CHALLENGE OF CHANGE FOR THE HIGH SCHOOL COUNSELOR (A TYPOLOGY OF CHANGE PROCESS)

by 88 %

OVETTA W. STEELE

B. S., Alabama State College, 1962

A MASTER'S REPORT

submitted in partial fulfillment of the

requirements for the degree

MASTER OF SCIENCE

College of Education

KANSAS STATE UNIVERSITY Manhattan, Kansas

1967

Approved:

2668 R4 1968 572 C.2

ACKNOWLEDGMENT

The writer wishes to express her sincere thanks to her major professor, Dr. Richard Owens, for his encouragement, assistance and guidance given from time to time.

TABLE OF CONTENTS

CHAPTER	1	PAGE
I.	INTRODUCTION	1
	Statament of the Problem	4
	Importance of the Study	5
	Definition of Terms	5
	Changa	5
	Numerical Control	5
	Method of Study	6
II.	CHARACTERISTICS OF CHANGE	7
III.	FORCES OF CHANGE	11
	Education and Training for Occupational Change	11
	Education (Approaches to Change)	12
	Curriculum Changas	13
	Pradiction as a Forca of Change	13
	Mobility of the Population	14
	The Changing Role of Women	15
	The Reflactions of Industry	18
IV.	FOCUS OF CHANGE	23
	The Chenging Natura of Occupations	23
	Institutions	27
	Change as an Ampact of Our Culture	29
	Raca Relationa	34
	The Changing Femily	36

CHAPTER	PA	GE
٧.	IMPLICATIONS FOR COUNSELING (THEORY OF RATIONALE)	39
VI.	RECOMMENDATIONS, SUMMARY AND CONCLUSIONS	42
SELECTE	D BIBLIOGRAPHY	51

LIST OF TABLES

TABLE	PAGE
I.	Narrowing Interval Between Discovery and
	Application in Physical Sciences 9
II.	Major Occupational Groups of Norkers, Actual 1964 Employment and Projected 1975 Requirements
	(Numbers in Thousands) 26

CHAPTER I

INTRODUCTION

In recent years, guidance programs have been introduced, expanded and modified at a repid pace throughout the nation. Many people are still somewhat uncertain about the objectives, methods, or results essociated with modern guidance programs. Yet, numerous studies of the capabilities needed for gainful employment, end the changing trends point strongly to the need for effective guidance if students are to be properly prepared for productive, satisfying lives.

Effective guidance progress ere needed today more than ever because of the eccelerating rate of change in many aspects of life. If one understands change, its beginning, its probable course end possible outcome, than it is possible to do something ebout the direction it takes to effect some control over it. The counselor who does not understand the phenomenon of change, or who assumes that his experience is sufficient to meet all the problems experience his students will bring him, is certainly obselement.

Counseling is by neture sized et the future. When one tries to look ehead to the days when change is common for everyone, including the counselors and students, it becomes obvious that prediction is hazardous.

The modern high school counselor needs to know more about which behavior patterns are waning in their use and effectiveness in society.

¹ Adolph Unruh and O. T. Richardson, "Counseling in en Age of Change," The Clearing House, Vol. 41, No. 3 (November, 1966), pp. 149-150.

He needs to know that knowledge is increesing at an accelerated rate and he needs to know in which erese his knowledge of the situation is becoming less valid. He cennot place implicit feith in the facts and information he currently possesses. Nor can he predict accurately, day after day, what knowledge, information or skills will be needed to gain a rewarding entrance into the market place. Notther can he know what kinds of experiences are evailable in other institutions which may be expected to markings the student's moterfield.²

The counselor knows about the mobility of the American people, but cannot predict where the student will find a new home. He may know that research is an initiator of change and a producer of new opportunities, but he cannot predict what they will be rather use will be made of them. He knows three will be rated problems, problems of employment, questions about social behavior, and inter-culturel relations, but he cannot predict thair intemativ, frequency, nor the degree of his counselee's personal involvement in them. He does know that his students must learn to approach each new challenge with equanistity, with intelligence, and with a problem-solving ettitude. Information is by neture, temporary and changing, and problems once solved have a way of coming unglued. If the counselor will eccept the essumption that decisions once made are quite likely to need revision and that life consists of continuous decision making, greater permanency may be reached.

If the counselor will eccept that it is possible to build into students' mental structures the image of the change process end e

² Robert S. Lerson, "Counselors Concern for the Changing School end Curriculum," National Association of Nomen Deens and Counselors, Vol. 29, No. 4 (Fell 1955), pp. 22-23.

perception of themselves as change agents, then he may assume that students can begin to concaptualize their problems in a way that develops a measure of strength, ascurity and purpose. The age of the tame is a critical one for building personality, and for building a concept of the world that clearly reflects an expectation that change and innovation are a part of it.

Attention should be given to the fact that an increasing percentage of high school graduates go on to collage. Before many years elapse, the educational ladder will extend from sge threa and Project Headatart, through collage. How much does the counsalor know about his atudents' socio-economic beckground and the changing neture of the social, economic, and culturel world into which thay will graduate? The great metropolis, constantly increasing in size, continues to absorb the major portion of the population, but at the same time it becomes more impersonal and objective. Soon much of the work, and many jobs will be automated and programmed. Unedcucated and unguided youth will find little sympathy in the business community.

More and more women will prepare for a variaty of careers including positions in business end industry and proprietorship.

Changes in business and industry and the innovations of electronics have uprocted many formerly stable occupations. The realization that today a machine can perform work on the same level as a person with a 12th grade advection places a premium upon, not only more education and counseling, but a better quality of both.³

³ Unruh and Richardson, op. cit., p. 150.

These changes and uncertainties of the future have had, and will have even more in the future, an impact on youth. Thus, the situation for the school counselor becomes a serious one. Unless he is a constant and critical student of the socio-sconesic scene and endowed with vision, he may be counseling his atudents for an assault on the Maginot line. But counseling is by nature simed at the future. The problem is to untangle the mixed cuss that come from many impressions, and to snelyze the seeding instability and insecurity which the future presents.

Statement of the Problem

It was the purpose of this study to investigate through a study of available literature the effects of the dynamic forces of change, upon counseling todey's youth. The changing factors studies will include (1) the characteristics of change as they relate to the counseling phase of the total educational program, including some major curriculum changes; (2) the agenta of change, conditions which influence counseling, predictions, mobility, educational opportunities, percentage of women in the labor force, changes in business and industry, the interdependency of people; (3) focus of change, the kinds of jobs, or positions, that will be available in the future, the racial problem, stitiudes and values; and (4) implications for counseling, that change is reality, and that as a result of these changes the counselor should know about the changing nature of the accisl, economic, and cultural world into which her atudent will exist.

Conditions for counseling are constantly changing and in various ways. It is obvious that institutions change. The counselor should be concerned with some of the motivational factors of these changes.

If one can describe change by indicating its various characteristics, then it is possible to observe it more closely and to have some management of it. One characteristic is rate, another volume, and a third is direction.

In the difficult task of counseling youth, one tool would be of considerable help to the counselor. He should strive to develop the shifty to use the conceptual tools of the modern educator. One such example is a typology of change. From this, the counselor should learn to make projections and guesses, contracts and comparisons so as to extract every possible interpretation and meaning from his study of the information.

Definition of Terma

Change. The term "change" is relatively simple, although as a sociological concept it may be rather comprehensive. Change here means aimply the process of becoming different in any sense, whether it be evolutionary--changes growing in a connected order out of earlier phases of change, or revolutionary--a process of fast change.

Numerical Control. "Numerical control of machine tools" is achieved through coded instructions on punched cards, or on magnetic or paper tape, which can control the acquence of machining operations, selection of the proper tool, speed and feed, flow of coolant, and machine positions.

Readers who wish to know more shout numerical control will do well to consult <u>Occupations! Outlook Quarterly</u> for February, 1965, Vol. 9, No. 1, "New Technology in Metal Morking" by John J. Macut.

Method of Study

Available books, periodicals, reports and pumphists in the main libraries of Kanasa State University and the University of Kanasa were investigated. The information depended very heavily on educational periodicals; current material was used as such as possible.

^{*} Buresu of Labor Statistica, U. S. Dept. of Labor.

CHAPTER II

CHARACTERISTICS OF CHANGE

By any crude measurement, the contemporary world appears to be changing more repidly than at any time in human history, particularly if we accept an arbitrary division and define the contemporary period as the twentieth century. In fact, the early part of the century looks rather placid by comparison with the last two decades. Unless our vision is simply miopic and distorted, this strongly suggests that the rate of change is accelerating. And so it is.

The peculiar textures of contemporary change may be summarized by a set of generalizations:

- For any given society or culture rapid change occurs frequently or 'constantly'.
- Changes are neither temporally nor spatially isolated—that is changes occur in sequential chains rather than as 'temporary' crises followed by quiet periods of reconstruction, and the consequences tend to revarberate through entire regions or virtually the entire world.
- Thus, since contemporary change is probable 'everywhere' it has a dull basis.
- 4. The proportion of contemporary change that is aither planad or issues from the secondary consequences of delibarate innovations is much higher than in former times.
- Accordingly, the range of material technology and social strategies is expanding rapidly and its net effect is additive or cumulative despite the relatively rapid obsolescence of some procedures.

