A STUDY OF CHANGES IN SELF-REPORT CONCERNING CULTURAL BIAS AND OPENNESS TOWARD CHANGE AMONG DESEGREGATION WORKSHOP PARTICIPANTS

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SUMMARY

The sixty five teachers who attended a desegregation workshop were administered two instruments which attempted to measure cultural bias and openness toward change. Upon factor analysis the Curriculum Change Measure yielded 14 factors. Comparisons of pre-test and post-test results showed that small changes had occurred in the desired direction, as measured by the Cultural Differentiation Measure and the Curriculum Change Measure.

INTRODUCTION

During the summer of 1970 a six-week workshop was held for approximately 65 teachers who taught at six newly integrated secondary schools. This bi-racial group of teachers was involved in small group, problem-centered discussions, in the reading of pertinent books, in role play of inter-racial student-teacher interactions, in small group encounter discussion, and in large group presentation-discussions. The goals of the workshop were essentially two-fold.

- 1) To help teachers become more accepting of people from other cultures and races,
- 2) To help teachers accept and plan for teaching in open-space instructional areas.

A review of relevant literature revealed that a number of attempts to assess teacher readiness for curriculum change have been reported in doctoral studies.

Trumbo (1961) studied the attitudes toward change of 278 employes of an insurance company with a nine-item, Likert-type scale he leveloped. He reported an odd-even reliability of .79, astonishngly high for such a short instrument. Dempsey (1963) investigated relationships between teacher's judgment of barriers to curriculum change and scores on the Trumbo Readiness to Change Scale and reported that those with higher scores on the Change Scale tended to perceive fewer barriers than those with lower scores.

Childs (1965) investigated the relationship between belief systems of school administrators and teachers and the adoption of new educational practices. He sampled eight school districts, four relatively innovative and four relatively non-innovative. Using an innovativeness scale of his own and a cost factor index he reported a significantly greater proportion of teachers in the innovative schools and open belief systems than was the case with teachers from noninnovative schools.

Duncan (1954) devised the Curriculum Improvement Measure (CIM) to measure readiness of school faculties for curriculum change. The 24-item, Likert-type instrument contains six questions each on attitudes toward groups, pupil and school problems, curriculum improvement, and modern social problems. The CIM has a reported internal consistency reliability of .65. This relatively low reliability makes it an inadequate instrument for identifying individuals or assessing small groups. But the instrument may be used to assess attitude changes for relatively large faculties or teacher groups. Its validity was established by showing that school faculties rated by faculty members working with them as high on curriculum change tended to score higher as a group than school faculties judged to be doing relatively little curriculum change.

Leas (1965) compared academic-area traditionalists and innovators on his own questionnaire, the Gough-Sanford Flexibility Scale, ind the Rokeach Opinionation Scale. The Opinionation Scale diferentiated in degree of conservatism between traditionalists and nnovators, and the Flexibility Scale indicated greater flexibility or the innovators. Leas found some other differences which might ave relevance in constructing a scale.

An attempt to measure teacher attitudes which are relevant to the teaching of underprivileged children was reported by Edwards (1966). Factor analysis of responses to the Cultural Differentiation Questionnaire (CDQ) revealed a far more complex factor structure than the original six dimensions would have indicated. In this study the instrument did detect some expressed changes in participants' responses while participating in workshop sessions dealing with the education of the underprivileged.

PROCEDURE

As a result of this review of the literature, the 72 item questionnaire reported by Edwards (1966) was used to measure changes that might occur in reference to the acceptance of people from other cultures and races.

Another questionnaire was created by editing Duncan's (1954) CIM items, and by editing Trumbo's (1961) Work Related Change Scale items and by selecting some items from Rokeach's d-scale (1960), and then by merging them into a single instrument labeled the Curriculum Change Measure (CCM). A six-point Libert-type agree-disagree response mode was provided for all but one of the items. This 55 item instrument was used to measure changes that might occur in reference to the acceptance of open-space instructional area and the needed curricular changes which must occur in order to utilize these open-space areas.

The CDQ and the CCM were administered to the workshop participants early on the second day of the workshop and on the next to last day of the workshop. This is a pre-test, post-test, one group design. This type of design cannot show that any changes that were observed are the result of workshop participation. However, if changes are or are not observed in the desired direction, we may conclude that desired changes in the group were or were not expressed regardless of the cause.

The participants were instructed to use the last four or five digits of their phone numbers or social security numbers or to make up a number which they could easily remember to use on the post-questionnaire. The numbers used by the participants on their pre-questionnaires were displayed by an overhead projector during the post testing session. Of the 62 people who responded on the pre-questionnaire, 52 of the 58 post-questionnaires were matched with identically numbered pre-questionnaires. It was explained to the participants that the numbering procedure was necessary for the use of certain types of statistical data analysis.

