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ABSTRACT

In order to assess the effect of T-Group sensitivity training on teacher attitudes, 25 elementary and secondary school teachers were given the Minnesota Teacher Attitude Inventory (MTAI) both before and after a 10-week T-Group program. A control group of 16 teachers taking an inservice course in Iroquois Indian History was used. Results showed that the control group's test scores remained the same or decreased slightly, while the experimental group's scores increased five to 20 percentile points. The greatest increase was shown by secondary school teachers of academic subjects. It may possibly be inferred that the T-Group training caused the increase in scores, but further research must be done to determine whether this training causes any actual changes in the teacher's classroom behavior. One approach would be pre- and posttesting of student attitudes to the teacher undergoing T-Group sensitivity training. (Four pages of teacher comments on the T-Group experience are appended.) (RT)

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T-GROUP METHOD OF SENSITIVITY TRAINING:  
ITS EFFECT ON TEACHER ATTITUDES  
AS INDICATED ON THE  
MINNESOTA TEACHER ATTITUDE INVENTORY

Report of a Study of the  
Three Village Central School District #1  
Setauket, New York 11785

By  
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Director of Guidance

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## FOREWORD

Sensitivity training and a host of other group experiences have of late been enthusiastically received by educators as a tool for increasing self-understanding and affecting deep-seated attitudes beyond the reach of the more traditional educational techniques. The project reported herein was successful. It should be noted, however, that the leaders were well trained in the procedures employed. Counselors should cross the line which distinguishes group counseling and similar group techniques from group guidance and instruction with caution, and only after verifying this skill with recognized authorities.

This study was undertaken and reported by Daniel B. Sweeney,  
Director of Guidance, Three Village Central School District.

The T-Group method of sensitivity training has become a popular management training device. Such organizations as the National Training Laboratory (N.T.L.) and the Western Training Laboratories have been conducting programs for business managers and executives since the late nineteen forties.<sup>1</sup> Many colleges and universities have included T-Groups as part of the curriculum in business education, public administration, education, and psychology.

"The T-Group is formed for individual learning purposes where the data are created and analyzed by group work and not fed in from the outside and interpreted by a teacher, where learning is a group task entered into jointly, where the trainer does not deny the group the experience of creating and maintaining their own group even though this experience will be difficult and may produce anxiety. Out of this experience are realized the two major goals of the T-Group, -- learning how to learn and learning how to become more effective in giving and receiving help. The process of developing the learning group and of acquiring membership skills provides the raw data from which to achieve these goals."<sup>2</sup> Discussions taking place in the T-Group concern the "feeling level," are the here and now aspect of individual and group existence, a theory based on observations by the N.T.L. to enhance one's self-insight and ability to communicate with others. An individual's ability to communicate with others is based primarily on his awareness of his emotions and the emotions of others.

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1. National Training Laboratories, 21st Annual Summer Laboratories, Washington, D.C. 1967.
  2. Ibid. p. 12

Problems arise, not because emotions are present, but because they are ill-used. People get into trouble not because they have emotions, (emotions are healthy) but because of mistaken attempts to repress, distort, or disguise their true emotions.<sup>3</sup>

Many times, people refuse to question their "conceptual system of existence" which has served them in the past, for fear of insecurity or losing face. This is unhealthy as the individual is forced to increase his defenses to prove to himself that the outside world cannot force him to change.

In the T-Group, a miniature society is formed in which trust is built up among the members allowing each individual, and the group as a whole, to experience new conceptual relationships without fear of misinterpretations.

Campbell and Dunnette (1968) outlined the most common objectives of the practitioners of the T-Group method:

1. Increased self-insight or self-awareness concerning one's own behavior and its meaning in a social context.
2. Increased sensitivity to the behavior of others.
3. Increased awareness and understanding of the types of processes that facilitate or inhibit group functioning and the interactions between different groups.
4. Heightened diagnostic skill in social, interpersonal, and inter-group situations.

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3. Ibid p. 15

5. Increased action skill. This refers to a person's ability to intervene successfully in inter- or intragroup situations to increase member satisfactions, effectiveness, or output.
6. Learning how to learn. This refers to an individual's ability to analyze continually his own interpersonal behavior for the purpose of helping himself and others achieve more effective and satisfying interpersonal relationships.<sup>4</sup>

A review of the current educational literature reveals a lack of research on the T-Group method of sensitivity training application in elementary and secondary education.