6. The normal occurrence of change effects e wider range of individual experience and functional especte of accieties in the modurn world-mot because such societies are in ell respects more 'integrated' but because virtually no feeture of life is exampt from the expectation or normality of change.

If one can describe change by indicating its various characteristice, then it is possible to observe it more closely and to have some management of it.

One characteristic is rate. When one remembers that 90 per cent of all the ectentiets who have ever lived are atill elive, it is possible to see that change has come upon us very repidly. Twenty years ago a Congressional report stated that ten mathematicines were all that were needed for all industry in the United States. Today, however, more than 200,000 are needed simply to operate the various computers. It is estimated that 50 per cent of the children in the elementary grades today will be employed in occupations that do not now exist. It is possible then to see that rate may be accelerated or decelerated depending upon the circumstances and the factors involved.

The evidence is not conclusive see to the speed which industry is making use of technological change and automation. If management is applying such changes at a much more rapid rate them in the pact, then the implications for the present are greater, for there will be less time to cuehion automation's impact on employment end society. An example of this, as shown in Table I, is the narrowing sep between a discovery and the application of that discovery. The speed with which at least discovery of submated equipment was applied is further indicated by the following statements

¹ Wilbert E. Moore, <u>Social Change</u> (New Jereeys Prentice Hall, Inc., 1965), p. 2.

"While sdoption of slectric power in industry took fifty years, eutomated accounting systems, introduced barely ten years ago to benks, are installed in more than one half of the banks in this country now."

Intense sceleration might result in a revolution, whereas changs
that takes generations for its complation would be more descriptive of
evaluation.

TABLE I
NARROWING INTERVAL BETWEEN DISCOVERY
AND APPLICATION IN PHYSICAL SCIENCES*

Innovation	Yesr of discovery	Yssr of spplication	Time span	
Electric motor	1821	1886	65 yrs.	
Vscuum tube	1882	1915	33 yrs.	
X-rey tubes	1895	1913	18 yrs.	
Nuclssr reector	1932	1942	10 yrs.	
Atomic bomb	1938	1945	7 yrs.	
Solsr battsry	1953	1955	2 yrs.	

Eli Ginzberg, Technology end Sociel Changs (New York: Columbis University Press, 1964), p. 87.

² Cherles C. Killingsworth, "Automation, Jobs and Manpower," in Subcommittee on Employment and Manpower, United States Sanate, <u>Selected Readings in Employment and Manpower Environ the Diseasons of the Manpower Environ (Bushingtons Government Printing Office, 1964), pp. 203-204, hresefter cited as Salexed Readings.</u>

A second characteristic of change which can be observed is volume. Innovations may begin in one school department and apread quickly to another. Significant changes at school can affect that happens at home. When schools begin to strengthen their curricula and sasignments, the increased homework makes it difficult for the family at home to help and a change in family relationships results. When the school and the home change, it is obvious that relationships with the church probably undergo some changes also.

Another characteristic is that change has direction. The estiest may to illustrate this concept is to note that the population is fissing the center of the great cities and arriving in vast numbers in the suburbs. The continuing development of mechines, tools and gadgets makes life much essier in the home and on the farm, and so there is a change from drudgery and long days of hard manual labor to a life of mechanized labor and leisure. This much description may point out that there is a movement in an observable direction.²

³ Kingaley Davis, "Urbanization--Changing Patterns of Living in Simpaon, H. S.," The Changing American Population. A Report of Arden House Conference (New York: Institute of Life Insurance, 1966), Chapter 3.

CHAPTER III

FORCES OF CHANGE

Education and Training for Occupational Change

The developments in every broad occupational group asem to call for ever more education and training. The need for educational and skill upgrading will not be confined to the rapidly growing professional and technical fields, nor even to white-coller employment generally. The demand for better educated and trained workers eppears to be all inclusive.

The need for advocation is further underscored by the likelihood that a person may face several job changes during his working cereer.

No longer can a boy or girl expect just one occupation to cover a lifetime of work. Even today, e 20-year-old man could be expected to change jobs six or seven times during his work life expectancy of 43 years.

Being shla to adjust to changing ways of work applica to women as well because little is likely to remain the same over the 40 years. A single woman can, on the everage, plan on working. Even married women, on the everage, can cound on rether lengthy work life expectancies—about 30 years for those without children, and about 25 years with children.

To be able to exitted from one specific job to another, e person must have an advocational beckground broad enough to anable him to about the troining and retraining that will be necessary to permit him to switch. "Skey in school" is indeed the motto for the decade sheed.

The question now arises: To what extent will "the mechanization of human thought and sense processes" directly affect the conduct of the American school? Dr. Jemes Conant in s much discussed work already not sense that sounded a gris warning that the unemployed and/or delinquent (many of whom are school dropouts) pose an slarning problem for our society. As the distinguished educator—statemens put fit "We are allowing social dynamite to accumulate in our large cities." Dr. Conant is here referring to those young people who drop out of school or graduate without prospects of either further education or employment. The young person who drops out of school, for whatever reason, has little opportunity in a society that demands specialized akills for most of its jobs. "From the purely economic point of view, education has three principal effects (1) it can increase the preductivity of people and thus help them to adjust to change; (2) it can open up new opportunities of employment; and (3) it can increase the productivity of workers."

It is strongly recommended, therefore, that educational opportunity be open to all. A first principle of a progressive and humane society is that no person shall be deprived by financial berriers—or by berriers of ethnic or national origin, religion, age, place of residence, or family background—of the opportunity for maximum growth and development through education.²

¹ James B. Consnt, Slums and Suburbs: A Commentary on Schools in Metropolitan Areas (New York: McGraw-Hill Book Co., 1961), p. 11.

² Ibid., p. 25.

Curriculum Changes

Of all the recent changes, what is commonly referred to as the current curriculum reform movement has been the most influential. It has reached into thousands of classrooms in the past decade.

The novement is discipline-centered, the ends and means of schooling being derived from the ecedemic subject. Some educetors cleim that this cycle of discipline-centered curriculum reforms is over. The writer would doubt it, although it may have reached its peek in the sense that new outlines are taking shape. For the next severel years, however, educators' concern will focus more end more on the total curriculum, rether than on bits and pisces of it. If all goes well, this second cycle will reach e pleteeu in perhaps 10 or 15 years. Perhaps the third cycle will then be what one might call the humanistic curriculum and it may become significently evident by 1900 or 2000.

These three cycles are not discrete nor are they now. They represent the periodic reappearence of some persistent themes in formal education-econom for organized subject matter, concern for the learner's total educationel dist, and concern for man himself.³

Prediction es e Force of Change

Prediction is a fundemental concern of counselors who counsel with clients in the process of making decisions. That is, ettempts are made to forecest future success, setisfaction end other types of behavior on

John I. Goodled, "Directions of Curriculum Chenge," <u>The Education Digest</u>, (February, 1967), p. 34.

the basis of present knowledge about a given individual. Tha use of test results in counsaling is almost always oriented to the future.

Historically, however, much has been written in the counsaling literature about the counsalor as a prediction maker. Streng⁴ wrote that the counsalor exeminas data for accuracy, completeness, and relevancy, than formulates and evaluates interpretations before arriving at a best fuderment.

Therefore, the counselor is in a perplexing position as he attempts to datamine his role as prediction maker; counselor experts inform him that he should function as a prediction maker, but the weight of the available experimental evidence is convincing in revealing the predictive superiority of the statistical methods. Since most educational and vocational counseling is future oriented, the question is not whether counselors do make predictions in actual practice, but whether they should.

Mobility of the Population

Every year nearly one American in five changes his residence. One person in four lives in a state other than the one in which he was born. There is a movement to the Natt, to the Southwest, and to the states bordering the Pacific and Atlantic oceans, the Oulf of Nexico, and the Great Lakes. There has been a movement of the rural population to the urban-auburban areas to the extent that the urban population now exceeds the rural population in a majority of the states.

⁴ Ruth Strang, <u>Counselor Techniques in College and Secondary Schools</u> (New York: Harper and Brothers, 1937), pp. 58-59.

⁵ Bureau of the Census, <u>Mobility of the Population of the United States</u>, <u>March 1960 to March 1961 (Washington V. S. Department of Commerce</u>,

Eight million men and momen, or about 1 out of every 10 who did any work in 1961, chenged jobs during the year. Some moved voluntarily in search of better jobs or for other personal reasons. Others had to make changes because of job loss.

High retes of job changing among youth, due in pert to a leck of training and experience, point to e need for improved vocetionel guidance and education. On the other hand, the difficulties faced by older workers in finding new jobs are herriers to necessery edjustments in the economy.