Edwards (1966) reported the factor structure for the CDQ. Since no such information was available for the CCM it was necessary to factor analyze it in order to be able to develop subscale scoring. The pre-test and post-test responses of all participants on the CCM were pooled and factor analyzed using a computer program from Guertin and Bailey (1970). This computer program, EEL 503 produces orthogonal varimax solutions. The 14 factor solution was chosen as the solution that produced the most easily reationalized factors. This 14 factor solution accounted for 59.75 percent of the total score variance and for 75.65 percent of all common variance. Table 1 presents the factor labels, item statements, item numbers, factor loadings, row sum of squared loadings, and communality estimates (h^2) .

TABLE 1The Fourteen Factor Solution for the CCM

-				
			Row Sum	of
		Factor	Squared	
Re	ms and Factor Labels	Loadings	Loadings	h4
Fa	ctor 1 Curricular Traditionalist			
19.	In a curriculum improvement	0, 67	0.58	0. 73
	curriculum and curriculum theory should be given by a			
	consultant			
24.	It is essential in a curric- ulum improvement program that the teachers thoroughly	0.62	0.66	0, 82
	study a good text on curriculum			
27,	It would take a sizeable raise in pay to get me to	0.49	0.39	0, 62
_	voluntarily transfer to another position			
22.	To be a good group leader in our school a person must be	0, 40	Q. \$6	0, 75
	able to control the people in the group			
38.	Learning is essentially a process of increasing one's	0.37	0. 71	0. 85
	store of information about various fields of knowledge			
33,	Intelligent self-direction can be developed best through	0, 33	0. 53	0. 82
	participating in experiences for which the individual		•	
	feels a direct concern			
20,	I like a work situation where	0.11	0.65	0.76
	I know that I will be doing	0. 91	0.01	0.75
	my work about the same way			
	one week to the next			

			Row Sum o	1
		Factor	Squared	2
		Loadings	Loadings	<u>h</u> "
Fac	tor 2 Experimentalism			
50.	Controversial issues should	0, 75	0.87	0.98
	he taught in schools because			
	they hain the student better			
	determine his role in society			
	Discussing controus and	0.71	0.63	0.87
9 4 .	Incuising controversian	0. 11	0.05	0.02
	issues in the classroom			
	is a good way of neiping			
	youth develop their judgment			
43.	Existing knowledge is	0, 70	0,63	0, 77
	tentative and is subject to			
	revision in light of new facts			
42,	Teachers and pupils should	0,68	0.64	0.79
	become involved in the			
	problems and issues of our			
	time			
52.	Teachers and school	0,60	0,56	0.74
	administrators have the same			
	duty to take an active part			
	In the political affairs of			
	the the pointical amains of			
	the community as any other			
	Citigen	- 10	~ / ^	
48.	When the school remains	0.59	0.68	0.82
	silent on social issues, it			
	is not meeting its			
	responsibilities			
37.	By continuous experiment-	0. 55	0.51	0.76
	ation with new materials,			
	teachers can gradually			
	improve the program of			
	instruction			
47	We will give the heat	0.52	0.55	0.83
•••	education to each child if	•. • •	•	
	we emphasize surnore activ-			
	we emphasize purpose, activ-			
	tty, freedom, and an-around			
	Bevelopment		0.49	0.77
1.	Ine intelligence of the	0. 51	0,40	0, 12
	people should be relied			
	upon for governing themselves			
Z.	The best form of democratic	0.44	0.65	0.75
	decision making is by			
	majority vote			
36.	The traditional moral	0, 42	0.65	0.84
	standards of our culture			
	should not just be accepted;			
	they should be examined and			
	tested in solving the present			
	problems of students			
	providente of ordinactive			
-44,	To learn means to devise	0, 41	0.74	0, 86
	way of acting in a situation			
	for which old ways are			
	inadequate			
55.	The work situation that you	0, 38	0.57	0,80
	would consider ideal for			
	you would be one where the			
	way you do your work:			
	(check one)			
	Is Always the Same			
	Ta Tienally the Same			
	Inducided			
	Changed to Some Ent			
	Observe to Some Extent			
	Unanges a Great Deal			

