science Department
  Nevel Command & Monagement Division
  U.S. Nevel Academy
  Annapalis, ND 21402
- 1 Chief of Nevel Education & Training Nevel Air Station Pensacola, FL 32508 ATTN: CAPT Bruce Stone, USN
- Mr. Arnold I. Rubinstein Human Resources Program Manager Neval Material Command (03/4) Room 1044, Crystal Plaza #5 Washington, DC 20360
- 1 Dr. Jack R. Borsting
  U.S. Nevel Postgraduate School
  Department of Operations Research
  Monterey, CA 93940
- 1 Mr. Meurice Callehen NOOAC (Code 2) Department of the Nevy Sidg. 2, Weshington Nevy Yard (Anecostie) Weshington, DC 20374
- 1 Office of Civillen Menpower Menagement Code 64 Meshington, DC 20390 ATTM: Dr. Richard J. Niehaus
- 1 Office of Civilian Henpower Management Code 263 Weshington, DC 20390
- 1 Chief of Nevel Reserve Code 3055 New Orleans, LA 70146
- 1 Assistant to the Assistant Deputy Chief of Nevel Operations (Menpower) Heed, MAMPS Project Office Room 1606, Arlington Annex Meshington, DC 20370 ATTN: Dr. Herry H. West
- 1 Superintendent Nevel Postgraduate School Monterey, CA 93940 ATTN: Library (Code 2124)
  - 1 Mr. George N. Graine Nevel Sea Systems Commend SEA 047C12 Weshington, DC 20362

- 1 Chief of Nevel Technical Training Nevel Air Station Mamphis (75) Hillington, TN 38054 ATTH: Dr. Morman J. Korr
- 1 Principal Civilian Advisor for Education and Training Neval Training Commend, Code COA Pensacola, FL 32508 ATTN: Dr. Milliam L. Maley
- 1 Director Treining Analysis & Evaluation Group Code N-ODt Department of the Nevy Orlendo, FL 32813 ATTN: Dr. Alfred F. Smade
- 1 Chief of Nevel Education and Training Support (OIA) Pensecola, FL 32509
- 1 LCOR C. F. Logen, USF F-14 Menogement System CONFITATIONINGMC MAS Miremer, CA 92145
- 1 Nevy Personnel Research and Development Center Code Ol San Diego, CA \$2152
- 5 Nevy Personnel Research and Davelopment Center Code 02 San Diego, CA 92152 ATTN: A. A. Sjoholm
- 2 Nevy Personnel Research and Development Center Code 310 San Diego, CA 92152 ATTN: Dr. Martin F. Wiskoff
- 1 Dr. Robert Horrison Hevy Personnel Research and Development Conter, Code 301 Sen Diego, CA 92152
- 1 Nevy Personnel Research and Development Center Sen Diego, CA 92152 ATTN: Library
- 1 O. M. Gragg, CAPT, MC, USM Head, Educational Programs Development Department: Neval Health Sciences Education and Training Command Bethesda, MB 20014
- 1 Mr. Victor N. Brown, Director Career Training Analysis Group Chief of Mavel Education and Training (Code MS4) Navel Air Station Pensacola, FL 32507

## Army

- ) Technical Director
  U.S. Army Research Institute for the
  Behavioral and Social Sciences
  2-1300 Wilson Beuleverd
  Arlington, VA 22209
- 1 Headquerters
  U.S. Army Administration Center
  Personnel Administration Combat
  Development Activity
  ATCP-MAQ
  Ft. Benjamin Herrison, IN 46249
- l Armed Forces Staff College Herfolk, VA 23511 ATTN: Library
- 1. Commendant U.S. Army Infentry School Fort Benning, GA 31905 ATTN: ATSH-DET
- 1 Deputy Commender U.S. Army Institute of Administration Fort Benjamin Herrison, IN 46216 ATTN: EA
- 1 Dr. Raiph Ousek U.S. Army Research Institute for the Behavioral and Social Sciences 1300 Wilson Boulevard Arlington, VA 22209
- 1 Dr. Joseph Merd U.S. Army Research Institute for the Behavioral and Social Sciences 1300 Wilson Boulevard Arlington, VA 22209
- I HQ USAREUR & 7th Army ODCSOPS USAREUR Director of GED APO New York 09403
- 1 ARI Field Unit Leavenworth Post Office Box 3122 Fort Leavenworth, KS 66027
- 1 Dr. Ralph Canter U.S. Army Research Institute for the Behavioral and Social Sciences 1300 Wilson Boulevard Arlington, VA 22209
- 1 Dr. Milton S. Katz, Chief Individual Training & Performance Evaluation .U.S. Army Research Institute for the Behavioral and Social Sciences 1300 Wilson Boulevard Arlington, VA 22209