For the kind of society that is developing, a highly mobile one, characterized by repid change and facilitated by en unpredictable tachnology, the development of mobile and flexible students is essential. These
will be students who are planning or seeking a cereer. The need today is
for those who are able to get today's job dons, shift gears, and move on
to the next, edspt to new purposes and programs, and move efficiently
emong new idees, institutions and technologies. Peradoxically, if there
is to be purposeful development for today's youth, it will be preparation
of them for the unexpected. Mobility today means such more. It means
the oblity to move into the rapidly-changing future, not peinfully but
emorely. The second of the control of the

The Changing Role of Women

The myth that women ere of e necessity subordinata to men and must remain in the kitchen ell their lives has been a long time dying, even

⁶ Ralph E. Mason end Peter G. Haines, <u>Cooperative Occupational Education and Mork Experience in the Curriculum</u> (Tillinois: The Interstate Printers and Publishers, Inc., 1965), pp. 8-9.

⁷ Kenneth F. Mulligen, "Gereer Development and the Future," <u>Journal of College Plecement</u>, Vol. XXVI, No. 4, (April, May, 1966), pp. 10-I2.

among momen themselves. Females outnumber males by 2,600,000 in America and although the preveiling stitudes favor-end picture-the American woman as mother and housewife, there is a need to reconsider the problem in terms of woman's contributions to our society. 8

The work force will grow by about 13 million during the 1960's end by another 7 million between 1970 end 1975, resching a total of 93 million. Almost half of these new workers will be women. 9

Higher education for American women began during the nineteenth century. The first authentic instance of a woman being permitted to secure a college education was in 1837 when four young women were admitted to Oberlin College. One hundred and twenty-seven years later, in 1964, there were approximately 1,812,000 women enrolled in colleges and universities throughout the nation. Enrollments are expected to reach 2,715,000 by 1970.

Aristotle said that "learning is en ormsment in prosperity, s refuge in edwersty, and s provision in old age." Although this is s time of prosperity, higher education for women is not ormsmental. Never before has the education they received been so influential in shaping their future lives for the multiple roles they must play in modern society as witws, mothers, citizens, and earners.

Education, Vol. 87, No. 4 (December, 1966), pp. 246-247.

Bonald G. Mortensen and Allen M. Schmuller, <u>Guidance in Today's Schools</u> (New York: John Wiley & Sons, Inc., 1966), pp. 85-86.

J. S. Department of Labor, <u>Manpower</u>, <u>Chellenge of the 1960's</u>
 (Washington: U. S. Government Printing Office, 1961), p.6.
 10 Florence Louise Phillips, "The Changed Status of Momen,"

Earlier marriage, longer life, better health, and modern technology's labor saving davicas have had a profound influence on the life patterns of American women. Nost women marry and seak employment after their children are grown. Furthermore, in our society the activities of the American woman cannot be confined to the home, for the conditions in the community and in the nation have a great effect on the welfare of her family.

The societal trends which have influenced changes in the life patterns and social roles of women are ravealing. Todey the life of the young moman differs greatly from the life of the grandmother's day. ¹¹ Four out of five women in the U. S. have been married at some time during their lives. In 1900, however, two out of three women in the total population had been married. The average age of marriaga is twenty as compared with twenty-two years of age at the turn of the century. The average couple can expect to have fifteen more years together after the last child has left home, and women outlive their humbands by approximately six years. Over half of the total number of women in the labor force are married, and the average age of the amployed women is forty-one as compared with twenty-six in 1900. ¹² In 1960, 5,408,000 of the 3,000,000 women between the age of sixty-five and sixty-nine were amployed. Today a woman of seventy has a life expectancy of twelve years. ¹³

¹¹ President's Commission on the Status of Women, "American Women" (Washington: U. S. Government Printing Office, 1963), pp 58.

¹² Bailey C. Urban, "Working Wives on the Upward Move," <u>The Wichita Eagle and Beacon</u>, March 5, 1967, p. 3E.

¹³ President's Commission on the Status of Women, op. cit., p. 66.

An increasing number of women are making decisions which are crucial not only for them but for society itself. In the U. S., women control seventy per cent of the savings, purchase ninety per cent of the merchandise produced for family use, and directly influence financial considerations in a number of other fields. 14

Even though their roles as mothers and homemaker take precedence over their other roles, young women of today must be aducated for citizenship in the home, in the community, end in the nation.

Higher education in colleges and universities must help to prepare the American moman accomplish these objectives. It must at the same time help her perform her varied functions throughout her long life with excellence.

The Reflections of Industry

Industry reflects the demands made upon it by others in the market place. It also reflects what society in general, at home, and abroad is requiring of ell of us. Any enalysis of what industry expects of youth must, therefore, be made in terms of what the future of American industry holds for all of us.

We are living in a fest-moving world faced with difficult problems, revolutionary changes and unsurpassed opportunities. We are witnessing the space race, the development of atomic power, new nations being created by the gift of independence, foreign competition, and domestic competition for foreign markets.

Industry, consequently, is experiencing changing markets, e revolution in production methods, tremendous increases in cepitel

¹⁴ Ibid., p. 71.

requirements, new and different personnel needs, and a complexity of government requisitions and controls—ell in all, a way of industrial life which now requires great intellect end highly akilled personnel. Industrial managament, as we may have known it in the past, must now adopt itself to the crucial problem of national survival, and this survival depends more upon quality of human resources than on elsest any other factor.

Along with these complexities, we are feced with a standy increase in the population of this country as well as in the world at large. This, of course, means a rapidly growing markst and the consequent demand on industry to increase its capacity and raise its efficiency.¹⁵

A population explosion is no guarantee for a booming economy. A large population without a sound aconomy can be a dangar rather than e guarantee of progress. Our aconomy must grow with this population and one of the feets of e sound economy is tachnological development. Manpower is the key resource of this tachnical development, which means that the tachnical proficiency of the work force must be reised to e very significant decrea.

Our shilty to grow economically, to creete needed naw jobs end to build lasting prosparity hings on our willingness to smbrace end foster tachnological changes and to cope with the problems arising from that change, 16

¹⁵ Robert Arthur, "What Industry Expacts of Youth," American Vocational Journal, Vol. 40, pp. 18-20,

¹⁶ Ibid., p. 21.

The most revolutionary change affecting us directly is the use of <u>numerical control</u> and computers on machine tools. These systems place routine and repetitious work on machines and relessemen for more creative tasks.

The guiding principle of our competitive system is if a company does not possess manufacturing efficiency, it cannot survive. Automation will gradually reduce the number of manual workers in manufacturing. Fewer operators will be needed to produce increasing quantities of meas-produced goods. On the other hand, the need for engineers and technicians will increase. They will have to be more highly educated, more highly trained, and more technically qualified than ever before.

The job opportunities for the young man with limited potential are diminishing repidly. The besic knowledge required for the industrial employee has changed drastically in the past five years and will continue to change. ¹⁷

He will be required at times to perform tasks that will involve the use of complex machinery to disponse trouble and the creation of new or improved methods of repsir. He will be required to follow complicated directions and to communicate, both orally and in writing, his ideas, solutions, and directions to others. During his lifetime, his job may be obsolete several times, making it necessary to acquire new skills.¹⁸

¹⁷ Ibid., p. 21.

^{18 &}quot;Tesching Obsolescent Skills Widens Gap between Education and Technology," <u>Catholic School Journal</u> 64 (June, 1964), pp. 44-45.

Machine tool companies are building machine so complicated that skilled men who normally have the responsibility of assembling them are finding it difficult to keep up to date. Retreining is then called for. The machines that ere presently in the design steps have control systems beyond our imagination. Consequently, the young man seeking employment in industry todey has a long road aheed of him. He must be edequately equipped with the necessary tools to survive the journey. He must have potential in three basic creass ettitude, skill, and knowledge.

He must have a resistic attitude toward learning. He will be working in an everchanging climate which requires that he not only acquire the skill of his present task, but that he keep abreest of new techniques as they develop. It has been said that a man storting in industry todey may have to learn four different trades in his lifetime. It is essential that he understands this end accepts it as e way of life. 10 This means among other things, the realization that he will be working different ehifts, that he may be called upon to relocate at other plents or even be assigned to work in other countries.

Delays in arriving et important decisions in work make aducation and training more difficult to obtain; valuable years of productivity and personel developments are wested, both to the individual and to the nation's economy. Authorities agree that adequate guidance and proper career planning could eliminate much of the frustration encountered by

¹⁹ Seymour Wolfbein, "Labor Trends, Manpower, and Automation," Man in the World of Work (Boston: Houghton Mifflin Co., 1964), p. 20.

youth in the transition from school to work, 20 It could reduce job turnover and nerrow the gap, averaging six years between high school graduation and continuing education.

