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AUTHOR   Au, Kathryn Hu-pei
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ABSTRACT
        The purpose of this paper is to outline theory and
methods associated with a research strategy for identifying elements
of cultural congruence or incongruence in classroom speech events. The
hypothesis of "sociolinguistic interference" proposed by D. Hymes is
discussed and studies of language education of Hawaiians and other
minorities are reviewed from this perspective. A strategy is proposed
by which teacher behavior and classroom structure can be modified to
affect cultural congruence in classroom speech events. At the same
time, researchers and educators are encouraged to accept cultural
diversity. (Author/APM)

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THEORY AND METHOD IN ESTABLISHING

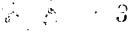THE CULTURAL CONGRUENCE OF CLASSROOM

SPEECH EVENTS

Kathryn Hu-pei Au

Kamehameha Early Education Program
Honolulu, Hawaii

June, 1980

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The purpose of this paper is to outline the theory and methods asso-
ciated with a research strategy for identifying elements of cultural
congruence or incongruence in classroom speech events. The theoretical
cornerstone of this approach is the hypothesis of "sociolinguistic inter-
ference" proposed by Hymes (1971) and others. This hypothesis states
that the academic problems experienced by many minority culture students
result because of differences between the standards for speaking and
face-to-face interaction in the home and school. Central to the hypothesis
of sociolinguistic interference is the concept of the "speech economy";
each speech economy has its own ground rules for speaking performances
consistent with its total pattern of culture (Bauman and Sherzer, 1974).
In most circumstances, where participants are part of the same speech
economy and a common understanding of interactional rules is held, there
is no practical reason to study the nature of the rules. But when members
of one culture encounter members of another, the lack of a shared set
of rules may lead to serious misunderstandings (e.g., Hall, 1959); in
these cases, analysis of the rules held by each side, and violated by
the other, becomes important. As Gumperz (1977) points out, "co-occurrence
expectations" and "contextualization expectations" are highly culture
specific and can be upset by subtle variations in speech. Participants
on both sides may feel uneasy, or even become extremely disturbed, without
being able to pinpoint the source of the problem. It seemed to Hymes
and others that these ideas were applicable to classrooms with minority
culture students, where the teacher's behaviors reflect the values and
norms of the mainstream culture, while the students' do not.

The classroom observations of Philips (1972) of Warm Springs Indians,
Dumont (1972) of Sioux and Cherokee, and Boggs (1972) of Hawaiians indicated
that the hypothesis of sociolinguistic interference was a plausible one.
The operation of the "invisible culture" (Philips, 1974), or the unspoken
rules governing interaction, could be seen in the behavior of both the
teachers and the students, each apparently acting according to a set
of standards unfamiliar to, or uncomfortable for, the other. The children
in the classrooms studied appeared to behave in a contrary manner. Sometimes
they were unresponsive, acting as if they were unwilling or unable to
answer the teacher's questions. Then too, in the Hawaiian classrooms
observed by Boggs, the children shouted out answers at times when it
seemed they should have remained silent. Given the circumstances described
by these ethnographers, the efficiency and effectiveness of teaching
must have been drastically reduced, and it would not be surprising to
find a record of poor academic learning. In the case of Hawaiian children,
in particular, this record is only too well documented. Examining stand-
ardized achievement test results for all public elementary schools in
the state of Hawaii, Klein (personal communication) found that schools
with high proportions of Hawaiian students had lower scores than those
with smaller proportions. We take this finding to be a reflection, not
of the abilities of Hawaiian children, but of the degree of mismatch
between the culture of the school and that of the children.

It would be inconsistent with the terms of the hypothesis of socio-
linguistic interference to assign blame to either teacher or students
for the unfortunate circumstances found in these classrooms. The problem
quite clearly is one which could result if each party simply acted in
the way which seemed to him to be reasonable and correct, assuming that

interaction is culturally patterned at a level below conscious awareness
or control.

Important steps have recently been taken to build upon the intellectual
foundation laid by the hypothesis of sociolinguistic interference. If
sociolinguistic interference, or the cultural incongruence of sociolinguistic
elements, can be thought to hamper the school learning of minority children,
it seems reasonable to assume that cultural congruence in classroom speech
events might have a positive effect on their academic performance. Thus,
what we will label the hypothesis of "sociolinguistic facilitation" seems
a logical extension of the earlier formulation.

