ABSTRACT
                Curriculum guides can have a positive effect only if
they acknowledge the intentions of teachers and the context in which
the curriculum will be taught. Those who write guidelines should be
aware of four central questions, all of which address the
communications gap between outsiders and practitioners: (1) What does
it mean to say that a written guide can guide practice? Just as a
travel guide decribes the surroundings, the new meaning and
directions for an action should be detailed; (2) How can effective
guides be written? An example of a well-intentioned but unsuccessful
curriculum guide shows the uselessness of exhortation, and reveals
the need for concerned background research; (3) How is the guide
writer understood? The terminology and inference of words and phrases
must be clear and within the context of the beliefs of the intended
audience; and (4) How can we appreciate the classroom context? An
approach called "constructive alternativism" can help outsiders learn
the substance of classroom life and can foster a language capable of
allowing communication between those inside and outside the school.
(FG)

Translating Innovative Doctrines

Into Practice: Appreciating the

Classroom Context

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Introduction

One of the most important problems for curriculum is that of communication. People outside schools constantly seek to influence what those inside do and fail. (Westbury, 1973; Walker, 1980). Why do they fail? They fail, I think, because outsiders fail to understand what teachers are trying to do. As a consequence a gap exists; what one means to say, the other does not understand. This issue is at the root of the question: "Can written guides guide practice?" The answer is yes only if the guide writer pays attention to the context in which teachers work, and to the language that teachers use in that context. It is this idea I would like to pursue in this paper.

I have divided the paper into four parts, all of which address the central question and I hope serve as a framework for this symposium. My first concern is with the question: What does it mean to guide practice? Here I will use Searle's (1969) notion of a linguistic "institution" (p. 51) to suggest what the constituitive rules of guide writing as a speech act might be. I will argue that one of the rules of the institution requires that the guide writer understand what the teacher is trying to accomplish through his/her actions. It is here that consideration must be given to the context in which these acts take place.[1] The problems encountered in practice by a particular curriculum project (Olson, 1980) are used to illustrate the consequences of a failure to appreciate what teachers are trying to accomplish in their work.

The third section of the paper raises the fundamental questions of whether what Searle (1969) "normal input and output conditions" (p. 57) obtain in most efforts to write

to write curriculum guides. One of these conditions is that
speaker and hearer both know how to speak the same language.
Clearly both likely speak the same "language", but is there
not a translation problem when proponents of innovation attempt
to communicate their ideas to teachers using terms which may
have little importance in the "systemic" structure of the teacher's
language (Churchland, 1979, p. 70). The theoretical structure of
the innovators ideas may give to terms meanings which teachers
may find difficult to understand. Given that innovators may
theorize differently than teachers about a roughly common domain
of problems, and if we accept, as I do, a holistic account of
meaning, the issue of the limits of communication arise as they
do whenever different theoretical systems attempt to account
for   similar problems. The matter of translation of innovative
ideas from one theoretical system to another will lead us
back to the pre-requisites of the process of advising itself,
and to the question which is treated in the final
section of the paper: how can we appreciate the classroom context?
It is upon such an appreciation that effective guide writing must
ultimately be based.

What does it mean to say that a written guide can guide practice?

The notion of a curriculum guide begs comparision with the
sort of guides we go to to help us understand unfamiliar territory.
The classical guide of this kind is the Baedeker's guide. How do
these guides work? Consulting my 1910 Baedeker's <u>Great Britain</u>,
I learn, for example, that "Salisbury Cathedral, a splendid
example of pure Early English, enjoyed the rare advantage of

having begun and finished within a period of forty years and is
remarkable for the uniformity, harmony and perspicuity of its
construction." These are the sorts of statements I expect to
find in a guide. The guide helps me interpret what I see
around me; it offers advice on how best to spend my time and
money. The things I find in a guide are what I expect to find
there. The guide is written according to conventions which
both the guide writer and the reader understand. Thus, in
the case of my Baedeker, the way the landscape is treated is
not unexpected; it conforms to the conventions of guide writing
of the Baedeker tradition. Thus, the the landscape, normally
perceived by most as relatively undifferentiated, is, in the
Baedeker's guide, almost insanely detailed and particular.
One looks to left and right almost every other second; objects
of note are everywhere and are to be thoroughly savoured.