It would be impractical to expect anyone coming into industry to have sequired all the techniques necessary to perform the various tasks of eny treds. Additional training is, and should be, industry's responsibility. On the other hand, it is feir to expect that the employee has sequired on his own the besic background of knowledge. If he has the necessary knowledge and the epititude, he can be trained. An understanding of basic principles in several fields is thus more essential than aver beform. 21

The solvance of technology was mentioned as having perhaps the greetest influence on our lives today. "Among the many facete that re in various ways determining our future, perhaps nothing will have a larger impact on the value structure of our culture, and the value of individuals than the increasing eutometion of industry." ²²

²⁰ Dunlap Knight, Personal Adjustment (New York: McGraw-Hill Book Compeny, 1946).

²¹ Blum, op. cit., p. 26.

²² Sterling M. McMurrin, "Education for Freedom in e Free Society," <u>School Life</u>, XLIV, No. 6 (April, 1962), p. 5.

CHAPTER IV

FOCUS OF CHANGE

The Changing Nature of Occupations

The changing nature of the occupational world, the world of work, is in reality an interaction of many forces. Among the major aspects of the forces for change are: changing make-up of the labor force, changing employment demands in occupational areas, and changing requirements of worker competence. Educators must analyze carefully the changing occupational "mix" if curricula and counseling are to be responsive to actual conditions in the local service area.

From now to 1975, the labor force will grow even feater than the population as a whole meanly because of the large number of young people reaching working age. The labor force is expected to grow from 73 million in 1960 to 93 million in 1975—an increase of 20 million (or 27 per cent). At the asme time, the population will grow about 25 per cent. The increase in the labor force is only the net increase over this period. The number of new workers entering the labor force will far exceed this figure. The difference between the total entering or rs—entering and the net growth of the labor force represents persons absorbed into the labor force as replacements for those workers who, during the same period, will have died, retired, or left for other reasons, such as disability, or for marriage, or to take care of children.

¹ Mason and Hainea, op. cit., p. 10.

During the next 10 to 15 years, much larger numbers of young people than in the past will be in the work force, even though s higher proportion of youth will remain in school longer. Also, women workers ere teking a more prominent role in the labor market. Young people under 25 will secount for elmost half of the net increase in the labor force between 1960 end 1970. Their proportion in the labor force will rise from less than 19 to more than 23 per cent. From 1970 to 1975, workers from 25 through 34 years of age will account for the greatest increase. However, over the 15-year period from 1960 to 1975, young people under 25 and edult women over 25 will, in the eggragete, account for two thirds of the net increase in the labor force.

Significant changes have taken place and can be expected to continue to take place in the occupational structure of the U. S. labor force. One of the most important changes of the post-World War II period has been the much greater growth in the number of workers in white-collar and service occupations se compered with manual workers, and especially the very large increese in the number and proportion of professional and high lavel managerial workers. ³ Employment of white-collar workers rose by more than one half (545) between 1947 and 1964, rising from less than 50.2 million to more than 31.1 million. Employment of service workers else rose substantially, growing from 6.0 million to 9.3 million, on increase of 55%. At the same time, employment of blue-collar workers increase

² Mason end Haines, op. cit., pp. 10-11.

^{3 &}lt;u>Ibid.</u>, p. 12.

much less repidly, increasing about 8 per cent, from 23.6 million to 25.5 million. The number of ferm workers actually declined, falling from 8.1 million in 1947 to 4.4 million in 1964, a drop of 45 per cent.⁴

Looking shead, as shown in Teble II, an increase of nearly two fifths for white-coller jobe over the next decade is indicated. Among white-collar occupations, the most rapid increase in requirements will be for professional and technical workers, which may grow twice as repidly (54%) as the average for all workers. Requirements for clerical workers are also expected to increese rapidly, rising by nearly two fifths. and sales workers by nearly one third. The demand for managers and officiels is expected to rise somewhat more slowly increasing less than one fourth between 1964 and 1975. Requirements for blue-collar markers are expected to rise by one sixth between 1964 and 1975.6 Among the blues collar workers, the most rapid increase in requirements will be for creftsmen, a rise of somewhat more than one fourth, or about the average rate of increase for total employment as a whole. Requirements for operatives will increase more slowly, by about one seventh, and little change is expected in the demand for laborers. A more than one-fifth decline in requirements is anticipated for farmers and ferm workers.

⁴ Howard R. Bowen end Garth L. Mangum, <u>Automation and Economic Progress</u> (New Jerseys Prentice-Hell, Inc., 1965), p. 86.

¹bid., p. 88.

¹bid., p. 89

TABLE II

MAJOR OCCUPATIONAL GROUPS OF NORKERS, ACTUAL 1964 EMPLOYMENT AND PROJECTED 1975 RECUIREMENTS* (NUMBERS IN THOUSANDS)

Occupational group	1964 Employment		Projected 1975 Employment		Per cant change
	Number	Per	Number	Par centa/	1964-75
Total, all occupational groups	70,357	100.0	88,700	100.0	26
White-collar workers	31,125	44.2	42,800	48.3	38
Professional and technical	8,550	12.2	13,200	14.9	54
Menagers, officials and propriators	7,452	10.6	9,200	10.4	23
Clerical workers	10,667	15.2	14,600	16.5	37
Sales workers	4,456	6.3	5,800	6.5	30
Blue-collar workers	25,534	36.3	29,900	33.7	17
Craftsmen and foremen	8,986	12.8	11,400	12.8	27
Operatives	12,924	18.4	14,800	16.7	15
Nonfarm laborers	3,624	5.2	3,700	4.2	b/
Service workers	9,256	13.2	12,500	14.1	35
Farm workers	4,444	6.3	3,500	3.9	-21

 $[\]underline{a}/$ Projections assume a 3 per cent level of unemployment in 1975. Per cents do not add to totals due to rounding.

b/ Less than 3 per cent.

^{*} U. S. Department of Labor, Bureau of Labor Statistics, "Industry Productivity, Projection." p. 23.

As a result of these differential rates of growth, the occupational composition of the nation's employment will be different in 1975 than it was in 1964. The major changes will be in the proportions of professional and technical workers, service workers, and clerical workers, all of which are expected to rise significantly, and in the proportions of farm workers, operatives, and non-farm leborare, which will decline as a proportion of total employment. The remaining occupational groups will be roughly the same proportion in 1975 as they were in 1964.⁷

Although many factors other than technological changes have had and will continue to have a significant impact on the occupational structure of the labor force, technological change is nonetheless a major determinant of occupational employment shifts. However, technology is inextricably movem with the other factors influencing employment, and the impact of technology itself is often hard to distinguish.

One impact of technological change on industry occupational patterms can be seen most clarify in industries which are declining in employment. In these industries the greatest decreases in employment have usually taken place among laborers and others in the least skilled groups.

Institutions

"College grads are a dime a dozen. Quite a bargain for an item it costs \$10,000.00 to produce." 9

⁷ Bureau of Labor Statistics, U. S. Department of Labor, "America's Industrial and Occupational Manpower Requirements, 1964-75," <u>The Outlook for Technological Change and Employments</u> p. 20.

⁸ Bowen and Mangum, op. cit., pp. 85-86.

 $^{^9}$ "Oh, How Your Life Has Changed:" Changing Times, Vol. 21, No. I (Jsn., 1967), pp. 12-13.

For twenty years tides of change swept the schools. Partly it was sheer numbers. First ex-Gi'e packed the colleges, going to school on the GI Bill and living with their wives and bebies in old barracks and quonest huts.

Then their bebics grew and trooped to achool by thousands. There were 20,000,000 children in elementary achools in 1947 and there are 36,000,000 today. 10 For a time, building anough classrooms for them seemed nearly impossible. Building them fast anough proved utterly impossible. Youngsters went to makeshift, overcrewded achools for half-day seasions. In these 20 years, we spent over 50 billion dollars to build achools. 11

It was a nationade problem and help came on a national scale. Decade-old barriers were finally surmounted, and the federal aid money poured forth. Simultaneously legal props were knocked away from school segregation, lighting new hope for groups long under-privileged.

Inside the classroom was ferment, new ways of teaching nearly everything. Youngstars in the grades were sent to learning fereign languages. Tapes and cameras and TV and teaching machines moved in to help the teacher. Old-time arithmetic was so changed by new math that even youthful parents had trouble helping with homework. A baubla the size of a basketball was lofted to the sky in 1957, and suddenly PTA meetings crupted with demands for more emphasis on math and science. The bauble's names Sputnik.

Ibid., p. 13.

¹¹ Richard I. Miller, Education in a Changing Society (New York: McGraw-Hill Book Co., 1963), pp. 94-95.

But the biggest educational change of all was averybody's heightened need for knowledge. The high school dropout is todey's lost man; tomorrow's will be the college dropout. Advanced degrees are expected for many beginning jobs right now. 12

This upgraded need for knowledge worked two further changes. It set more young people than ever siming toward college and it made college admission a prime goel of secondary education. Now one judges a high school not by how well its graduates manage life but by which colleges they enter.

Meanmile, the big, wealthy college, public end private, pleced more emphasis on their graduate schools. Those that had none are adding them. And an increasing share of undergraduate schooling is taking place in a new setting, the two-year community college. In a few years, most college students may be at those close to home schools, ¹³

Change ee an Aspect of Our Culture

The rate of change is accelerating to such an extent that it is elmost bewildering. Melfe has estimated (probably on the conservative side) that available scientific end technical knowledge doubles about every fifteen years. Thus, the tempo by which the incremente in knowledge occrue is repolly eccelerating.