## Air Force

- 1 Research Branch AF/DPMYAR Randolph AFB, TX 78148
- 1 Dr. G. A. Eckstrand (AFHRL/AST) Wright-Patterson AFB Ohio 45433

- 1 AFMRL/DOJN Stop #63 Lackland AFB, TX 78236
- 1 Dr. Hertin Rockwey (AFHRL/TT) Lowry AFB Coloredo 80230
- 1 Instructional Technology Branch AF Human Resources Leboratory Lowry AFB, CO 80230
- 1 Dr. Alfred R. Fregly AFOSR/NL 1400 Wilson Boulevard Arlington, VA 22209
- 1 AFHRL/PED Stpp #63 Lackland AFB, TX 78236
- 1 Major Weyne S. Seilman Chief of Personnel Testing HQ USAF/DPMYP Rendolph AFB, TX 78148
- 1 Air University Library AUL/LSE 76-443 Mexicall AFB, AL 36112

#### Marine Corps

- 1 Director, Office of Manpower
  Utilization
  Headquarters, Marine Corps (Code MPU)
  MCB (Building 2009)
  Quantico, VA 22134
- 1 Dr. A. L. Slafkosky Scientific Advisor (Code RD-1) Headquarters, U.S. Marine Corps Washington, DC 20380
- 1 Chief, Academic Department Education Center Marine Corps Development and Education Command Marine Corps Base Quantico, VA 22134
- 1 Mr. E. A. Dover 2711 South Veitch Street Arlington, VA 22206

#### Coast Guard

Nr. Joseph J. Cowen, Chief Psychological Research Branch (G-P-1/62) U.S. Coast Guard Headquarters Washington, DC 20590

# Other DOD

1 Dr. Robert Young Advanced Research Projects Agency Cynbernetics Technology, Room 625 1400 Wilson Boulevard Arlington, VA 22209

- 1 Mr. Frederick W. Suffa Chief, Recruiting and Retention Evaluation Office of the Assistant Secretary of Defense, MARA Room 30970, Pentagon Washington, DC 20301
- 12' Defense Documentation Center Cameron Station, Building 5 Alexandria, VA 22314 ATTN: TC
- 1 Hillery Assistant for Human Resources Office of the Director of Defense Research and Engineering Room 3D129, The Pentagon Weshington, DC 20301
- 1 Director, Menagement information Systems Office OSD (MERA) 38917, The Pentagon Washington, DC 20301

#### Other Government

- 1 Dr. Lorraine D. Eyde Personnel Research and Development Center U.S. Civil Service Commission 1900 E Street, N.W. Mashington, DC 20415
- 1 Dr. William Gorham, Director Personnel Research and Development Center U.S. Civil Service Commission 1900 E Street, N.W. Washington, DC 20415
- 1 Dr. Vern Urry
  Personnel Research and
  Development Center
  U.S. Civil Service Commission
  1900 E Street, N.W.
  Washington, DC 20415
- 1 U.S. Civil Service Commission Federal Office Building Chicago Regional Staff Division Regional Psychologist 230 South Dearborn Street Chicago, IL 60604 ATTN: C.S. Winiewicz
  - Dr. Carl Frederiksen
    Learning Division, Basic Skills
    Group
    National Institute of Education
    1200 19th Street, N.W.
    Washington, DC 20208
- 1 Dr. Joseph L. Young National Science Foundation 1800 G Street, N.W. Weshington, DC 20550

#### Miscel laneous

- 1 Or. Gereld V. Berrett University of Akron Department of Psychology Akron, OH 44325
- 1 Or. Bernard M. Bess University of Rochester Graduate School of Management Rochester, NY 14627
- 1/ Century Research Corporation 4113 Lee Highway Arlington, VA 22207
- 1 Dr. A. Chernes 868 512 University of Texas Austin, TX 78712
- 1 Dr. Kenneth E. Clark University of Rochester College of Arts and Sciences River Campus Station Rochester, NY 14627
- 1 Dr. Norman Cliff University of Southern California Department of Psychology University Park Los Angeles, CA 90007
- 1 Dean W. W. Cooper Carnegie-Hellon University School of Urban and Public Affairs Pittsburgh, PA 15213
- Or. Joseph E. Champoux School of Business & Administration The University of New Mexico Alburquerque, NM 87131
- 1 Dr. Rene! V. Dawis University of Minnesota Department of Psychology Minneapolls, MN 55455
- 1 Dr. Norman R. Dixon 200 South Craig Street University of Pittsburgh Pittsburgh, PA 15260
- 1 Or. Robert Dubin
  University of California
  Graduate School of Administration
  Irvine, CA 92664
- I Dr. Marvin D. Dunnette University of Minnesota Department of Psychology Minneapolis, MN 55455
- Processing and Reference Facility
  4833 Rugby Avenue
  Bethesda, MD 20014
- Or. Barry M. Feinberg
   Bureau of Social Science Research, Inc. 1990 M Street. N.W. Washington, OC 20036