The Baedeker guide can be likened to what Walker (1980)
calls : "curriculum documents ... the writings teachers and
and students use" (p. 73). He notes that such documents need
to be clear and specific so that those who "are supposed to be
instructed by the document know exactly what they are being
advised to do" (p. 73). The travel guide has to live up to the
same demands, but there is more than the matter of clarity and
specificity at stake here. The guide writers are relying on the
reader to understand the intention of the guide writing act
itself; that something special is happening. What is being
offered isn't just information, or description, but something
that will be of benefit. The guide writer offers advice. The
guide writer relies on the reader to take what is written in this

way. The particular activities of the guide writer make sense when taken as part of the larger linguistic institution of guide writing.

To pharaphrase Searle (1969), guiding teaching involves a "variety of activities, states and raw feels, ...(these) count as part of (the activity) given other conditions and against a background of certain kinds of institutions... These institutions are systems of constituitive rules. Every institutional fact is underlain by a (system of) rule(s) of the form X counts as Y in context C" (p. 52). What counts as advice?

Searle analyses the speech act of promising to show how such an act might be successfully performed. Such an analysis allows him to isolate rules which govern how the statement is to be taken. Such rules he likens to those of games in which certain preparatory and essential conditions must obtain. Thus, in the case of chess, in order to move it must be one's turn to move, and the move must be one permitted by rules governing a particular piece. Further, one is expected not to cheat, or lose on purpose. It is the _preparatory_ rules of guide writing that are of particular interest here.

Preparatory rules ·· those ... give the act point; if the act is to be understood as the kind of act it is, then people expect the actor to conform to certain prior conditions. So for example, I would not advise some one to do something they are already doing, and I must have reason to believe that the person will benefit from the future act that is being advised (Searle, p. 67).

The point of these rules is that they permit us to isolate

.those elements of the linguistic institution of guide writing (taken here as similar but not identical to advising) which give it its particular force; that is, which enable the hearer or reader to understand what is meant. So, in the case of advice., I would not expect to go to a guide and find that I am advised to do what I am already doing. Advice is something new. How difficult I might find the advice to understand depends on the novelty of the proposal. I would also take it that what I am being urged to do is well founded. The person who advises me presumably has reason to believe that it will be in my interest to do what is being advised. We can use the preparatory rules of advice giving to look at a particularily important piece of advice in the case of the guides to the English Schools Council Integrated Science Project (SCISP).

> There will be a partnership between teacher and pupil in
> learning... Teachers are often worried about the danger
> of imposing their attitudes on pupils. It is suggested
> that class discussion be based on the materials provided
> ...and that they should not become the basis of disagree-
> ment between pupils and the teacher. Direction will some-
> need to be given and the teacher selects the material to
> be discussed Handbook, p. 59, 60).

How effective is this as a piece of advice? Clearly, the writers had reason to think that teachers would not normallly think of their work as a partnership. The advice is thus well founded in this respect. But what about the other preparatory rule; the writer has some reason to believe that the teacher will benefit from the advice? It is here that one begins to worry about the adequacy of the act. One of the rules which controls the use of the

advising speech act is that the guide writer indeed has reason to offer such advice. What might count as a good reason? What do the guide writers know about how teachers conceive of partner-ships in the classroom. What do they know of how teachers cope with disagreement. The act, if it is to have the force of advice, supposes that the guide writer knows something about how teachers construe what might be called "influence" in the classroom, (Olson, 1981). For the advice to be advice at all, we have to suppose that the guide writer knows something about the problems teachers have in exercising influence in the classroom.

Unless the guide writer has some idea about what the teacher is already doing, and about what the teacher intends to do, how can the writer give advice? This seems a trivial point, but it isn't. The rule requires, I would argue, that the guide writer find out about the <u>intentions</u> of the teacher. The guide writer isn't just talking off the top of his/her head; he/she knows something about the context in which the advic is o taken. Returning to the from the curriculum project, it became clear from talking to teachers about it that the advice offered did not speak to the problems the teachers actually faced in trying to operate the project. Ilene Harris (1981) probes in greater detail the nature of guide writing as a kind of speech act and expands upon the forms of written communication that guide writers can use to communicate their advice most effectively.

How can effective guides be written?