The work of Erickson and Mohatt with Odawa (1977; Mohatt and Erickson,
1980), Van Ness with Athabaskans (1980), Au and Jordan (1980a) with Hawaiians,
and Cazden, Carrasco, Maldonado-Guzman, and Erickson (in press) with
Chicanos may be seen in this light. These studies are attempts to explore
the issues from a positive perspective, by looking at settings where
solutions to the problem of sociolinguistic interference apparently have
evolved. A precondition in each of these studies was that the researchers
had some understanding of the norms governing interaction in the children's
culture.

The results reported by Van Ness and Cazden et al. were based on
the study of teachers who were of the same cultural background as their
students and who were found to interact with them in culturally congruent
ways. Erickson and Mohatt, in a slightly different approach, contrasted
the culturally appropriate behavior of an Odawa teacher with that of
a white teacher. We can infer that a teacher who is of the same ethnicity
as her students is more likely to have a sense of how to create culturally
appropriate classroom events. In our opinion, however, these findings

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should not be taken as proof that minority students can only be taught
by teachers of the same ethnicity. Rather, we will argue that it is
the teacher's behavior, and not ethnicity alone, which is significant.
For example, the white teacher observed by Erickson and Mohatt gradually
adjusted his behavior over the course of the school year, so that his
teaching methods came to resemble those of the Odawa teacher. In the
case of our own work, we should mention that the talk story hypothesis
was first developed on the basis of videotaped lessons taught by white
and Asian-American teachers to Hawaiian children. Although it might
not be easy for a teacher of another ethnicity to learn the appropriate
behaviors, it is certainly possible. An important feature of this type
of research, then, is that it focuses on the identification of specific
behaviors shown by teachers who are acting in culturally congruent ways.

But isolated behaviors, considered apart form the flow of life in
the school and community, tell us little of cultural congruence or incon-
gruence in speech events. What is needed, then, is a means for locating
behaviors in the contexts which give them meaning to members of a culture.
The concept of the "participation structure" provides us with just such
a framework for thinking about co-occurrence expectations within a certain
culture (for an extensive discussion, see Shultz, Erickson, and Florio,
in press). Participation structures are rule-defined environments for
interaction which can change from moment to moment. Structures are
characterized by sets of nonverbal, as well as verbal, behaviors and
are distinguished by differences in the rules governing speaking, listening,
and turntaking. They involve a common, although generally subconscious,
understanding by those present of the manner in which interaction is to
be patterned. The rules provide participants with certain communicational

rights but also impose constraints, in the form of mutual obligations
observed by all participants (Shultz et al., in press). A classroom
lesson may be comprised of only one kind of participation structure but
more often will be made up of several. For example, Bremme (1976) showed
that "first circle" in a kindergarten-first grade classroom involved
two different participation structures, "teacher time," when the children
were obliged to orient themselves verbally (in terms of the topic addressed)
and nonverbally to the teacher, and "student time," when they could orient
to the child speaker, who addressed a topic of his own choosing.

Systematic methods of analyzing interactional patterns captured
on videotape have evolved, growing from the concept of the participation
structure. These methods are described in Erickson and Shultz (1977).
Videotaped sequences are viewed repeatedly, until it is possible to hypoth-
esize the categories of participation structures in the event. An effort
is made to assign each portion of the event to one or another of the
categories. Then the exemplars of each category are viewed in succession,
and, as necessary, refinements are made in the definitions of existing
categories, new categories are composed, and sections of the event are
re-categorized. This process is repeated until all parts of the event
can be classified.

The procedure advocated here for assessing the cultural congruence
or incongruence of a classroom speech event involves first establishing
points of convergence and divergence between participation structures
in commonly occurring classroom speech events and speech events which
are part of the minority child's own culture. But the task involves
more than finding that some rules in the two settings are quite similar,
or that some are vastly different. The second step is to discover whether

the similarity or difference in rules seems related to changes in the
children's behavior. Features of the rules would be thought significant,
and the basis for judging a classroom event to be culturally congruent
or incongruent, only if they seemed meaningful in some way to the children,
i.e., could be interpreted and assigned meaning in terms of cultural
norms or had "message value."

An extensive analogy can be drawn to linguistic methodology (see
the distinctive features analysis of participation structures in Shultz
et al., in press), but perhaps the key point is that our concern be for
emic as well as etic dimensions. It should be possible, in years to
come, to draw up a hypothetical classification system for participation
structures, or a taxonomy of linguistic, paralinguistic, and kinesic
dimensions defining and distinguishing the structures. However, this
information in itself would not reveal the meaning of a certain participa-
tion structure in a given speech event to members of any one culture.