¹² Ibid., p. 14.

¹³ C. C. Wrenn, The Counselor in a Changing World (Weshingtons The American Personnel and Guidance Association, 1962), p. 11.

¹⁴ D. Wolfle, "Guidance end Educational Strategy," <u>Personnel and Guidance Journal</u>, No. 37 (1958), pp. 17-25.

In a forecast made in 1959 of potential aclantific and technological developments expected during the 1960's and 1970's, Bello envisaged a world that might have been derived from science fiction.

15 he predicted that by the mid-mixties radio-telescopes would probe the "edge" of the observable universe, that manned satellites would be launched and returned safely, that muclear explosives would be used experimentally for non-military purposes. These developments have sirredy occurred. One of his predictions for the late sixties was the use of setallites for communication purposes. Such satellites have been in orbit since July, 1962. Hrenn has projected a number of "long range" technological developments, 16 many of which have now long been realized. But such is the fate of one who darse to predict developments in the changing world of today. What may appear to be an expert's fantasy of today becomes tomorrow's reality.

These scientific and technological developments promise many unnderful products for the consumer, but they do not offer a stable basis for developing life plans. In the face of anticipated changes, it is difficult to imagine sny basis on which youth can make long-range occupational plans with any degree of certainty that they will be able to carry them through to completion.

Although the specific nature of the society of the 1980's and beyond cannot be forecast with any degree of accuracy, there are some general indications of changes that might take place during the next two decades.

¹⁵ F. Bello, "The 1960's: A Forecast of the Technology," Fortune (January, 1959), pp. 74-78.

¹⁶ Wrenn, ibid., Chapter 2.

The counselor therefore may use the projections described in the following paragraphs with a reasonable degree of seaurence that they will provide the attdent with a number of anchor points for considering his world of the 1970's and 1980's.

The population increase throughout the world will constitute one of our major concerns. It has been satimated that the present population will grow to 211.4 million by 1970-en increase of some thirty million over the 1960 population.¹⁷

The growth of the population in the United States will vary smong the various age groups. The number of youth will increase markedly during the next faw decedes. In 1958 the number of children under eighteen years of age was estimated to be sixty-one million, which represented an increase of about fifteen million over the number in 1950. This rate of increase is about twice that of the total population. The According to the Wrenn report, in 1980 the number in the age group of fourteen to seventeen will be double what it was in 1950. The country of the seventeen will be double what it was in 1950.

OutturnA ambiguity probably will increase as the size of the population increases. Established living patterns will either have to be changed or modified in order to eccommodate the inevitable population changes. Undoubtedly the trend toward large cities will continue. As the size of the

¹⁷ Netionel Plenning Association, <u>Netionel Economic Projections</u> <u>Elementa of Economic Growth</u>, <u>Judgment Models in 1965-1970</u>, 1960 Series (Weshington; The Association, 1960).

¹⁸ Eleanor H. Bernert, "Damographic Trends end Implications," in E. Ginzberg (ed.) The Nationa Children, Pert I, Report of the 1960 White House Conference on Children and Youth (New York: Columbie University Press, 1960), p. 27.

¹⁹ Wrenn, op. cit., p. 17.

cities increase, providing transportation and housing facilities will pose major social problems. The alume will still exist. Courthip and marriage patterns will probably be altered. The average age at which young people marry is decreasing; this change, of course, has implications for educational planning. Wrenn indicates that in 1960 the average age of marriage for men was 22.6 and for women, 20.4.0 The sight of the baby buggy on the campus, a rarity before 1946, is now commonplace, as fether watches the baby while mother stends class, or vice versa.

The social institution most seriously sffacted by the mushrooming population will be the school. By 1996, annoliments in the elementary schools were estimated at some thirty-one million students, an increase of nine million over 1950 enrollments. Enrollments in the high schools had shown an increase of 2.2 million during the same period, or a total of 10.6 million. Projected enrollments to 1970 indicate that there will then be some thirty-seven to forty million elementary students and more than fourteen million high school students in the United States.²¹

Even as this paper is being written, providing necessary buildings and staffs for schools is a major national problem. In September, 1964, there was an expected shortags of 118,000 taschers for a total of more than 1.5 million alementary and secondary positions. ²² It is likely that aconomy measures will be required in order to meet the necessary appenses.

²⁰ Ibid., p. 29.

²¹ Bernert, op. cit., p. 31.

²² National Education Association, <u>Teacher Supply and Demand in Public Schools of the United States</u>, Research Report, 1964, R-9 (Washington; The Association, 1964), p. 164

of expending echool fecilities. Thus the so-called "eupplemental" exvices, including guidance services, may be in for esticus scrutiny by those who control the budget. The nature of the echools themselves may be modified rather dreaticelly as a new technology of human learning is developed as new procedures are devised to meet the pressures of increased servillents.

As the population boom continues throughout the world, dire predictions are being made about the drein on available food supplies and
natural resources. At the present rate of consumption known reserves of
certain minerale could be exheusted in a few years. Stepheneon²³ and
Mair²⁴ case hope for meeting future needs, homever, through edvences in
technology. Mair, for example, maintains that there is a basic fallecy
in the pessimistic outlook reparting the sufficiency of resources for the
future: the essumption that there is a fixed base for available resources.
According to Mair, available resources will change as the need arises.
For example, through chemistry, what were once musts products have now
been turned into pleatics, thus creating new resources. Already scientists
have turned to the sea for food, atnazals, end mater, and to the sum for
solar energy. Who knows what space exploration will uncover. Along with
the discovery of these new resources, new jobs and new industries will
develop.

²³ E. P. Stepheneon, "Past Gaine end Future Promiee," H. Jarrett
(ed.), Science end Resources (Baltimore: The Johne Hopkine Press, 1959), p. 28.

24 R. C. Meir, "The Worldwide Prospect," H. Jerrett (ed.). Science

and Resources (Baltimore: The Johne Hopkins Prees, 1959). p. 34.

Whether science can cope with the problem of increasing population is a question only the future can answer. Whether there will be food, clothing, shelter, end jobs for all, or whether the "have nots" will become even poorer than they are now, there will be eccompanying changes in our way of life--changes that will challenge the skill of the counselor and make even more difficult the adolescent's task of knowing just who he is.

Race Relations. Once upon a time there were two kinds of childrenblack and white. But now we know that e child is just a child with a mind wenting to be taught, a human being needing and weiting for the tools with which to process his development. This change was not brought about in a day or a week or a decade. In this country elone, it has teken more than one hundred years to look beyond and beneath the color of a child's akin. 20

The history of minority groups everywhere it seems has been marked by bitterness end prejudice, where it has not been tragic. "Man's inhumanity to man" is no where more in evidence than in the trestment of those who may for one reason or another differ from the majority. But this is a problem which must be feed by those seeking to help ell individuals. There is, in fact, no escape from what is taking place in American society. The issue of civil liberties has become pert of our every day reading, and few cen, or will, foretell the outcome in this heeted end complex area of human relations. The writer is hopeful end very optimistic.

²⁵ Seul S. Beck, <u>The Changing Counselor in a Changing Culture</u> (New Yorks Chronicle Guidence Publications, Inc., 1965-66).

²⁶ B. Bettelheim end M. Janowitz, <u>Sociel Change end Prejudice</u> (Glencoe, Illinoia: The Free Press, 1964).

Whatever else is involved, people are "the basic national resources" of our society, as has been emphasized by many writers. 27 As Ambassador Galbratch writes:

Maybe there are other ways of augmenting the flow of resources into personal development. Since the society is changing, we dere not seaume that we have the last thoughts in the subject. For man has not retreated before the machine; rather the machine has become desporately dependent on the improvement of man, 20

It follows then, if we are to use these prime resources, a whole new approach to the problem of minority groups will have to be found.

In early social groups, "enemy" and "stranger" were synonymous terms and senophobis (fear of strangers) still lingers on as grim reminder of these perhaps less civilized times. Printitive man hiding in his cawe may have had good cause for such behavior since for him, every stranger was indeed an enemy. With the technological society has come, however, the need for living and getting along with others. Modern modes of transportations and communication have, despite personal feelings in this matter, made us all neighbors at less in time and distance.

The nature of prejudice is being studied on numerous different fronts, but it is no secret that prejudice still exists. Everyone has certain prejudices. Why people dislike others is not always quite clear, but that they do is common knowledge. The problems shead of us will require the efforts and cooperation of every citizen; but it is difficult to

²⁷ Mortensen, op. cit., p. 86.

^{28 &}lt;u>Ibid.</u>, p. 87.