Counselors in the Village Central School District, Setauket, who had experience with T-Groups, volunteered to work with teachers in the inservice program. This study was undertaken to provide some evaluative measure of T-Group experiences for teachers in an inservice program. The program goals indicate a somewhat different emphasis than those summarized by Campbell and Dunnette, emphasizing the individual objectives of fostering self-awareness and sensitivity. Consequently, the five factors seen as important broad objectives of the human relations laboratories (National Training Laboratories), were more appropriate:

1. Self-insight
2. Better understanding of other persons and awareness of one's impact on them.

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4. J.D. Campbell and M.D. Dunnette, Effectiveness of T-Group Experience in Managerial Training and Development, Psychological Bulletin, Vol. 70, August 1968, p. 73-104.



3. Better understanding of group processes and increased skill in achieving group effectiveness.
4. Increased recognition of the characteristics of larger social systems.
5. Greater awareness of the dynamics of change.<sup>5</sup>

#### PROCEDURES

In an attempt to measure teacher attitude change before and after a T-Group sensitivity training experience the Minnesota Teacher Attitude Inventory was selected. This inventory was designed to measure those attitudes of a teacher which predict how well he will get along with pupils in interpersonal relationships, and indirectly, how well satisfied he will be with teaching as a vocation. The attitudes of a teacher are the result of the interaction of a multitude of factors including academic and social intelligence, general knowledge and abilities, social skills, personality traits, energy, value, and teaching techniques. It can be assumed, therefore, that attitudes afford a key to the prediction of the type of social atmosphere a teacher will maintain in the classroom. Teacher-pupil attitudes are simply indicators of the teacher's classroom behavior and the mere introduction of better attitudes by instruction may not produce any change in behavior.<sup>6</sup>

The subjects in this study are 25 teachers in the Three Village Central School District, Setauket, New York, who had signed up for a two

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5. National Training Laboratories, 1967, p. 2

6. The Psychological Corporation, MTAI Manual, p. 3-4



credit inservice course entitled "Human Relations," briefly described as an experience in T-Group sensitivity training. Fourteen are secondary school academic subject teachers with 5 years or more training, six are elementary school teachers with 4 or more years of training in a system which includes more than 21 teachers, and five are secondary teachers of nonacademic areas with 5 years or more of training. Most of the teachers were aware of the nature of the course from discussions with previous participants (the course was offered last year to 23 teachers in the district in the inservice program). It is safe to assume that most of this year's participants selected the program with a fair idea of what to expect and with a genuine desire to improve their teaching performance.

The control group was made up of 16 teachers from the same district enrolled in an inservice course in Iroquois Indian History. Eight of these teachers are secondary academic teachers, seven are elementary teachers, and one is a nonacademic secondary school teacher. Both courses were offered during the fall semester.

The 25 teachers in the Human Relations course were divided in a random fashion into two groups, one of 13 and the other of 12 members. Each group was to meet weekly for 10 weeks for 2-hour sessions with two counselors from the Three Village guidance staff. The course was concluded with a 12-hour marathon for each group. All four counselors had had extensive T-Group sensitivity training experience for over a year on a weekly basis, as well as marathon experiences.

During the first meeting, participants in the inservice courses in Human Relations, and in Iroquois Indian History were administered the Minnesota Teacher Attitude Inventory. The procedure was repeated at the

conclusion of the inservice program. The results of the initial test and the posttest for both programs were then compared. The teachers who participated in the T-Group sensitivity training program were also requested to relate their feelings regarding their experience in anecdotal comments. Certain of these comments are included at the end of the report and provide a very important evaluative function since they reveal, from the participant's own view, what he gained from the experience.

## RESULTS

From a comparison of the pretest and posttest for the experimental group certain inferences may be made. The relatively high (76.1) mean percentile rank for the elementary teachers and the (68.0) mean percentile rank for the nonacademic group may be due to several factors. The teachers attracted to the inservice course in T-Group sensitivity training knew something about the course from last year's participants. Further, they were interested in a course which might help them become better teachers. The majority enrolled in the inservice course already possessed attitudes sought in the M.T.A.I. The nonacademic group included three School Nurse Teachers, a category not tested in establishing the M.T.A.I. norms. The increase in these two groups (elementary teachers and nonacademic secondary teachers), in terms of their mean percentile ranks, is not as interesting as the increase in the secondary academic group. (Pretest mean percentile rank 44.1 -- Posttest rank 64.0.)