			Row Sum o	of
		Factor	Squared	
_		Loadings	Loadings	h ²
F	ctor 3 Impunity from Criticism			
8.	The solutions for classroom	0,76	0.67	0, 81
	curriculum problems should be			
	given to teachers from			
	sources outside this school			
	bootices outside him school,			
	because the teachers here are			
	too busy to write complex			
10	curriculum plans			
10.	Bad classroom situations are	0, 73	0,67	0.83
	generally caused by students			
_	who misbehave		_	
9.	The trouble with most	0,56	0.81	0,93
	teaching positions is that			
	you just get used to doing			
	things in one way and then			
	they want you to do them			
	differently			
7.	Individuals lose their	0.56	0.57	0.70
- ,	effectivenase when they work	0.00	0.01	0.19
	in faculty answer having			
	in faculty groups having			
72	IV to 12 members			
23.	when I get used to doing	0.50	0, 46	Q. 66
	things in one way it is			
	disturbing to have to change			
	to a new method			
6.	It is characteristic of	0.46	0 60	0 73
	educational problems that if		0.00	0.15
	You try to solve one you			
	find two more and and we be			
	doing little shout sou of			
	abing intre about any or			
12	them			
14.	I would preter to stay with	0.4Z	0.70	0.86
	a teaching position that I			
	know I can handle than to			
	change to one where most			
	things would be new to me			
11.	Our school committees are most	0.40	0.43	0.70
	effective when a strong leader			
	controls the committee			
6,	One can never feel at ease on	0.35	0 69	0.80
	a job where the ways of doing	0.33	0.00	0. 80
	things are always being changed			
	things are erery being changed			
	_		cow sum of	
	2	actor .	Squared	2
F	1	oadings	Loadings	<u> </u>
	Endorsement of Competition	,		
10	Schools should be			
. v.	Schools should emphasize	0.59	0.47	0.65
	competition and self-reliance			
	more than cooperation and			
	adjustment			
14.	Society operates pretty much	0.45	0,66	0.76
	on a "dog-eat-dog" basis		-	
51.	You should teach a student	0. 44	0.67	0 78
	what he ought to know rather			
	than what he wants to know			
10.	There are too many social	0 16	0.67	A 10
	activities in school today		0, 31	v. 79
<u>.</u>	Grade schools should stick	0.22	0.40	
	to the three R's		0. 97	v. 73

			Row Sum of	
		Factor	Squared	. 2
		Loadings_	Loadings	<u> </u>
Fact	or 5 Moral Relativism			
		a 68	0.69	0 85
41.	Moral learning is experi-	0.08	0.07	
	mental; the child should be			
	taught to test asternatives			
	Before accepting any of theme	0.64	0 74	0.85
53,	In the interest of social	0.04	v	
	stability, the youth of this			
	into conformity with the			
	andnring beliefs and			
	Institutions of our national			
	heritage			
34.	The teacher must teach his	0.34	0, 55	0, 68
	or her students the correct			
	moral principles in order to			
	bring about their healthy			
	moral development			
29.	As a member of a small group	0.34	Q. 56	0. //
	I feel a responsibility to			
	participate whether I am			
	interested in the matter			
	Jon 10	0 31	0 58	0.77
26.	The goal of curriculum	0. 51	4. 50	
	improvement entorts is the			
	the introduction of new			
	CONTRACT CONTRACT			
_	000,000			
			Row Sum of	
		Factor	Squared	2
		Loadings	Loadings	<u> </u>
Fa	ctor 6 Sense of Responsibility	-		
	to Small Groups			
	_			
25.	As long as I am a member of	0.64	0.52	U. 60
	a group I am responsible to			
	abide by the decisions the			
	group makes	0.15	- 0.56	0 77
Z9.	As a member of a small group	p 0.33	0, 50	u. / (
	I feel & responsibility to			
	interacted in the matter			
	Interested in the matter			
26	The enal of curriculum	0, 34	0,58	77
20,	improvement efforts is the			
	revision of old courses or			
	the introduction of new			
	COULES			
_				
		T	Kow Sum or	
		Factor	Jondina	۶ ²
-		Losdings	Cost ings	
5.4	ctor (Traditionalism			
	The curriculum should	0, 61	0, 59	0, 81
40.	antein an orderly arranger		,	
	ment of subjects that			
	represent the best of our			
	cultural beritage			
17	. The trouble with many	0.51	0.41	Q. 55
	people is that when they			
	find a job they can do well.			
	they don't stick with it			
49	. The best preparation for	0.51	0, 61	0.80
	the future is a thorough			
_	knowledge of the past			
39	. Learning is a process of	Q. 46	0,65	0, 83
	mastering objective			
	knowledge and developing			
	skills by drill, trial and			
	error, memorization and			
-	Inglesi deduction	0.34	0.58	0.76
43	sion is mastery of knowledge	0.34	V. 70	v. 10
	tion to mentery of knowledge	÷		