²⁹ Alan P. Grimer, <u>Equality in America</u> (New York: Oxford University Press, 1964), p. 60.

see how this is possibla under conditions of distrust and prajudice. For guidance personnel the issue is of paramount importance since they are involved in a function which is dedicated to helping every individual make his maximum contribution. There is need to explore the nature of prajudice and, if possible, turn its anergies into constructive channels. Byzne in describing the counselor's duties, sums up the case for every guidance workers

The counselor's goal, firmly besed on the human worth of the individual, repeatless of selection, intelligence, color, or background is to use his technical stills; (s) to help such counselve statis and smiratian an assersmens of self so that he can be responsible for hisself; (b) to help such counselse confront threats to his being, and thus to open further the way for the counselse to increase his concars for others wellbeing, and the concars for others wellbeing, and the consequence of the consequen

The Changing Festly. Social changes hurt worst at the festly lavel. 32

Parents are affected more by the changing nature of the home than are the children who know nothing else. The parent, though, is constantly trying to put new wins into old casks, to see the home in 1960 as similar to the one in which he or ale was resred in 1930. The controls and sids that were used with the parant may not fit the home conditions under which their children live and thay blame both themselves and the "times" when they find this out. The alom-paced home life, with focused authority and both parents in the home for several hours per day, fits the conditions of urban, split-

³⁰ Ibid., p. 90.

³¹ R. H. Byrne, The School Counselor (Boston: Houghton Mifflin Co., 1963), pp. 19-20,

³² Saul S. Beck, op. cit.

level living less well than it does the small-town or rural setting, particularly that of a generation ago.

It is more important than aver before that the counselor become a student of family lifa. If the home is so important an influence in the life of the child, and within the foreseeable future it will certainly continue to be the most important, and if the home is changing, then the counsalor must keep up with the changes in order to understand and help the student. How can the counselor help Bart in vocational planning, for axampla, unless he knows that Bart's home is a very closely knit one in which every decision is discuseed by sll members of the family? With Mary the parents are "emancipated" and carefully follow the hands-off policy which avoids exercising any influence on a child's decision, a policy interpretad by Mary as "they don't care." Patar, on the other hand, is in tha middle of a power etrupols between father and mother and muet attempt to satisfy both. Ken comes from a home where the father leaves all home and family decisions to the mother, but the mother wants the father to accept responsibility for some. As a concequence, both svoid doing anything about "school decisions." How indeed can the counselor communicate affectively with a etudant unless the counselor's perception of the home from which the student comes is reasonably close to the reality? He may not know this student's home, at lasst not st first, but he must know the various patterns of modern family life and the social influences that create these patterns.

It same apparent that the careful student of the family will distinguish between long-term and short-term changes in marriage and family phenomens. Long-term trands--smaller households, changing suthority patterns. changing role of bushend and wife-were undoubtedly related to industrialisation and urbanization transfe. Perhaps also these are expressions, in the social language of this period, of equalitarian and enhancement values. Short-term changes are those in response to economic levels and conditions of war and posses, best typified by marriage rates and birth rates.³³

It seems likely that the long-term trends will not be modified easily no matter how much agitation is developed. They are a reality to be lived with like death and taxes. No one is going to bring beat the economically integrated, self-sufficient, authority-contered rural home both because only 12 percent of /merican families now live on farms and because rural families also change. Living in matropolitan eress will increase as will the proportion of married momen sho work outside the homes. Family abolity has increased, with about one fifth of /marican families reported as moving from one community to another within a single year. Humy of these trends may will be a cause of concern but they are tited to long-range social changes which are likely to persist or intensify. 34.

³³ Byrne, op. cit., p. 21.

³⁴ Wrenn, op. cit., pp. 28-29.

CHAPTER V

IMPLICATIONS FOR COUNSELING (THEORY OF RATIONALE)

First, and most bests is the halping relationship to students, perents, end teschers. The writer is convinced that the counselor must be ecen more end more ee helper to teschere, not taking the tescher's problem students off his hands, necesserily, but in being a thoughtful and censitive person in terms of student behavior ee the tescher meete these problems. Maybe this includes being the halpful person to the tescher personally. Certainly this must be true of the counselor's relationship to parents.

One cennot talk with parente about their children without esseing pretty cleerly the needs and problems of the parente. And maybe ell one does in helping a parent with the child is to help the parent with himself. Just listening with some degree of ecceptance may chenge the parent's attitude toward his child end the school more effectively then enything one might do directly. A counselor can be the first person the parent ever had contact with at the echool who simply listene to the parent ever had contact with at the echool who simply listene to the parent ever had contact with at the echool who simply listene to the parent ever had contact with at the chool who simply listene to the parent ever had contact with a the consolid does not have to have ensures. Maybe the student's problems never come into the picture. The writer is convicted that this le one valuable way of working with parents.

Secondly, the counselor is the coordinator and developer of certain things in the echool progree which together could be thought of as e guidence progree. The writer is thinking perticularly about the wey in which information about students is collected, interpreted, and utilized by everybody on the steff. Probably this is a counselor function. Somebody has to know the community resources and provide some lisison between the school and the community; maybe that is the job of the counselor. If this coordination can be done by the teachers, the principal, or someone else, fine; don't take it on. And don't take on too many of these general functions. This is what counselors have done in the past.

The third responsibility of the counselor is to serve as a member of the educational team of the school, a team composed of the principal, teachers, supervisors, and other personnel workers such as school psychologists. The counselor is a member of this team, and he cannot attend off and be superior. The problem is how to find a way in which his particular talents and abilities can be best utilized. These abilities die on the vine if he is asked to do a lot of busy work and become an administrative sesistant to the principal or a trouble shooter for the teacher. If this occurs then his team membership is being prestituted, even though he is a member of the team and must do some things that everybody does, such as serving on committees.

The image of the counselor presented thus far is that of a person who is increasingly aware of his specialized responsibilities. He is a person with a mission, the boundaries of which are encompassable. He is an educator and he is a psychologist but neither term describes his work with adequate preciseness. He is a specialist in student behavior, its present manifestations and its potentials for growth. He sees the student as a dymanic changing personality, constantly affected by various

¹ The Teachers College Journal, Indians State College, Terre Haute, Indiana, Vol. XXXV, No. 6, May, 1964.

environments, each of which in turn is dynamic and moving in certain directions. He is a specialist in human relations and in the psychology and sociology that makes people behave the way they do.

The image here presented is that of a changing counselor, too. The look is to the future; each counselor will move from where he is now in the direction of these stated goals if the needs of our changing children and youth are to be met. He may never arrive there—he may find it quite enough to keep moving. He one expects any more. He counselor need be a superman but he must be a person who is able to live with the amareness that he can never quite live up to his job. All who want a placid self-contained life about also whore.

² Wrenn, op. cit., p. 134.

CHAPTER VI

RECOMMENDATIONS, SUMMARY AND CONCLUSIONS

- 1. Perhaps the most serious deficiency in our educational system has been the inadequate opportunities available to those in greatest need, namely, children of families and communities where there is cultural deprivation, segregation or isolation. At least 100,000 additional classrooms and 133,000 teachers would be necessary by 1970 to provide compensatory full-year education from ages three to five for all who are in need of it.¹
- The quantity and quality of primary and secondary education, especially in low-income urban areas and rural backwaters, should be improved.
- 3. High school graduation should become universel. It is generally accepted that those with less than a sound high school education are unprepared for both employment and life. To accomplish this, both the problems of motivation and inadequate family income must both be faced realistically.
- 4. For most secondary school pupils vocational training should be deferred until after high school. General education is especially necessary in a rapidly changing economy in which versatility and flexibility are at a pressum. The training for many-perhaps most-especific jobs can and must be done on the job as a reaponability of the employer. However, properly designed vocational education can help implant the self-renewal indispensable for continuing adaptability in a changing world.

¹ Consnt, op. cit., Chapter 11.

- 5. A nationwide system of free public aducation through two years beyond high school (grade fourteen) should be established.
- 6. All quelified students should have reelistic access to university aducation. No quelified atudent should be deprived of education at env level because of his family's lock of financial resources.
- 7. Education, training, and retraining should be available to individuals throughout their lives. The ability to manege change, whether to keep up with new developments in a profession or to ratcol for a new job, requires that further education be available when needed. Fublic education should provide e comprehensive program of educational opportunity for persons of all ages end of verying educational attainments. A system of education that is open-minded, with freedom for mature atudents to enter, leave when alternetive experiences seem more fruitful, end then re-enter, can be a reality through the coordinated efforts of public schools, community colleges, vocational schools, universities, end employers.
- 8. Of special importance is the need to provide more extensive educational opportunities for adults whose besic education is deficient. It must be recognized that every effort to improve the education of children now in school will increase the disedventages of adults with substandard education. Recent developments in educational technology appear to have special epplicability to the needs of the adult learner.
- Morkers should be given incentives to underteke full-time educational programs during periods of layoff and during negotiated ambhatical leeves.

10. The task of expanding adventional opportunity must alse focus on those who appear unable to respond effactively to existing systems and methods. New adventional technologies are under development that show promise of helping those who have been regarded as slow learners or as poorly motivated.