The control group's comparison pretest and posttest indicates a narrow decrease in the elementary teachers (pretest 44.3 -- posttest 43.0) mean percentile ranks. The lone nonacademic teacher repeated his score on both tests. The secondary academic group went down from a mean percentile rank of 40.0 to 37.8.

In comparing the experimental group results with the control group, it may be inferred that, as a result of the T-Group sensitivity training experience, the mean percentile ranks for all three groups (elementary, secondary, and nonacademic) increased. In terms of the secondary academic, the increase was quite substantial.

That the T-Group sensitivity training experience produced the marked increase in the mean percentile of the academic group can only be cautiously inferred until a more detailed statistical analysis is completed. However, the inservice course in T-Group sensitivity training enabled the participants to have an emotional experience, as evidenced by the anecdotal comments. These may be potentially more significant than the pretesting and posttesting with an attitude inventory. The study focus was on teacher attitudes. What is needed, among many other possible approaches, is a focus on pupil perception of the teacher prior to T-Group sensitivity training and then after the experience. It may be that the learning which the teacher experiences, the insight, the awareness, etc., may not always be brought out from the group experience to the classroom. This carry over should be the major goal of any sensitivity training for educators. There is also some indication that mixing elementary teachers with secondary school teachers in T-Group experiences is beneficial.

In this district, for example, the elementary teachers began with (as indicated by the M.T.A.I.) a much higher degree of satisfaction from interprofessional relationships than their counterparts in secondary school. The significant increase in the secondary academic teachers performance on the M.T.A.I., although dramatic, is only one important aspect of the study.

EXPERIMENTAL GROUP

N = 25 (total) Pretest Minnesota Teacher Attitude Inventory Form A

	<u>Elementary Teachers</u> <u>4 Years Training</u>	<u>Secondary Teachers</u> <u>Academic</u> <u>5 Years Training</u>	<u>Nonacademic</u> <u>5 Years Training</u>
N	6	14	5
Mean			
Percentile Rank	76.1	44.1	68.0

EXPERIMENTAL GROUP

N = 25 (total) Posttest

	<u>Elementary Teachers</u> <u>4 Years Training</u>	<u>Secondary Teachers</u> <u>Academic</u> <u>5 Years Training</u>	<u>Nonacademic</u> <u>5 Years Training</u>
N	6	14	5
Mean			
Percentile Rank	80.1	64.0	73.7

CONTROL GROUP

N = 16 (total) Pretest

Elementary Teachers

4 years Training

N 7

Mean  
Percentile Rank 44.3

Secondary Teachers

Academic  
5 Years Training

Nonacademic  
5 Years Training

8 1

40.0 60.0

CONTROL GROUP

N = 16 (total) Posttest

Elementary Teachers

4 Years Training

N 7

Mean  
Percentile Rank 43.0

Secondary Teachers

Academic  
5 Years Training

Nonacademic  
5 Years Training

8 1

37.8 60.0

## TEACHER COMMENTS

1. My experiences during this course were, in many ways, the most meaningful I have ever had in my life. To get so deeply involved and to care so much for a group of people who only weeks before had been strangers, is truly a tremendous thing. I discovered strengths and weaknesses in myself that I had long hidden, mirrored and even magnified in others. The feeling of acceptance and freedom obtained in this course will not soon be forgotten.

When you discover that others have faults and fears much like your own, you develop a certain confidence in your ability to get along in this world. This confidence can only help to make you better in a profession where you are "on stage" at all times. Now that I can face and accept some of my shortcomings, I know I'll better be able to accept shortcomings in my students and colleagues.

2. I believe the course has been beneficial because I have been able to talk about the problems that have been affecting me and hear the group's reaction. The group has forced me to think of different solutions to these problems. However, nothing has been imposed upon me. Just alternatives to think of.

I also believe that I am a little more sensitive to other people and their needs. At least, I wish to believe I am. I hope I am.

3. From the beginning of the course I began to realize that communication of this type was far more difficult than I had anticipated -- it required courage to speak out, people are inhibited, etc. Somehow,



though, it seemed very worthwhile once I had overcome the shock of giving up part of myself.

The main value of the course is to achieve a deeper awareness of the feelings of others and oneself. In order to benefit in any way, it was essential to participate through listening or speaking -- both are skills which have to be developed.