		Row Sum	of
	Factor	Squared	,
Factor 8 Resistance to	Loading	s Loadings	<u>h</u> ²
Curriculum Change			
5. Is a curriculum improvement	0.75	0, 64	0.76
devote a good deal of time			
to demonstration teaching			
9. The trouble with most	0, 48	0, 81	0, 93
teaching positions is that			
you just get used to doing			
they want you to do them			
differently			
4. It is characteristic of	0.46	0,60	0, 73
educational problems that			
if you try to solve one you			
find two more and end up by			
of them			
55. The work situation that you	0.42	0 57	0.80
would consider ideal for		0. 51	0. 60
you would be one where the			
way you do your work:			
(check one)			
Is Usually the Same			
Undecided			
Changes to Some Extent			
Changes a Great Deal			
12 I mould and an to store with			
a teaching position that I	0.36	0.70	0, 85
know I can handle than to			
change to one where most			
things would be new to me			
		D	
	Factor	Sourced	
	Loadings	Loadings	h ²
Factor 9 Educational Isolationism			
18. As far as our school is	0.60	0.50	0, 76
concerned there is wisdom in the adapte list well second			
alone"			
13. The activities of such	0.60	0.45	0.66
different groups as schools,			
business, and government			
39. Learning is a process of			
Destering objective knowledge	D 49	~ * * *	
oojective kiidwiedbe	0.48	0,55	0.85
and developing skills by	0. 48	0, 55	0, 83
and developing skills by drill, trial and error,	0. 48	0.55	0, 83
and developing skills by drill, trial and error, memorization and logical deduction	0. 48	0, 55	0, 83
and developing skills by drill, trial and error, memorization and logical deduction 38. Learning is essentially a	0.48	0, 55	0.83
and developing skills by drill, trial and error, memorization and logical deduction 38. Learning is essentially a process of increasing one's	0. 48	0, 55	0. 85
and developing skills by drill, trial and error, memorization and logical deduction 38. Learning is essentially a process of increasing one's store of information about	0. 48	0, 55	0, 85
and developing skills by drill, trial and error, memorization and logical <u>deduction</u> 38. Learning is essentially a process of increasing one's store of information about the various fields of	0. 48 0. 4 5	0, 55	0. 85
and developing skills by drill, trial and error, memorization and logical <u>deduction</u> 36. Learning is essentially a process of increasing one's store of information about the various fields of knowledge	0. 48	0. 55	0. 85
and developing skills by drill, trial and error, memorization and logical <u>deduction</u> 36. Learning is essentially a process of increasing one's store of information about the various fields of <u>knowledge</u> 33. Intelligent self-direction can be developed in the self-direction	0. 48	0. 55	0. 85
and developing skills by drill, trial and error, memorization and logical deduction 38. Learning is essentially a process of increasing one's store of information about the various fields of knowledge 33. Intelligent self-direction can be developed best through participation in	0. 48	0. 55	0. 85
and developing skills by drill, trial and error, memorization and logical <u>deduction</u> 36. Learning is essentially a process of increasing one's store of information about the various fields of <u>knowledge</u> 33. Intelligent self-direction can be developed best through participating in experiences for which the	0. 48	0. 55	0. 85
and developing skills by drill, trial and error, memorization and logical <u>deduction</u> 36. Learning is essentially a process of increasing one's store of information about the various fields of <u>knowledge</u> 33. Intelligent self-direction can be developed best through participating in experiences for which the individual feels a direct	0. 48	0. 55	0. 85
 and developing skills by drill, trial and error, memorization and logical <u>deduction</u> Learning is essentially a process of increasing one's store of information about the various fields of <u>knowledge</u> Intelligent self-direction can be developed best through participating in experiences for which the individual feels a direct concern 	0. 48	0. 55	0. 85
and developing skills by drill, trial and error, memorization and logical deduction 38. Learning is essentially a process of increasing one's store of information about the various fields of knowledge 33. Intelligent self-direction can be developed best through participating in experiences for which the individual feels a direct concern 26. The goal of curriculum	0. 48 0. 45 0. 32 0. 31	0. 55 0. 71 0. 53 0. 58	0. 85
and developing skills by drill, trial and error, memorization and logical <u>deduction</u> 36. Learning is essentially a process of increasing one's store of information about the various fields of knowledge 33. Intelligent self-direction can be developed best through participating in experiences for which the individual feels a direct <u>concern</u> 26. The goal of curriculum improvement efforts is the restricted for discussion	0. 48 0. 45 0. 32 0. 31	0, 55 0, 71 0, 53 0, 58	0. 85
 and developing skills by drill, trial and error, memorization and logical deduction 38. Learning is essentially a process of increasing one's store of information about the various fields of knowledge 33. Intelligent self-direction can be developed best through participating in experiences for which the individual feels a direct concern 26. The goal of curriculum improvement efforts is the revision of old courses or the introduction of new 	0. 48	0. 55 0. 71 0. 53 0. 58	0. 85