The problems teachers had in using the curriculum project can be traced to a failure of the guide writers to take seriously one

of the rules of advice giving: they did not find out about the life
of the people they presumed to advise. Instead of advising, they
exhorted, the advocated, they enjoined; quite different acts. They
failed to do the research that advice giving requires. The guide
writer has to do research. An appropriate agenda for research
has been suggested by Fenstermacher (1978) using an intentionalist
account of action. He suggests that the researcher of teaching,
find out more about what teachers intend, by their classroom
actions: what are teachers trying to accomplish by their acts?
How do the belief of teachers come to be formed? What is the
influence of the institution on the formation of beliefs?
These are useful preliminaries for the guide writer to under-
take or study. As Fenstermacher notes: "The researcher
of teaching cannot do research wi   me way participating
in the education of teachers,   r   the teacher ed   on
transform beliefs without participating in the study of teaching"
(p. 182). Guide writing calls upon the writer to be both researcher
and educator; and in both roles, he/she will have to pay attention
to the intentions of teachers. Why is this so?

For purposes of disciplinary knowledge, we may well invoke
causes outside the teacher to account for practice, but if we
wish to guide the teacher we will have to study practice from
the point of view of the teacher. If we didn't, we would have
no reason to think that our advice was potentially helpful,
because we would not know what the teacher was trying to accomplish.
If we ignore the intentions of the teacher, we have no grounds for
offering advice; what we offer is only gratuitous and random. We
could of course, simply tell the teacher that some action A is

good for him/her because research says it is so. If we did
this we would not be guiding, but doing something else like
mandating; a different sort of act entirely. And in fact many
documents which we might think of as guides have the force of
mandates. A guide can be written, but it can only be written
effectively if the author knows something about the practices of
those he/she wishes to influence. I will not reherse further the
arguments of the intentionalist account of teacher behaviour and
its value in curriculum theory, but refer the reader to that
extensive literature (for example: Harré and Secord, 1972; Argyris
and Schön, 1977; Reid, 1979; Connelly and Ben-Peretz, 1980).

The writers of the guide to the curriculum project I studied
simply did not pay attention to the pedagogical implications
of what they were proposing. Had they, they might have hesitated
to advise what they did. The guide writers were not interested
in pedagogy, ironically; instead they took it as their task to
instruct teachers in the nature of Gagné's (1965) hierarchy of
cognitive operations, and show how the activities selected in the
texts functioned in the terms used by Gagné. Advice, useful
to teachers, was mostly absent. Exhortation to adopt the new
practices was more common.

It is not surprising that the teachers did not use the guides;
when they went for guidance, most often got a lecture. This put
teachers in an untenable position. The students who took the
course wrote externally set examinations, and the teachers were
expected to prepare them to do well. But how to do well when
it was difficult to know how to operate the project in the absence
of guidance? The teachers, I found, rewrote the lectures of the

handbook into a guide they could use. Their "guide" was a translation of the theoretical language of the handbook into a familiar language of practice. In this way they "found" information which could be used to operate the project in the minimal way they did. They extracted and reshaped elements of the project plan to suit how they normally operated. Normal operation allowed them to get on with the job of preparing students for external examinations. They created a guide by giving themselves advice which made sense in their context.

An example of how teachers constructed their own guide out of the handbooks can be seen in their fabrication of a syllabus to use in preparing students for examinations. It was here that teachers sought advice from the handbook. What was the syllabus of content they were responsible for? The answer from the project team was that the project did not have a syllabus in the teachers' sense of that word; only a limited number of cognitive skills which were to be nurtured by the teacher; and to be locked in the heads of their students, and not to be found in the notebooks to be reviewed and learned for the examination.

Where the handbook writers went wrong was in not appreciating why a syllabus was important to teachers; how such an institution functioned in the classroom. Teachers pointed to the syllabus as an authoritative text to be used in disputes with pupils and outsiders on whether this or that should be taught. The syllabus they said, provided a measure of ground covered and formed a contract between teacher, pupils and examining board. SCISP had

no syllabus, but there was a list of concepts and generalizations given to illustrate one of the three unifying themes, 'building blocks'. The teachers construed this list as a 'syllabus' and proceeded to translate it into the basis of a 'syllabus' system.

One of the teachers explained how the 'syllabus' system worked:

Quite frankly we gave them the list of concepts and patterns and we said learn this and this; this is what this means. Course finished! And this is where we got our grades from. We emphasized the main concepts...As far as I would tell there was no problem if you've got duplicated sheets of all the concepts. They had the list of concepts and I said you've got to know every one of them...you make sure you understand those! (Interview BJ, 10 February 1978.)

To tell teachers that there was no syllabus was like an architect saying to a builder that there are no plans for the building, but perhaps a lecture on prestressed concrete might be of interest. Without an understanding of the pedagogical theories of teachers, in which the syllabus was an important term, the handbook writers, in their efforts to guide, failed to provide the kind of advice that would have been helpful in the circumstances. Digby Anderson (1981) treats this problem from the other side of the coin by looking at texts which teachers think are "practical", but in fact are of limited influence unless adjusted to work in the classroom.