4. Although I enjoyed and profited from the sessions, they made me very anxious and ill-at-ease. On many occasions, I had wanted to contribute more, but was fearful that what I had to say would not "come out right." I think this was because I did not feel comfortable with several members of the group. I didn't feel that they would be sympathetic, or even accept what I had to say. I think I am more aware of people's feelings and also very conscious of how aware others are of my feelings.

5. I think the real value of this course was in the re-learning of over-riding tensions, problems, and experience within us all. Participants felt a need to participate, and the mutual trust generated within and by the group, made even those reluctant at first, able to come forth.

I personally think it made us all aware of our facilities as human beings and more sensitive to the needs of others.

6. Initial Impression: Similar experience as the student's "speak out" where individuals express opinions about certain issues important to them. School, teachers, etc.

During class sessions: Experienced a deeper involvement -- which is beyond a superficial level -- people becoming more emotionally involved

-- and committing themselves to certain ideals and values. People began to open up and let down defenses.

Final Impression: Gained awareness to other people's "hang-ups," became more trusting -- group grew closer -- people were more willing to get involved and help other individuals.

7. Perhaps the occasional feelings of anxiety which were aroused in me could be called negative results. On the positive side, there was greater awareness of feelings -- my own and others, hopefully more sensitivity to others' feelings, and positive sharing of previously unexpressed feelings carried over to the home situation.

8. Prior to entering the group I had been very concerned about the ability of people to communicate in general, and specifically I was concerned about my own ability to be sensitive toward others.

After the first few meetings I began to feel disappointed. I felt that the people involved were not really exerting or extending themselves. This frustrated me. Apparently I had counted on the group a great deal and when it was not living up to my expectations I started to try and direct the situations a little to try and cause what I thought should happen to happen.

The marathon session was the fulfillment of my expectations. People really began to relate and I felt a great sense of relief. People shifted from aggressive types of reactions to some real attempts at understanding. There was a real feeling of humanness.

9. I was very apprehensive during the early sessions, hoping and

fearing that the group would "get to" me. When it did, I was very frightened and lost most of the composure with which I usually view others. Following that, I began to look forward to the meetings with pleasure. I found the group very supportive and it gave me the courage to say things openly that I normally kept to myself. I felt that I was in really close touch with others and enjoyed the experience.

## REFERENCES

- Adorno, T. W., Frenkel-Brunswik, E., Levinson, D. J., & Sanford, R. M. The authoritarian personality. New York: Harper, 1950.
- Allport, G. W., Vernon, P.E., & Lindzey, G. Manual study of values. (3rd ed.) Boston: Houghton-Mifflin, 1960.
- Argyris, C. Interpersonal competence and organizational behavior. Homewood, Ill.,: Irwin, 1962.
- Argyris, C. T-groups for organizational effectiveness. Harvard Business Review, 1964, 42(2), 60-74.
- Argyris, C. Explorations in interpersonal competence - II. Journal of Applied Behavioral Science, 1965, 1, 255-269.
- Argyris, C. On the future of laboratory education. Journal of Applied Behavioral Science, 1967, 3, 153-182.
- Bass, B. M. Mood changes during a management training laboratory. Journal of Applied Psychology, 1962, 46, 361-364.
- Bass, B. M. Reactions to Twelve Angry Men as a measure of sensitivity training. Journal of Applied Psychology, 1962, 46, 120-124. (b)
- Bass, B. M. The anarchist movement and the T-group. Journal of Applied Behavioral Science, 1967, 3, 211-226.
- Baumgartel, H. & Goldstein, J. W. Need and value shifts in college training groups. Journal of Applied Behavioral Science, 1967, 3, 87-101.
- Beer, M., & Kleisath, S. W. The effects of the Managerial Grid lab on organizational and leadership dimensions. In S. S. Zalkind (Chm.), Research on the impact of using different laboratory methods for interpersonal and organizational change. Symposium presented at the meeting of the American Psychological Association, Washington, D. C., September 1967.
- Benne, K. D. History of the T-group in the laboratory setting. In L. D. Bradford, J. R. Gibb, & K. D. Benne (Eds.), T-group theory and laboratory method. New York: Wiley, 1964.
- Bennis, W., Burke, R., Cutter, H., Harrington, H., & Holfman, J. A note on some problems of measurement and prediction in a training group. Group Psychotherapy, 1957, 10, 328-341.
- Berzon, B. & Solomon, L. N. Research frontier: The self-directed therapeutic group-three studies. Journal of Counseling Psychology, 1966, 13, 491-497.