			Row Sum of	
		Factor	Squared	. 2
		Loadings	Loadings	<u>h</u> "
Fact	or 10 Activity Oriented School Program			
32.	School sports, folk games, clubs, and activities such	0. 79	0.77	0. 90
	as these should be an			
	important part of the			
	school program		A (F	0.91
47,	We will give the best	0.44	0.03	0. 63
	education to each child it			
	freedom, and all-around	,		
	development			0.02
33,	Intelligent sell-direction can be developed best through	U. 90	0.53	0.82
	participating in experiences			
	for which the individual feels			
36.	The traditional moral	0.35	0.65	0.84
50.	standards of our culture			
	should not just be accepted;			
	they should be examined and			
	tested in solving the present			
	problems of students			
40,	There are too many social	0, 31	0.57	0.79
	activities in schools today			
31.	Grade schools should stick	0, 30	0.49	0, 73
—	to the three R's			
			Barry Summ of	
		Feeter	Kow Sum of	
		Loadings	Loadines	h ^Z
Fac	tor 11 (Unlabelled)			
26.	School problems are usually	0.63	0.46	0.67
	caused by faulty administration			
14.	Society operates pretty much o a "dog-eat-dog" basis	n 0.50	0.66	0.76
48.	When a school remains silent	0.40	0.68	0.82
	on social issues, it is not			
	meeting its responsibilities		- / 2	
6.	One can never feel at ease on	0.33	0.68	0.80
	a job where the ways of doing	r		
	inings are always being change	··		
			Row Sum of	
		Factor	Squared	_
		Loadings	Loadings	<u>ь²</u>
Fac	tor 12 Subject Matter and			
	Control Orientation			
16.	The main reason that	0.64	0.56	0,76
	instruction should be			
	individualized is because			
	pupils differ in intelligence			
22.	To be a good group leader in	0.56	0.56	0.75
	our school a person must be			
	able to control people in the			
	group	0 61	0 44	n 46
Z1.	Discipline problems are beat	0.55	0.90	0,00
	nancied by locating the			
	cupricano property			
35	The backbone of the school	0, 53	0,64	0, 83
	curriculum is subject matter:			
	activities are useful mainly			
	to facilitate the learning			
	of subject matter			