It is worth at this point, to review where the argument has led. Guide writing is a type of speech act whose force is given by a number of constituitive rules. One of those rules, what Searle (1969) calls a preparatory rule - a rule that gives point to the act - is that the advice-giver has some reason to think

that the person will benefit from the advice. This rule, it was suggested, leads us to the idea that the advice giver needs to know something about what the person is trying to accomplish Research by the advice-giver into the life of the advisee was seen as a precondition of effective action. A particular appro to research was suggested as being well related to the demands the institution of advice giving. The fate of a particular curriculum project was seen to be due to the failure of the planners to consider how their plans would affect the lives of people who would implement them, and consequently due to the failure to give effective advice. In fact, little in the way of advice as we understand it here was given. The project document can be seen to have other kinds of force such as: exhortation; invocation; and co-option.

How is the Guide Writer to be Understood?

Guide writers have an obligation to their readers beyond familiarizing themselves with the intentions of the people they hope to guide; beyond conceiving of the practice of teachers, they have to be able to give advice in a way that others can understand it. In everyday language, there may not be a problem about advising. Advice about how to keep healthy, about how to tend one's garden may not be difficult to communicate; however, that may not be the case in communicating innovative ideas about teaching. Much of such advice is given on the basis of prescrip drawn from research and communicated in a language of the researc

field itself. This was the case in the project we have alread
looked at. Teachers were guided in the use of the text materi
in a language derived from a particular brand of cognitive psy
Thus, for example, students were mean   "problem
solving" and "pattern finding"; th   uite precise
technical meanings in the theoretica. ...guage of the planners
The teachers did not understand these words that way. When
asked they could give no more than their everyday meanings.
Pattern finding was seeing patterns in things, like patterns ir
painting; problem solving was solving problems, like starting
a stalled car. What the project planners meant by these terms
was not communicated; the teachers were not able to translate
them into classroom relevant terms. Thus the guide writer is
faced with a problem of communicating his meanings to others,
and it is to this central problem that we now turn in the next
part of this paper.

The problem of being understood was brought home to me in
one of the interviews with a teacher involved in the curriculum
project we have discussed here. When asked about the difficult
involved in operating the project, the teacher said that it had
been difficult to revise. For the next ten minutes I quizzed h
on the assumption that he meant that he had had trouble decidin
what to change in the course when he again taught it. This isn
at all what the teacher meant. He meant that it was difficult i
review with the students the material they should know for the
examination; a major criticism of the project, as it turned out.
What the teacher had done, in his brief complaint, is mean more

than he said. He expected me to appreciate the <u>implications</u>
(the reverberations within his system of beliefs about teaching)
of saying that revision was difficult. For the sake of brevity,
and of not stating the obvious, he had telescoped his complaint,
a fundamental one, into a brief sentence loaded with freight.
I had to scramble to find out what the teacher meant by what
he had said. I had to find out what the term "revise" meant
in his theoretical system. What he meant was "Look, I don't
want to complain, but in this project it is difficult to
accomplish one of the most important tasks I am asked to do."
If I hadn't been able to see that we were at cross purposes we
would have never talked about a central issue for that teacher.
His idea of course revision and mine were different. These term
have different means in our respective conceptual systems. Both
were what Churchland (1979) calls "systemically" important. Gui
writers run similar risks in talking to teachers and in this
respect, as the research proceeded, it became clear that the
project planner, has not communicated very well with the
teachers either

This could be seen most clearly, in the way the planners
talked about problem solving, a key term in the theory of th
project. Problem solving was taken to be an important intellec-
tual skill to be developed through discussion, or, generally thre
what might be called "doing problem solving" (DPS). DPS was
meant to promote a skill which involved the use of facts and
values as a basis for either testing hypotheses or making practic
decisions. The conceptual basis of the skill was derived from
Gagné's (1965 Conditions of Learning - itself not a rich

source of pedagogy. All the handbooks said about problem solvi
was that it required partnership between pupil and teacher.
What did teachers make of this mysterious partnership that was
supposed to be involved in DPS? They read DPS in terms familia
to them; that is, in terms of their influence over the directio
point and manner of classroom acti ty. Teacher theories of
influence in the classroom, as c ed out from an analysis
of the clinical interviews used the study, was an important
source of terms in their language of practice. Teachers talked
about: getting the facts in; hammering ideas; basic stuff; beh
a fount of wisdom; expert; predictable; productive; precision;
putting right; arbiter. Being a partner with their students
was not a term in that language. Instead, when they were expecte
to do problem solving, they engaged in versions of it which
made sense in their terms. These versions did not conform to
what the planners had meant by "partnership".