11. In retrospact, one of the highest return investments we as a netion have made was the GI bill following the Second World War and the Korean War. Not only did we sid vestrans to make up lost years, but we brought about a varitable social revolution. Wen and women whose backgrounds pracluded the possibility of higher education and advanced training were lifted into totally unexpected positions in life. And in simple monetary terms, the investment has already bean returned in taxes on their higher incomes. The lesson should not be forgotten or neglected.²

Our world has faced change since the beginning of time, but we have a different problem than our predecessors. The difference is in the rate of change. A generation sgo one could nore nearly teach definite answers to specific questions in most subjects, and this type of education was antirely satisfactory for students who were graduating into a world that was fairly stable and certain—a world where the knowledge they learned in school would last a lifetime. Look at the contrast today. The time has passed when it makes sense to concentrate our efforts on teaching specific questions.

² Bowen and Mangum, op. cit., pp. 65-66.

Our students of today will in a few years be called upon to answer many questions to which we do not know the answers today. More important, they will be solving problems for which we do not even know how to poss the questions.

Sixty per cent of today's male students will swentusly and up in jobs which do not even exist today. With such a rapidly changing world ahead of us, the question to which we must seek an answer is:

Hew do we aducate our students to live and work in a world which will be so very different from what we know today? We literally are in the midst of a tremendous knowledge explosion. By 1800 the sum of human knowledge was doubling every 50 years. By 1950 the sum of knowledge was doubling every 10 years, and by 1970 it will be doubling every five years. This ever expanding knowledge explosion not only presents difficult questions of what we teach and how we teach it, but sloop poses complex questions of what we teach and how we teach it, but sloop poses complex questions of bot to find and use the knowledge which is available to us.

Fortunately there seems to be a may to master these huge quantities of information—that way is the computer. A typical computer can memorize a billion or more bits of information in a matter of seconds. These computers can talk to esch other over distances of thousands of miles, and they are so efficient and so fest that the entire novel "Gone With the Wind" could be trememitted in about three minutes.

³ F. Mark Gerlinghouse, "Challenge to Education in an Ers of Accelerated Change," <u>School and Community</u>, Vol. LI, No. 5 (Jan., 1965), p. 11.

In the field of education, the computer should have great potential. But it is, after all, a machine end it can do only what some human brain tells it to do. The computer does not know anything. It can store end recollect, identify and judge when it is told how. But it has to be told by man. The computer is incredibly fast, accurate and stupid. By comparison, ann is alow, aloppy and brillient.

In the interaction of the two, there will certainly be written a major part of the atory of our future progress. What should we be doing about it? How do educators keep pace? There is no single, simple enswer. Perhaps the answers will be found through research, and here the word is used in its broadcast sense—to include all kinds of experimentation and social studies of new ideas.

Some research is needed in such areas as:

 How the public achools can best epproach the alimination of the unskiller worker.

For the student who is not headed for college, perhaps we need some drastic changes in our thinking about the kind of education which will best prepere him for life in this world of accelerating change.

2. How long should the achool year be?

Our present concept of nine months of school and three months of vecation originated with our fermer ancestors who needed to have their children available to help them on the farm during the summer. In the idea atill practical even though times have changed?

 How do we best teach our young people to continue to be good, independent learners so that they can keep pace with the changing world? A recurring observation of this report has been the vagueness of the educational response to the challenge of the new technology. Donald Michael has stated the issue well:

The problem involves locking sheed five, tem, twenty years to see that are likely to be the occupational and secial needs and attitudes of these future periods planning the intellactual and social aducation of sechs age group in the numbers needed, activating years people to seek . . . certain types of jobs and to adopt the dealrable and mecasary attitudes; providing anough suitable teachers; being able to alter all of these as the actualities in society and tachnology indicate.

Because vocational and technical education are a service so vital to the nation, there now exists comething of a national comesses that mee efforts be made, that decisions and commitments be reached. The Vocational Education Act of 1963 evidences on administration and congressional determination to come to grips with this nation's problems of youth and work. By its nature, that act was formulated as a bank account for, as a mandata to, American education to provide new and meaningful vocational preparation for this nation's youth. Educational decisions will have to be made, decisions that will affect the future direction of the entire educational system, just as earlier vocational education decisions did in 1962 and 1917. The questions are, therefore, by whom and on what basis. 5

Donald Michael, The Silent Conquest (Santa Barbers, Calif.: Center for the Study of Democratic Institutions, 1962), pp. 41-42.

⁵ Grant Venn, <u>Man Education and Work</u>, American Council on Education, Washington, D. C., 1964, pp. 153-154.

Technological change will continue, as a master of all or as a servant for all. The overriding necessity of our time is to prepare youth and adults to use technological edvancement for the benefit of every individual and the strengthening of the total society.

Education, although not the sole means, is the best means by which the individual and society can adjust to technological change. The real task is to make aducation the driving force in the equipping of all youth and adults to meet the technological explosion siready so far advanced.⁶

The new technology has removed the margin for educational error. Historically, the number and kind of jobs available to the unseducated and undereducated permitted schools and colleges a "margin for error" in planning educational programs and providing educational opportunities. Today, however, the inability of a technological society to make full use of uneducated individuals narrows the margin to the point where the repercusaions of each educational failure can be felt throughout the entire society.

Technological change has immediate impact which is nationaide in scope. The absence of a national educational policy has tended to obscure this factor, which affects the course of both general and occupational education. The uneducated becomes the unemployed no matter where he resides.

Occupational education must become a responsibility of society. The cost of failure to provide occupational education is incalculable, whether viewed in terms of national security, economic growth, or political and social atability. A proper investment in occupational education is at least a concration overdow.

⁶ Venn, op. cit., p. 155.

Occupational education must become an integral part of total education. The importance of general education to the individual and his success in occupational preparation, as well as to the preservation of national values, cannot be oversetizated, however, it is not enough for the great majority of youth and soults who work in today's society. To provide general education without occupational education is to ignore the facts of modern technological life; to attempt one without the other is to be totally unrealistic.

Occupational education is the responsibility of every asgment of the educational system. Each segment of oducation must provide the kind of occupational education most appropriate to atudents enrolled in that level of the educational system. No single segment of education can provide the diversity of occupational education needed to meet the wide range of occupations or satisfates and aspirations among youth and adults of the nation.

Righer education has a responsibility to raise the educational level of all American youth. It is no longer sufficient that Junior colleges, colleges, and universities educate the relatively few. Rather, post ascendary education must become a catalyst for the over-all improvement of a free society. The evidence was never clearer that the greatest waste of human talent results not only from a failure to educate the gifted but from neglect of those who make up the great "average" in America.

Sound occupational choice is made in direct proportion to information, guidance, and opportunity available to the individual. The zight occupation does not assure anyone of a good choice unless there is a basis for judgment. Failure to provide adequate occupational guidance to youth

and adults represents still another tragic waste of manpower. For too long, choice of occupation and therefore choice of occupational preparation has been left primarily to chance.

The image here presented is that of a changing counselor, too. The look is to the future; this means provisions for keeping such information current and up to date and provision for its interpretation to both students and staff. This may be done by the counselor's use of the group process, through regular classes as parts of the curriculum, and through automated provisions for the meterials to be kept current and in condition for use by students and counselors. He should be expected to provide lesdership in ideas that grow out of his knowledge of student life and human relations in general, and knowledge of vocational and social conditions.

SELECTED BIBLIOGRAPHY

BOOKS

- Bettelheim, Bruno and Morris Janowitz. Social Change and Prejudice.
 Illinois: The Free Press, 1964.
- Borow, Henry. <u>Man in a Morld at Work</u>. Boston: Houghton Mifflin Co., Boston: Houghton Mifflin Co., 1964.
- Bowen, Howard R., and Garth L. Mangum. <u>Automation and Economic Progress</u>. New Jersey: Prentice-Hall, Inc., 1966.
- Byrne, R. H. The School Counselor. Boston: Houghton Mifflin Co., 1963.
- Conant, James B. Slums and Suburbs: A Commentary on School in Metropolitan Areaa. New York: McGraw-Hill Book Co., 1961.
- Gordan, Robert Aeron and Margaret S. Gordan. Prosperity and Unemployment. New York: John Wilay and Sons, Inc., 1966.
- Grimer, Alan P. <u>Equality in America</u>. New York: Oxford University Press, 1964.
- Knight, Dunlap. <u>Paraonal Adjustment</u>. Naw York: McGraw-Hill Book Co., 1946.
- Maritian, Jacques. <u>Education at the Croasroada</u>. Connecticut: Yale University Prass, 1949.
- Mason, Ralph E., and Patar G. Heines. <u>Cooperative Occupational</u>
 <u>Education and Work Experience in the Curriculum</u>. <u>Thinoiss</u> Tha
 <u>Interstate Printers and Publishers</u>, Inc., 1965.
- Millar, Richard I. Education in a Changing Society. Naw Yorks
- Moora, Wilbert E. <u>Social Change</u>. New Jersay: Prentica Hall, Inc., 1965.
- Mortenaen, Donald G., and Allan M. Schmuller. <u>Guidance in Today's Schools</u>. New York: John Wiley and Sons, Inc., 1966.
- Ovard, Glen F. Administration of the Changing Secondary School.
 Naw York: The Macmillan Company, 1966.