- Bion, W. R. Experiences in groups. New York: Basic Books, 1959.
- Blake, R. R., & Mouton, J. S. The instrumented training laboratory. In I. R. Wechsler & E. H. Schein (Eds.), Issues in human relations training. Washington, D. C.: National Training Laboratories-National Education Association, 1962.
- Blake, R. R., & Mouton, J. S. Improving organizational problem solving through increasing the flow and utilization of new ideas. Training Directors Journal, 1963, 17(9), 48-57.
- Blake, R. R. & Mouton, J. S. The Management Grid. Houston: Gulf, 1964.
- Blake, R. R. & Mouton, J. S. Some effects of Managerial Grid seminar training on union and management attitudes toward supervision. Journal of Applied Behavioral Science, 1966, 2, 387-400.
- Blake, R. R., Mouton, J. S., Barnes, L. B., & Greiner, L. E. Breakthrough in organization development. Harvard Business Review, 1964, 42(6), 133-155.
- Blansfield, M. G. Depth analysis of organizational life. California Management Review, 1962, 5, 29-42.
- Boyd, J. B., & Elliss, J. D. Findings of research into senior management seminars. Toronto: Hydro-Electric Power Commission of Ontario, 1962.
- Bradford, L. P., Gibb, J. R., & Benne, K. D. T-group theory and laboratory method. New York: Wiley, 1964.
- Buchanan, P. C. Organizational development following major retrenchment. New York: Yeshiva, 1964. (Mimeo)
- Buchanan, P. C. Evaluating the effectiveness of laboratory training in industry. In, Explorations in human relations training and research. No. 1. Washington, D. C.: National Training Laboratories-National Education Association, 1965.
- Buchanan, P. C. & Brunstetter, P. H. A research approach to management development: II. Journal of the American Society of Training Directors, 1959, 13, 18-27.
- Bugental, J. R. T. & Tannenbaum, R. Sensitivity training and being motivated. Los Angeles: University of California, Institute of Industrial Relations, 1963.
- Bunker, D. R. Individual applications of laboratory training. Journal of Applied Behavioral Science, 1965, 1, 131-148.
- Bunker, D. R. & Knowles, E. S. Comparison of behavioral changes resulting from human relations training laboratories of different lengths. Journal of Applied Behavioral Science, 1967, 2, 505-524.

- Burke, H. L. & Bennis, W. G. Changes in perception of self and others during human relations training. *Human Relations*, 1961, 14, 165-182.
- Campbell, D. T. & Fiske, D. W. Convergent and discriminant validation by the multi-trait, multi-method matrix. *Psychological Bulletin*, 1959, 56, 81-105.
- Campbell, J. P. Management training: The development of managerial effectiveness. Greensboro, N. C.: The Richardson Foundation, 1966.
- Campbell, P. P. & Dunnette, M. D. Effectiveness of T-Group Experiences in Managerial Training and Development. *Psychological Bulletin*, 1968, 70, 73-104.
- Clark, J. V. & Culbert, S. A. Mutually therapeutic perception and self-awareness in a T-group. *Journal of Applied Behavioral Science*, 1965, 1, 180-194.
- Cline, V. B. Interpersonal perception. In B. A. Maher (Ed.), *Progress in experimental personality research*. New York: Academic Press, 1964.
- Cohen, K. J., Dill, W. R., Kuehn, A. A., & Winters, P. R. The Carnegie Tech Management Game: An experiment in business education. Homewood, Ill.: Irwin, 1964.
- Cronbach, L. J. Processes affecting scores on "understanding of others" and "assumed similarity". *Psychological Bulletin*, 1955, 52, 177-193.
- Deese, J. The psychology of learning. New York: McGraw-Hill, 1958.
- Dollard, J. & Miller, N. E. Personality and psychotherapy: An analysis in terms of learning, thinking and culture. New York: McGraw-Hill, 1950.
- Drotning, J. E. (State University of N. Y., Buffalo) Sensitivity Training: Some critical questions. *Personnel Journal*, 1966, 45(10), 604-606.
- Dukes, W. F. N=1. *Psychological Bulletin*, 1965, 64, 74-79.
- Dunnette, M. D. Personnel management. *Annual Review of Psychology*, 1962, 13, 285-314.
- Fleishman, E. A., Harris, F. F., & Burt, H. E. Leadership and supervision in industry. Columbus: Ohio State University, Personnel Research Board, 1955.
- Foundation for Research on Human Behavior. An action research program for organization improvement. Ann Arbor, Mich.: Author, 1960.
- French, J. R. P., Jr., Sherwood, J. J., & Bradford, D. L. Changes in self-identity in a management training conference. *Journal of Applied Behavioral Science*, 1966, 2, 210-218.