F.	actor 12 Subject Matter and			
	Control Orientation (co	nt.)		
40	There are too many social	0 49	0 57	0.79
	activities in schools today	0,	••••	
3.8	Learning is essentially a	0 44	0.71	0, 85
	process of increasing one's			•••
	store of information about			
	the various fields of			
	knowledge			
45	The primary aim of instruc-	0.36	0.58	0.76
	tion is mastery of knowledge	0, 30	0.20	
12	I mould and the star with	0.26	0.70	0.95
14	. I would prefer to stay with	0, 30	0,70	U, 09
	a teaching position that 1			
	know I can handle than to			
	change to one where most			
14	things would be new to me		0.55	0 40
34	. Ine teacher must teach his or	0.31	0.55	V, 08
	her students the correct			
	moral principles in order to			
	bring about their healthy			
	morar development			
			P 5	
		Factor	Cow Suin C	~
		Loadinge	Lordinge	ъZ
Fa		Hoedings	Dougingo	
	CIDE 13 Preference for Work			
	Related Change			
•-	Related Change			
3.	If I could do as I pleased,	0. 71	0.54	0, 65
3.	If I could do as I pleased, I would change the kind of	0. 71	0.54	Q, 65
3.	Related Change If I could do as I pleased, I would change the kind of work I do every few months	0. 71	0.54	Q, 65
3. <u>20.</u>	If I could do as I pleased, work I do as I pleased, work I do every few months 1 like a work situation where	0, 71	0.54	0, 65
3. 20.	Related Change If I could do as I pleased, I would change the kind of work I do every few months I like a work situation where I know that I will be doing	0. 71 0. 47	0. 54 0. 61	0, 65
3. 20.	If I could do as I pleased, If I could change the kind of work I do every few months I like a work situation where I know that I will be doing my work about the same way	0. 71 0. 47	0. 54 0. 61	0, 65
3. 20.	If I could do as I pleased, I would change the kind of work I do every few months I like a work situation where I know that I will be doing my work about the same way one week to the next	0. 71 0. 47	0. 54 0. 61	0, 65 0. 75
3. 20. 26.	Related Change If I could do as I pleased, I would change the kind of work I do every few months I like a work situation where I know that I will be doing my work about the same way one week to the next The goal of curriculum	0. 71	0. 54	0, 65
3. 20. 26.	If I could do as I pleased, If I could do as I pleased, I would change the kind of work I do every few months I like a work situation where I know that I will be doing my work about the same way one week to the next The goal of curriculum improvement efforts is the	0. 71 0. 47 0. 39	0. 54	0, 65
3. 20. 26.	If I could do as I pleased, I would change the kind of work I do every few months I like a work situation where I know that I will be doing my work about the same way one week to the next The goal of curriculum improvement efforts is the revision of old courses or	0, 71 0, 47 0, 39	0. 54 0. 61 0. 58	0, 65
3. 20. 26.	Related Change Related Change If I could do as I pleased, I would change the kind of work I do every few months I like a work situation where I know that I will be doing my work about the same way one week to the next The goal of curriculum improvement efforts is the revision of old courses or the introduction of new	0, 71	0. 54	0, 65 0, 75 0, 77
3. 20. 26.	If I could do as I pleased, If I could do as I pleased, I would change the kind of work I do every few months I like a work situation where I know that I will be doing my work about the same way one week to the next The goal of curriculum improvement efforts is the revision of old courses or the introduction of new courses	0. 71 0. 47 0. 39	0. 54 0. 61 0. 58	0, 65 0, 75 0, 77
3. 20. 26.	If I could do as I pleased, If I could do as I pleased, I would change the kind of work I do every few months I like a work situation where I know that I will be doing my work about the same way one week to the next The goal of curriculum improvement efforts is the revision of old courses or the introduction of new courses One can never feel at ease	0. 71 0. 47 0. 39 0. 38	0. 54 0. 61 0. 58	0. 65
3. 20. 26. 6.	Related Change Related Change If I could do as I pleased, I would change the kind of work I do every few months I like a work situation where I know that I will be doing my work about the same way one week to the next The goal of curriculum improvement efforts is the revision of old courses or the introduction of new courses One can never feel at case on a job where the ways of	0. 71 0. 47 0. 39 0. 38	0. 54 0. 61 0. 58 0. 67	0. 65
3. 20. 26.	If I could do as I pleased, Related Change If I could change the kind of work I do every few months I like a work situation where I know that I will be doing my work about the same way one week to the next The goal of curriculum improvement efforts is the revision of old courses or the introduction of new courses One can never feel at ease on a job where the ways of doing things are always	0. 71 0. 47 0. 39 0. 38	0. 54 0. 61 0. 58 0. 67	0, 65
3. 20. 26.	If I could do as I pleased, If I could do as I pleased, I would change the kind of work I do every few months I like a work situation where I know that I will be doing my work about the same way one week to the next The goal of curriculum improvement efforts is the revision of old courses or the introduction of new courses One can never feel at ease on a job where the ways of doing things are always being changed	0. 71 0. 47 0. 39 0. 38	0. 54 0. 61 0. 58 0. 67	0. 65
3. 20. 26. 51.	Related Change Related Change If I could do as I pleased, I would change the kind of work I do every few months I like a work situation where I know that I will be doing my work about the same way one week to the next The goal of curriculum improvement efforts is the revision of old courses or the introduction of new courses One can never feel at ease On a job where the ways of doing things are always being changed You should teach a student	0, 71 0, 47 0, 39 0, 38	0. 54 0. 61 0. 58 0. 67	0, 65 0, 75 0, 77 0, 78
3. 20. 26. 51.	Related Change Related Change If I could do as I pleased, I would change the kind of work I do every few months I like a work situation where I know that I will be doing my work about the same way one week to the next The goal of curriculum improvement efforts is the revision of old courses or the introduction of new courses One can never feel at ease on a job where the ways of doing things are always being changed You should teach a student what he ought to know rather	0. 71 0. 47 0. 39 0. 38 0. 37	0. 54 0. 61 0. 58 0. 67	0, 65 0. 75 0. 77 0. 78 0. 78
3. 20. 26. 51.	If I could do as I pleased, If I could do as I pleased, I would change the kind of work I do every few months I like a work situation where I know that I will be doing my work about the same way one week to the next The goal of curriculum improvement efforts is the revision of old courses or the introduction of new courses One can never feel at ease on a job where the ways of doing things are always being changed You should teach a student what he ought to know the wants to know	0. 71 0. 47 0. 39 0. 38 0. 37	0. 54 0. 61 0. 58 0. 67 0. 67	0, 65 0, 75 0, 77 0, 77 0, 78
3. 20. 26. 51. 12.	Related Change Related Change If I could do as I pleased, I would change the kind of work I do every few months I like a work situation where I know that I will be doing my work about the same way one week to the next The goal of curriculum improvement efforts is the revision of old courses or the introduction of new courses One can never feel at ease on a job where the ways of doing things are always being changed You should teach a student what he ought to know rather than what he wants to know I would prefer to stay with	0, 71 0, 47 0, 39 0, 38 0, 37	0. 54 0. 61 0. 58 0. 67 0. 67 0. 70	0, 65 0, 75 0, 77 0, 78 0, 78 0, 85
3. 20. 26. 51. 12.	Related Change Related Change If I could do as I pleased, I would change the kind of work I do every few months I like a work situation where I know that I will be doing my work about the same way one week to the next The goal of curriculum improvement efforts is the revision of old courses or the introduction of new courses One can never feel at case on a job where the ways of doing things are always being changed You should teach a student what he ought to know rather than what he wants to know a teaching position that I	0. 71 0. 47 0. 39 0. 38 0. 37 0. 31	0. 54 0. 61 0. 58 0. 67 0. 67 0. 67	0, 65 0. 75 0. 77 0. 78 0. 78 0. 85
3. 20. 26. 51. 12.	If I could do as I pleased, Related Change If I could do as I pleased, I would change the kind of work I do every few months I like a work situation where I know that I will be doing my work about the same way one week to the next The goal of curriculum improvement efforts is the revision of old courses or the introduction of new courses One can never feel at ease on a job where the ways of doing things are always being changed You should teach a student what he ought to know rather than what he wants to know I would prefer to stay with a teaching position that I know I can handle than to	0. 71 0. 47 0. 39 0. 38 0. 37	0. 54 0. 61 0. 58 0. 67 0. 67 0. 70	0, 65 0, 75 0, 77 0, 77 0, 78 0, 78 0, 85
3. 20. 26. 51. 12.	Related Change Related Change If I could do as I pleased, I would change the kind of work I do every few months I like a work situation where I know that I will be doing my work about the same way one week to the next The goal of curriculum improvement efforts is the revision of old courses or the introduction of new courses One can never feel at ease One can never feel at ease on a job where the ways of doing things are always being changed You should teach a student what he ought to know rather than what he wants to know I would prefer to stay with a teaching position that I know I can handle than to change to one where most	0, 71 0, 47 0, 39 0, 38 0, 37	0. 54 0. 61 0. 58 0. 67 0. 67 0. 70	0, 65 0, 75 0, 77 0, 78 0, 78 0, 85