- Stewart, Lawrence H. and Charles F. Wernath. The Counselor and Society (A Culturel Approach). Boston: Houghton Mifflin Company, 1965.
- Strang, Ruth. Counselor Techniques in College and Secondary Schools.
 New York: Harper and Brothers, 1937.
- Trump, J. Lloyd and Doracy Baynham. <u>Guide to Better Schools</u> (Focus on Change). Chicago: Rand McNally and Company, 1961.

PERTODICALS

- Arthur, Robert. "What Industry Expects of Youth," American Yocational Journal, 40:18-20, December, 1965.
- Bello, F. "The 1960's a Forecast of the Technology," Fortune, January, 1959, pp. 74-78.
- Blum, Albert A. "Job Skills for Automated Industry," Management of Personnel Quarterly, 4:24-31, Winter, 1966.
- Garlinghouse, F. Mark. "Challenge to Education in an Era of Accelerated Change," School and Community, 51:5 (January, 1965), p. 11.
- Getzela, J. W. "Changing Values Challenge the Schoola," <u>The School Review</u>, 65:16-17, Spring, 1957.
- Goodlad, John I. "Directions of Curriculum Change," The Education Digest, 40:34-36, February, 1967.
- Hoyt, Kenneth B. "The Challenge to Vocational Education from Guidance," <u>American Vocational Journal</u>, 41-2:28-31, February, 1966.
- Larson, Robert S. "Counselor's Concern for the Changing School and Curriculum," <u>Methonal Association of Momon Deans and Counselors</u>, 29-4: (Fall, 1965), pp. 22-3.
- Mulligan, F. Kenneth. "Career Development and the Future," <u>Journal of College Placement</u>, 26:10-12, April, May, 1966.
- McMurrin, Sterling N. "Education for Freedom in a Free Society," <u>School Life</u>, 44-6 (April, 1962), p. 5.
- "Oh, How Your Life Has Changed:" Changing Times, 21-1 (January, 1967), pp. 12-13.
- "Teaching Obsolescent Skills Widena Gap Between Education and Technology,"
 <u>Catholic School Journal</u>, 44:44-45, June, 1964.

- Tha Teachers College Journal, Indiana State College, Terre Haute, Indiana, Vol. XXXV, No. 6, May, 1964.
- Unruh, Adolph and C. T. Richardson. "Counseling in an Age of Change," <u>The Clearing House</u>, 41-3: (Novambar, 1966), pp. 149-53.
- Watlay, D. J. "Counselor Confides in Accuracy of Pradictions," <u>Journal of Counseling Psychology</u>, 13:62-3, Spring, 1966.
- Wolfe, D. "Guidance and Educational Strategy," <u>Personnel and Guidance Journal</u>, 33:17-20, December, 1958.

PUBLICATIONS OF THE GOVERNMENT AND OTHER ORGANIZATIONS

- Bursau of the Census. <u>Mobility of the Population of tha United States</u>, March 1960 to March 1961. Washington: Department of Commerce, 1962.
- Killingsworth, Charles C., "Automation, Jobe and Manpower," in Subcommittee on Employment and Manpower, United States Senate, Selected Readings in Employment and Manpower Exploring the Dimensions of the Manpower Revolution. Mashington Government Printing Office, 1964, pp. 203-204 (hereafter cited as Selected Readings.)
- National Education Association. <u>Teacher Supply and Demand in Public Schools of the United States</u>. <u>Research Report 1984</u> R-9, Washingtons The Association, 1984.
- National Planning Association. National Economic Projection: Elements of Economic Growth Judgment Models in 1965-70, 1960 Series, Washington: The Association, 1960.
- President's Commission on the Status of Momen. Washington: United Government Printing Offica, 1963.
- United States Department of Labor. Bureau of Labor Statistics.

 "America's Industrial and Occupational Manpower Requirements,
 1964-75," The Outlook for Technological Change and Employment.
 Mashingtons U. S. Government Printing Office, 1964.
- United States Department of Labor, <u>Bureau of Labor Statistics</u>. "Industry, Productivity, Projection." <u>Weshingtons Government Printing Office</u>, 1966.
- United States Department of Labor. Manpower, Challenge of the 1960's.
 Washington: U. S. Government Printing Office, 1961.

Venn, Grent. Man, Education and Work. American Council on Education.
Washington: Government Printing Office, 1964.

ARTICLES IN COLLECTIONS

- Beck, Saul S. The Changing Counselor in a Changing Culture. New Yorks Chronicle Guidance Publications, Inc., 1965-66.
- Bernert, Eleanor H. "Demographic Trends and Implications." The <u>Mation's</u>
 <u>Children</u>. Eli Ginzberg, Editor. Report of the 1960 White House
 Conference on Children and Youth. New York: Columbia University
 Press, 1960.
- Meir, R. C. "The Worldwide Prospect," H. Jarrett (ed.). Science and Resources. Beltimore: The Johne Hopkins Press, 1959, p. 34.
- Michael, Donald. <u>Cybernation: The Silent Conquest</u>. California: Center for the Study of Democratic Institutions. 1962.
- Stephenson, E. P. "Paat Gains and Future Promise," <u>Science and Resources</u>. H. Jarrett, editor. Baltimore: The Johne Hopkins Prese, 1559.
- Molfbein, Seymour. "Labor Trends, Manpower and Automation," <u>Man in the Morld of Mork</u>. Boston: Houghton Mifflin Company, 1964.
- Wrenn, C. G. The <u>Counselor in a Changing World</u>. Weahington: The American Personnel and <u>Guidance Association</u>, 1962.

NEWSPAPER

Urben, Bailey C. "Working Wives on the Upward Move," The Wichitz Eagle and Beacon, March 5, 1967, p. 3E.

CHALLENGE OF CHANGE FOR THE HIGH SCHOOL COUNSELOR (A TYPOLOGY OF CHANGE PROCESS)

by

OVETTA W. STEELE
B. S., Alabama State College, 1962

AN ABSTRACT OF A MASTER'S REPORT

submitted in partial fulfillment of the

requirements for the degree

MASTER OF SCIENCE

College of Education

KANSAS STATE UNIVERSITY Manhattan, Kansas The present egs is like no other, but is one in which the revolution in science and technology has transformed the entire pattern of delly life. Since change is the order of the day, no one cen predict with security what the next cantury will produce or what life will be like then. One can only try to distinguish some important current trends, to project them, and to see what the results are most likely to be.

The burden of uncerteinties and the drastic scope of elternative possibilities which have become apparent in our time have made commonpless the edge that "human history is more and more e race between aducation end cetestrophes."

Social change is not only rapid, but uncartain and complicated. One cannot predict pracisely how it will effect our values and our way of life. The release of atomic energy is both heartening for human welfers and friebtanion.

The increesing recognition that women heve much to contribute in all occupations and profassions is a move in the right direction. But it will change the concept and make-up of the family in ways that cannot be foreseen. Such changes poss problems but they are problems which seamingly can be met if we era prapared to face up to the full implications of these problems.

The growth of the world's population has grave implications for American youth and their education. An understanding of population phanomens and their educational implications is assemital to the task of providing education for a growing and mobile population. Migration has been part of America's history, and easy mobility s characteristic of its people.

The automation revolution is changing the occupational structura fully as drastically as did the industrial revolution, the difference being in the increase of the brain power required.

The changing nature of the occupational world, the world of work, is semingly an interection of many forces. Among the major sepacts of the forces for changes are chenging make-up of the labor force. The coccupations that require the most education and training have grown the fastest, while smployment has dropped in unakilled jobs. Among blue-collar workers, those in skilled jobs had almost all of the increase in employment in the past deceds. The number of farm laborers declined, and there was no real increase in operative and other smmi-skilled jobs.

Social change hurte worse at the femily lavel. It is more important than ever before that the counselor become a student of femily life. If the home is changing, then the counselor must keep up with the changes in order to understand and help the student.

The counsaior of tomorrow will no longer be a teacher appointed to the job because she relates well with students or because she merits some reward for years spent in the classroom. Rather, she will be a highly trained professional who is capable of helping students in any and all areas of that's live.

The answers to complex sducational problems slways have been difficult, but even more so now and for the future. Even as talk

concerning decisions on certain issues being made, the guidelines themselves are changing. Therefore, we have less and less direction and knowledge from past experience than we have ever had before.

This report, ebove ell, looks to the future. It emphasizes the crucial feet that there is only one may to continue to serve youth in the years ebead. One must understand the new forces of change that ere influencing young people, as well as others. One must learn to apply new insights into the nature of the individual.

An etempt has been made to write clearly and simply about the changes of today, about the needs of young people for counseling help in e rapidly changing world, indeed a Challenge of Change for the High School Counselor.