To illustrate some of these points, we will use a piece of our own
work as a case example. This study is in the "microethnographic" vein
discussed above. The classroom speech event analyzed was a small group
reading lesson, and the non-classroom setting was talk story, a common
speech event in Hawaiian culture. The lesson was given by a Hawaiian
teacher to a group of four disadvantaged Hawaiian second graders. This
teacher's lessons were thought to exemplify the kind of direct instruction
in comprehension advocated as part of the reading curriculum developed
at the Kamehameha Early Education Program (KEEP). This program has consist-
ently been shown to be successful with this population of students (Tharp,
1980). The study was part of a line of research designed to explore
the possibility that the success of the KEEP reading program might, in

part, be due to the presence of culturally congruent sociolinguistic
features in the reading lessons.

In looking for similarities between the reading lesson and talk
story, much reliance was placed on the previous research on talk story
conducted by Boggs and Watson-Gegeo (Watson, 1975; Watson-Gegeo and Boggs,
1977). The information they provided was rich in detail and backed by
an extensive base of ethnographic data (Gallimore and Howard, 1968; Gallimore,
Boggs, and Jordan, 1974). Although Boggs and Watson-Gegeo do not use
the term participation structure, they make it clear that talk story
as a speech event is characterized by structures entailing a high proportion
of joint speaking performance by the children. Specifically, there are
structures for speaking in which children co-narrate stories, sharing
in the retelling or formulating of events in well coordinated, rhythmic
alternation. A child's competence in talk story is judged not on the
basis of how well he can narrate a story on his own, but on the basis
of how well he can cooperate with others in the group to produce a narrative.
The specific purpose of our study, then, was to determine whether the
reading lesson, like talk story, incorporated participation structures
characterized by joint speaking performance.

Participation structures involving joint performance among students
can be considered substantial departures from what appears to be the
norm in many mainstream classrooms, i.e., participation structures based
on the performance of an individual child. The common pattern involves
a two or three part sequence. The teacher asks a question, a single
student replies, and the teacher may then evaluate his response. This
pattern apparently was prevalent in the lessons analyzed by Sinclair
and Coulthard (1975) and Mehan (1979).

The lesson was about 22 minutes long (21 minutes, 52 seconds) and may be divided into three major parts: an introduction, in which personal experiences were shared and speculations made about the basal reader story to be read; a period of silent reading; and a follow-up discussion, in which details of the text were examined and then related to the children's experiences. About 4 minutes and 41 seconds were spent in silent reading and there was an 11 second interruption, leaving 17 minutes of lesson time for discussion. During discussion, there were 66 sequences or turns of speaking, and these fell into nine different categories of participation structure. The structures were differentiated on the basis of two factors, the number of child speakers (from one to all four) and their roles (whether sole speaker with the teacher, lead speaker, or commentator), as shown in Table 1. The nine structures were labelled 1) transition, 2) chorus, 3) single, 4) single/joint, 5) single/open, 6) joint, 7) joint/open, 8) open, and 9) "damaged" transition. The structures identified seemed to lie on a continuum (see Figure 1), the first three more closely resembling those of the conventional classroom recitation setting, and the others more closely resembling Hawaiian talk story, or its classroom approximation.

For the purposes of this discussion, the structures will not be described in detail (for a complete report, see Au, 1980), but will be treated in terms of the two sets implied in the continuum. In the first set, the conventional structures, the children are required either to remain silent, to interact with the teacher on a one-to-one basis, or to respond in a choral fashion, with one voice. In the second set, the talk story-like structures, the children are allowed to engage in joint performance; there are at least two child speakers, speaking in synchrony with one another and with the teacher.

Slightly more than half of the discussion part of the lesson was conducted in structures involving joint performance. Of the 66 sequences spent in discussion, 39, or 59% of them, were in talk story-like structures. These structures occupied 8 minutes and 47 seconds, or 52% of the time devoted to discussion. It is reasonable to conclude, then, that the reading lesson was like talk story in that it involved a high degree of joint performance.

At a more qualitative level, however, it was evident that joint performance in the reading lesson was not identical to joint performance in talk story. First, while Boggs and Watson-Gegeo had discovered co-narration, or the relating of story events by two speakers, to be central to joint performance in talk story, this was not the case in the reading lesson. Few instances of co-narration were found, but overlapping speech and comments on the statements of others did appear in the reading lesson with considerable frequency. Second, while in talk story there was always a lead speaker, some joint performance participation structures in the reading lesson did not require one, perhaps because some of the lead speaker's functions (as described by Watson, 1975) were assumed by the teacher. These differences serve to emphasize the complexity of the relationships between talk story and the reading lesson. While similarities were found, they did not take the form of identical events present in both.