		Factor Loadings	Row Sum of Squared Loadings	h ²
Fac	ctor 14 Authoritarianism			
44.	To learn means to devise a way of acting in a situation for which old ways are inadequate	0. 66	0. 74	0. 86
15.	A difficulty with group work is that the able people get outvoted by the average	0.64	0.59	0.80
45.	The primary aim of instruc- tion is mastery of knowledge	0.41	0.58	0.76
35.	The backbone of the school curriculum is subject matter; activities are useful mainly to facilitate the learning of subject matter	0, 38	0, 64	0, 83
51.	You should teach a student what he ought to know rather than what he wants to know	0, 37	0.67	0. 78

RESULTS

CDQ factors from Edwards (1966) that would seem relevant to teacher acceptance of the underprivileged along with item numbers are:

Factor	3 : :	Protection of students from unnecessary restrictions. 7, 20, 36, 41, 51, 57, 61
Factor	5:	Belief in the ultimate goodness of human beings. 4, 10, 15, 41, 53, 59, 65
Factor	9:	Identification with animals and rejection of peers. 5, 7, 14, 33, 44, 51, 56
Factor	10:	Teacher concern for underprivileged. 29, 35, 41, 44, 50, 52, 61
Factor	15:	Teachers main concern with those who want to learn. 4, 27, 28, 41, 48, 58, 68
Factor	16:	Judging children on an individual basis. 10, 38, 42, 62, 66, 70, 72
Factor	18.	Objection made by self-made man to behavior science. 7, 11, 15, 26, 50, 58, 64
Factor	24:	Identification with less successful members of society. 10, 11, 12, 34, 50, 53, 59
Factor	25:	Rejection of physical intimacy. 13, 14, 22, 44, 47, 51, 71

An inspection of the factor labels of the CCM and the items loading on these factors indicated that the following factors have relevance concerning teachers' attitudes towards curriculum changes:

Factor	3,	Impunity from criticism.
Factor	4,	Endorsement of competition
Factor	5,	Moral relativism.
Factor	7,	Traditionalism.
Factor	8,	Resistance to curriculum change
Factor	9,	Educational isolationism.
Factor	10,	Activity oriented school program.
Factor	12,	Subject matter and control orientation.
Factor	13,	Preference for work related change.
Factor	14.	Authoritarianism.