- Friedlander, F. The impact of organizational training laboratories upon the effectiveness and interaction of ongoing work groups. *Personnel Psychology*, 1968, in press.
- Gage, N. L. & Cronbach, L. J. Conceptual and methodological problems in interpersonal perception. *Psychological Review*, 1955, 62, 411-422.
- Gage, N. L. & Exline, R. V. Social perception and effectiveness in discussion groups. *Human Relations*, 1953, 6, 381-396.
- Gassner, S., Gold, J., & Snadowsky, A. M. Changes in the phenomenal field as a result of human relations training. *Journal of Psychology*, 1964, 58, 33-41.
- Geitgey, D. A., (University of California, Los Angeles) A study of some effects of sensitivity training on the performance of students in associate degree programs of nursing education. *Dissertation Abstracts*, 1966, 27 (6B 2000-2001).
- Gough, H. *California Psychological Inventory manual*. Palo Alto, California: Consulting Psychologists Press, 1957.
- Grater, M. Changes in self and other attitudes in a leadership training group. *Personnel and Guidance Journal*, 1959, 37, 493-496.
- Greening, T. C. (Psychological Service Association, Los Angeles, California) Sensitivity Training: Cult or contribution? *Personality*, 1964, 41 (3) 18-25.
- Grossman, Len & Clark, D. H. Sensitivity Training for Teachers: A small group approach. *Psychology in the Schools*, 1967, 4 (3) 267-271.
- Haire, M., Ghiselli, E. E., & Porter, L. W. *Managerial thinking*. New York: Wiley, 1966.
- Hampden-Turner, C. H. An existential "learning theory" and the integration of T-group research. *Journal of Applied Behavioral Science*, 1966, 2, 367-386.
- Harrison, R. Import of laboratory on perceptions of others by the experimental group. In C. Argyris, *Interpersonal competence and organizational behavior*. Homewood, Ill.: Irwin, 1962.
- Harrison, R. Cognitive change and participation in a sensitivity training laboratory. *Journal of Consulting Psychology*, 1966, 30, 517-520.
- Harrison, R. & Lubin, B. Personal style, group composition, and learning. *Journal of Applied Behavioral Science*, 1965, 1, 286-301.
- House, R. J. T-group education and leadership effectiveness: A review of the empirical literature and a critical evaluation. *Personnel Psychology*, 1967, 20, 1-32.



- Kassarjian, H. H. Social character and sensitivity training. *Journal of Applied Behavioral Science*, 1965, 1, 433-440.
- Kernan, J. P. Laboratory human relations training: Its effect on the "personality" of supervisory engineers. *Dissertation Abstracts*, 1964, 25, (1), 665-666.
- Kimble, G. A. Hilgard and Marquis' "Conditioning and learning". (2nd ed.) New York: Appleton-Century-Crofts, 1961.
- Klaw, S. Two weeks in a T-group. *Fortune*, 1961, 64 (8), 114-117.
- Kuriloff, A. H. & Atkins, S. T-group for a work team. *Journal of Applied Behavioral Science*, 1966, 2, 63-94.
- Larkin, M. & Carson (Duke University) Participant perception of group process in group sensitivity training. *International Journal of Psychotherapy*, 1964, 14 (1) 116-122.
- Lewin, K. Group decision and social change. In T. Newcomb & E. Hartley (Eds.), *Readings in social psychology*. New York: Holt, Rinehart & Winston, 1947.
- Lohman, K., Zenger, J. H., & Weschler, I. R. Some perceptual changes during sensitivity training. *Journal of Educational Research*, 1959, 53, 28-31.
- Marow, A. J. Behind the executive mask. N. Y. C.: American Management Association, 1964. p.143.
- Martin, H. O. The assessment of training. *Personnel Management*, 1957, 39, 88-93.
- Maslow, A. H. *Eupsychian management: A journal*. Homewood, Ill.: Irwin, 1965.
- Mathis, A. G. "Trainability" as a function of individual valency pattern. In D. Stock & H. S. Thelen (Eds.), *Emotional dynamics and group culture*. Washington, D. C.: National Training Laboratories-National Education Association, 1958.
- McGregor, D. *The human side of enterprise*. New York: McGraw-Hill, 1960.
- Miles, M. B. Human relations training: Processes and outcomes. *Journal of Counseling Psychology*, 1960, 7, 301-306.
- Miles, M. B. Changes during and following laboratory training: A clinical-experimental study. *Journal of Applied Behavioral Science*, 1965, 1, 215-242.
- Miner, J. B. *Studies in management education*. New York: Springer, 1965.