These results strongly suggest that cultural congruence in school settings may exist in the absence of topical similarity to speech events in the children's culture. The reading lesson analyzed here had its focus for discussion a story from the children's basal reader. There is little likelihood in reading lessons that sex, the most popular talk

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story topic identified by Watson-Gegeo and Boggs (1977), will ever be discussed. A basic point, then, is that cultural congruence in classroom lessons given to minority children may be achieved at the level of partic-ipation structure, and not only at the level of content, or subject matter. In other words, when working with minority students, it may be more important to adjust how we teach, rather than what we teach.

As Weisner (1978) and others have argued, the idea of cultural con-gruence should not be taken to mean that classroom settings should be replicas of those in the home; the appropriate relationship between the two is perhaps better conceptualized as one of isomorphism, rather than identity. Given this view, a culturally congruent classroom speech event is probably a hybrid, drawing features from conventional classroom speech events and from speech events in the children's culture, as well as having features unique to itself.

By attempting to identify elements of cultural congruence or incon-gruence at the level of participation structure, we may be able to avoid the tendency to view the operation of complex interactional processes in an overly simple way. The power of the concept of the participation structure, reflected in the findings described above, is that it allows us to compare and contrast classroom and non-classroom speech events, even when they lack surface or literal similarity. Shultz et. al. (in press) speak of "lurking impressions that something was wrong as we watched videotape in an initial attempt at comparisons of eating times and story times at home and at school" (ms. p. 16). Once able to overcome this literal view of the problem, they discovered "family resemblances" between math lessons and dinner times in the lives of young Italian-American children.

In concluding we wish to emphasize two important features of this research strategy for identifying elements of cultural congruence in classroom speech events. First, because it is based on what we have labelled the hypothesis of sociolinguistic facilitation, this strategy centers on the analysis of settings where things are going right. The close study of such settings may help make evident to researchers and educators the critical features of rightness in interactional rules for a particular group of minority children. The practical outcome of this research, then, may be the discovery of ways of changing school settings to accommodate minority children's interactional and learning styles. Teachers especially successful in helping minority children acquire academic skills will lead the way for the researcher. The researcher's task will be to try to understand why these teachers enjoy such success, to bring processes which normally operate at a subconscious level to a conscious one. Viewing and discussing videotaped lessons with teacher-collaborators will often provide the researcher with new insights, and these sessions are usually informative for the teacher, as well. Farther down the road, researchers and teacher-collaborators may work together to develop means of training other teachers to use the culturally appropriate behaviors identified.

Second, a major advantage of this research strategy is that it encour-ages us as researchers and educators to accept cultural diversity. By helping us to identify elements of cultural congruence in classroom speech events, it keeps us aware that there is no one correct way to teach and learn, that mainstream norms for classroom interaction are not necessarily or inherently superior to all others. This idea is all too often forgotten, as an example of our own shortsightedness illustrates. The results of our

research with Hawaiian children indicates that they seem to learn best
when allowed to work cooperatively with one another, in reading lessons
by producing answers in joint performance, and at learning centers when
completing assignments independent of teacher supervision, by freely
seeking help from, and offering help to, other children (Au and Jordan,
1980b). We were admonished once by an educator who had worked with students
who were not Hawaiian for implying (unintentionally) that it was only
Hawaiian children who would profit from opportunities to work cooperatively.
He suggested on the basis of his own experience that most children would
probably benefit if given these opportunities. Whether that would be
the case or not, it is certainly possible that the search for elements
of cultural congruence in classroom speech events will open our eyes
to an ever wider range of pedagogical options.

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Table 1

Summary of the Key Features Distinguishing the Participation Structures

Type	Number of Child Speakers	Role of Child Speaker(s)
Transition	0	None - teacher only allowed to speak
Chorus	4	Respond in unison
Single	1	Sole speaker with teacher
Single/Joint	2	1 lead speaker, 1 commentator
Single/Open	3 - 4	1 lead speaker, 2 or 3 commentators
Joint	2	2 co-equal lead speakers
Joint/Open	3 - 4	2 co-equal lead speakers, 1 or 2 commentators
Open	4	4 co-equal speakers
Damaged Transition	1 - 4	Teacher serves as lead speaker, children as commentators only

Continuum of participation structures.

Conventional classroom structures | Talk story-like structures

| Transition | Chorus | Single | Single/ joint | Single/ open | Joint | Joint/open | Open |

Damaged transition