_			-			Change
Factor	Pre	\mathbf{Post}	S.E. of	t	Con-	in Desired
Number	Mean	Mean	Difference	Ratio	clusion	Direction ?
3	6.917	6.367	0,161	- 3. 42	Sign	No
5	10,377	10.791	0.193	2 14	Sign.	Ver
9	10.159	9.875	0.209	_1 36	N S	Ves
10	6.705	6.712	0 155	-1.50	N.G.	ies v -
15	13.042	13 770	0.204	2 57	IN. 5.	res
16	11.007	10 898	0.204),)(), 5(Sign.	Yes
18	10 793	10.710	0.217	-0.51	N. S.	Yes
24	12 304	10, 119	0.259	-0.29	N. S.	Yes
25	7 707	12.955	0.205	3.17	Sign.	Yes
	1.107	7.489	0.245	-1.22	N. S.	Yes
46 - 51		- -				
<u>ur - 51</u>	<u>t. 0</u>	5 = 2.008	t.01 =	2.678	two-tail	ed test

 TABLE 2

 Paired Difference t-ratios for Variables Measured

 by the Cultural Differentiation Questionnaire

As estimates of factor scores for a subject his response to an item was multiplied by the validity weight for the item (squared factor loading). All the products were accumulated for items relevant for that factor. These weighted totals are the factor loading index values which give the group means in Tables 2 and 3 that were examined with t-ratios.

The following table reports the results of the t-testing (differences in paired scores) changes between pre and post performances measured by the CDQ. These variables appear to have labels closely related to the acceptance of the underprivileged. The desired direction of change is indicated in the last column of Table 2. The desired direction of change was determined after an inspection of the nature of the items loading on the factors and the size and sign of the factor loadings.

The following table reports the t-testing of changes occurring on the CCM variables which are most closely related to readiness for curriculum change. The information presented in Table 3 for the CCM is analogous to the information contained in Table 2.for the CDQ.

						Change
Factor	Pre	Post	S.E. of	t	Con-	in Desired
Number	Меап	Mean	Difference	Ratio	clusion	Direction ?
3	14.666	13.281	0.503	-2,76	Sign.	Yes
4	6.154	5,833	0.198	-1.63	N. S.	Yes
5	8. 24 2	8.408	0.222	0.75	N. S.	Yes
7	10,705	10.076	0.299	-2,10	Sign.	Yes
8	7.429	7,178	0.259	-0.969	N. S.	Yes
9	5.874	5,828	0,232	-0.201	N. S.	Yes
10	7.026	7,621	0.199	-2.981	Sign.	Yes
12	16.390	14, 766	0.392	-4.135	Sign.	Yes
13	8,819	9,758	0.230	4.073	Sign.	Yes
14	7, 438	6.487	0.223	-4.254	Sign.	Yes
df = 51	<u>t.</u> C	5 = 2.00	3 t <u>.01 =</u>	2,678	two-ta	iled test

TABLE 3 Paired Difference t-ratios for Variables Measured by the Curriculum Change Measure

The direction of changes in this self-report all occurred in the desired direction, an event unlikely to occur by chance. Statistically significant differences were found for factor variables 3, 7, 10, 12, 13, and 14. The direction of all self-report changes, except that for factor 3, "Protection of students from unnecessary restrictions," occurred in the desired direction. Statistically significant differences were found for the following variables:

- 1.) Factor 3; "Protection of students from unnecessary restrictions,"
- 2.) Factor 5; "Belief in the ultimate goodness of human beings,"
- 3.) Factor 15; "Teachers main concern with those who already want to learn,"
- 4.) Factor 24; "Identification with the less successful members of society."

The fact that 8 out of 9 differences occurred in the desired direction is, according to the Chi-square statistic, a significantly non-random event beyond the 0.05 level of confidence. The fact that 4 out of 9 differences were significant at or beyond the 0.05 level of confidence is, according to the Chi-square statistic a significantly non-random event beyond the .001 level of confidence.

CONCLUSIONS

With regard to goal number one of the workshop, which was concerned with helping teachers to become more accepting of people of other races and cultures, small gains were made during the period of the workshop. This is evidenced by the fact that 8 of the 9 relevant measures of the CDQ had post group mean shifts in the desired direction away from the pre group mean positions. This small gain in acceptance is also evidenced by the fact that 3 of the 8 desired changes were statistically significant.

With regard to goal number two of the workshop, which was concerned with helping teachers to accept the curriculum changes necessitated by open-space classrooms and integration, small gains were made during the period of the workshop. This is evidenced by the fact that all 10 of the relevant measures of the CCM* had post group mean shifts in the desired direction away from the pre group mean positions. The small gain in openness towards curriculum change is also evidenced by the fact that 6 of the 10 desired changes were statistically significant.

We then conclude that modest changes in self-reported attitudes did occur, and that these changes in self-report occurred for the most part in the desired directions as indicated by the workshop goals.

^{*}Copies of the CCM may be obtained from this author. Edwards (1966) provided a copy of the CDQ and item factor loadings as a part of his discussion.

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