- Morton, R. B. & Bass, B. M. The organizational training laboratory. *Journal of the American Society of Training Directors*, 1964, 18 (10), 2-15.
- Myers, I. B. *Manual for the Myers-Briggs Type Indicator*. Princeton, N. J.: Educational Testing Service, 1962.
- National Training Laboratories. 21st annual summer laboratories. Washington, D. C.: Author, 1967.
- Oshry, B. I. & Harrison, R. Transfer from here-and-not -- to there-and-then: Changes in organizational problem diagnosis stemming from T-group training. *Journal of Applied Behavioral Science*, 1966, 2, 185-198.
- Pepinsky, H. B., Siegel, L., & Van Alta, E. L. The criterion in counseling: A group participation scale. *Journal of Abnormal and Social Psychology*, 1952, 47, 415-419.
- Riesman, D., Glaser, N., & Denny, R. *The lonely crowd*. New Haven: Yale University Press, 1950.
- Schein, E. H. Management development as a process of influence. In H. J. Leavitt & L. R. Pondy (Eds.), *Readings in management psychology*. Chicago: University of Chicago Press, 1964.
- Schein, E. H. & Bennis, W. G. *Personal and organizational changes through group methods: The laboratory approach*. New York: Wiley, 1965.
- Schutz, W. C. *Firo: A three-dimensional theory of interpersonal behavior*. New York: Holt, Rinehart & Winston, 1958.
- Schutz, W. C. & Allen, V. L. The effects of a T-group laboratory on interpersonal behavior. *Journal of Applied Behavioral Science*, 1966, 2, 265-286.
- Skinner, B. F. *Science and human behavior*. New York: Macmillan, 1953.
- Smith, H. C. *Sensitivity to people*. New York: McGraw-Hill, 1966.
- Smith, P. B. Attitude changes associated with training in human relations. *British Journal of Social and Clinical Psychology*, 1964, 3, 104-113.
- Solomon, R. L. Punishment. *American Psychologist*, 1964, 19, 239-253.
- Steele, F. I. Personality and the "laboratory style". *Journal of Applied Behavioral Science*, in press.
- Stock, D. A survey of research on T-groups. In L. P. Bradford, J. R. Gibb, & K. D. Benne (Eds.), *T-group theory and laboratory method*. New York: Wiley, 1964.

Stogdill, R. M. & Coons, A. E. Leader behavior: Its description and measurement. (Business Res. Monogr. No. 88) Columbus: Ohio State University, Bureau of Business Research, 1957.

Tannenbaum, R., Weschler, I. R., & Massarik, F. Leadership and organization: A behavioral science approach. New York: McGraw-Hill, 1961.

Taylor, F. C. Effects of laboratory training upon persons and their work groups. In S. S. Zalkind (Chm.), Research on the impact of using different laboratory methods for interpersonal and organizational change. Symposium presented at the meeting of the American Psychological Association, Washington, D. C., September 1967.

Underwood, W. J. Evaluation of laboratory method training. Training Directors Journal, 1965, 19 (5), 34-40.

Valiquet, I. M. Contribution to the evaluation of a management development program. Unpublished master's thesis, Massachusetts Institute of Technology, 1964.

Wagner, A. B. The use of process analysis in business decision games. Journal of Applied Behavioral Science, 1965, 1, 387-408.

Weschler, I. R. & Reisel, J. Inside a sensitivity training group. Los Angeles: University of California, Institute of Human Relations, 1959.

Yates, A. J. Frustration and conflict. New York: Wiley, 1962.

Zand, D. E., Steele, F. I., & Zalkind, S. S. The impact of an organizational development program on perceptions of interpersonal, group, and organizational functioning. In S. S. Zalkind (Chm.), Research on the impact of using different laboratory methods for interpersonal and organizational change. Symposium presented at the meeting of the American Psychological Association, Washington, D. C., September 1967.