- 1 Or, Victor Fields
  Montgomery College
  Department of Psychology
  Rockville, MD 20850
- 1 Or. Edwin A. Fleishman Advanced Research Resources Organization #603 8555 Sixteenth Street Silver Spring, MD 20910
- 1 Or. Robert Glaser, Co-Director University of Pittsburgh 3939 O'Here Street Pittsburgh, PA 15213
- 1 Dr. Richard S. Hatch Decision Systems Associates, Inc. 5640 Nicholson Lane Rockville, MD 20852
- l Dr. H. D. Havron
  ' Human Sciences Research, Inc.
  7710 Old Spring House Road
  West Gate Industrial Park
  McLean, VA 22101
- 1 HumRRO Central Division 400 Plaza Building Pace Boulevard at Fairfield Drive Pensacola, FL 32505
- 1 HumRRO/Western Division 27857 Berwick Orive Carmel, CA 93921 ATTN: Library
- 1 HumRRO/Western Division 27857 Berwick Drive Carmel, CA 93921 ATTN: Dr. Robert Vineberg
- 1 Dr. Lawrence B. Johnson Lawrence Johnson & Associates, Inc. 2001 S Street, N.W., Suite 502 Washington, DC 20009
- 1 Dr. Sigmund Tobias Ph.D. Programs in Education Graduate Center City University of New York 33 West 42nd Street New York, NY 10036
- 1 Mr. W. E. Lassiter
  Data Solutions Corporation
  6849 Old Dominion Drive, Suite 211
  McLean, VA 22101
- 1 Dr. Frederick M. Lord Educational Testing Service Princeton, NJ 08540
- 1 Dr. Ernest J. McCormick
  Purdue University
  Department of Psychological Sciences
  Lafayette, IN 47907

- 1 Or. Robert R. Mackie Human Factors Research, Inc. 6780 Corton Drive Santa Berbara Research Park Goleta, CA 93017
- 1 Mr. Edmond Merks 315 Old Main Pennsylvania State University University Park, PA 16802
- 1 Dr. Leo Munday, Vice President American College Testing Program P.O. Box 168 Lowe City, IA 52240
- 1 Mr. Luigi Petrullo 2431 North Edgewood Street Arlington, VA 22207
- 1 Dr. Steven M. Pine University of Minnesota Department of Psychology Minneapolis, MN 55455
- 1 Dr. Lyman W. Porter, Dean University of California Graduate School of Administration Irvine, CA 92650
- I Dr. Diane M. Ramsey-Klee R-K Research & System Design 3947 Ridgemont Drive Malibu, CA 90265
- 1 Dr. Joseph W. Rigney University of Southern California Behavioral Technology Laboratories 3717 South Grand Los Angeles, CA 90007
- J Dr. Leonerd L. Rosenbaum; Chairman Montgomery Gollege Department of Psychology Rockville, MD 20850
- 1 Dr. George E. Rowland Rowland and Company, Inc. P.O. Box 61 Haddonfield, NJ 08033
- Dr. Arthur I. Siegel Applied Psychological Services 404 East Lancaster Avenue Wayne, PA 19087
- 1 Or. Henry P. Sims, Jr. Room 630-Business Indiana University Bloomington, IN 47401
- 1 Dr. C. Harold Stone 1428 Virginia Avenue Glendale, CA 91202
- 1 Mr. Dennis J. Sullivan c/o HAISC, Building 119, M.S. 2 P.O. Box 90515 Los Angeles, CA 90009

- 1 Dr. John R. Frederiksen Bolt, Beranek & Newman, Inc. 50 Moulton Street Cambridge, MA 02133
- I Dr. Devid J. Weiss University of Minnesota Department of Psychology M660 Elliott Hell Minneapolis, MN 55455
- 1 Mr. George Wheeton American Institutes for Research 3301 New Mexico Avenue, N.W. Washington, DC 20016
- 1 Dr. K. Mescourt Stanford University Institute for Methematical Studies In the Social Sciences Stanford, CA 94305
- 1 Richard T. Mowday College of Business Administration University of Nebrasks, Lincoln Lincoln, NE 68588
- 1 Dr. John J. Collins Vice President Essex Corporation 6305 Caminito Estrellado San Diego, CA 92120
- l Dr. Lyle Schoenfeldt School of Management Rensselær Polytechnic Institute Troy, NY 12181
- 1 Dr. Patrick Suppes, Director institute for Mathematical Studies in the Social Sciences Stanford University Stanford, CA 94305
- Dr. Andrew M. Rose American Institutes for Research 3301 New Mexico Avenue, N.W. Washington, DC 20016
- 1 Major I. N. Evonic Canadian Forces Personnel Applied Research Unit 1107 Avenue Road Toronto, Ontario, Canada