Rather than using a language whose terms are developed from
a body of mental content is where used a language whose terms
very given regarding by their theories of classroom influence,
that is, theories bout authority and the nature of their
efficacy (Olson, 1981). In terms of this language, they learning
and the partnership it involved as an abdication of their author
and a failure to teach. The language they used to describe how
they saw the low influence role captures the sense of their
withdrawl and illustrates, by default, their theories of
influence: uninvolved; hovering; ticking off; technician;
observer; referee; in the background. Doing problem solving

was translated as losing influence.

Many of the investigations of the project involved DPS. What were the teachers to do? They translated these activities in terms of their theories of influence. DPS became, variously: reviewing the facts of the section just completed; wasting time; recess; a pretense. One teacher saw what to him looked like an end of section review; so the students were told   over the questions by going back into the text. The questions were meant to stimulate debate and the going back was absurd, but at least the activity made use of the material and the teacher remained in charge. One teacher treated DPS as a bull session; it wasn't serious work, so nothing was lost if the lesson didn't go well. Another simply let the students talk and then imposed the "correct" view.

Why did the teachers do these things? They did them to protect their influence, which they saw as being eroded by DPS. DPS didn't make any sense in classroom terms. The teachers did not understand what DPS meant in terms of authority and efficacy; the planners had failed to indicate what DPS meant in such terms and thus to guide

What is the significance for future writers of guides of these cases? The significance is that guide writers must not only appreciate the intentions of the teachers, they need to understand the language used to talk about those intentions. The teachers were concerned to use their influence to prepare students for examinations. The way they talked about their work reflected these concerns and the theories teachers espoused were related to them. The writers of the guides to the project

recommended things which these teachers were bound to have
difficulty understanding and, to the extent that they did
understand, reject. The guide was written in one language;
teachers spoke another.

Clearly, the guide writer must be concerned about how
the terms of one language are going to be translated in another.
Is it up to the teachers to translate guide language into their
language? I think not; surely the onus is on the guide writer?
It is he/she who wants to communicate

Take the case of DPS; at times this involved classroom
discussion which is constituted by a number of rules. The
planners showed they were dimly aware of these rules when they
said for an activity to count as a discussion certain relation-
ships between participants must prevail; a partnership is required.
Now this particular kind of speech institution was not familiar
to these teachers. They did not know how this rule might operate
in the classroom. They did know that allowing pupils to talk
freely in class undermined their influence Teachers did not
understand that "not dominating the class" could count as a form
of influence. It was here that they could have been offered
some advice about how it might be that influence and discussion
were compatible, and that discussion did not involve the abdication
of influence. What the guide writers did not do was translate
discussion in a way that teachers could understand what was
meant in their own terms   To make this translation the guide
writer would have to know something about the nature of the
theories about teaching that teachers have and how classroom

influence figures in those theories.

As Churchland (1979) suggests, "Any penetrating appreciation of another person's understanding must involve an appreciation of which the sentences he accepts are explanatorily and epistemologically most crucial in his particular view of reality" (p. 70). I would argue that guide writers need to understand how teachers construe their influence in the classroom if they are going to make effective translations of their ideas into a language that teachers can understand

Churchland, in his discussion of theoretical and non theoretical concepts, argues that this is a false distinction: "If viewed warily, the network of principles and assumptions constituitive of our common-sense conceptual framework can be seen to be as speculative and as artificial as any overtly theoretical system...In short it appears that all knowledge...is theoretical; that there is no such thing as non theoretical understanding". (p. 2)

The import of Churchland's remarks for us here is that we do not distinguish between the theories teachers have about their practice and theories about practice based on the disciplines. Both share the same properties and for both attempts to convert the terms of one into the terms of the other takes us into problems of translation as much as in any other case of translating from one conceptual domain into another. There is reason to think that the language in which most innovative ideas is couched, at least those institutionalized as funded projects, is in need of translation into practitioner language if the

innovative ideas are to be understood.

Churchland offers advice on how this might be accomplished. He says:

"An individual's understanding of a term can be decisively specified only against the background provided by the entire interlocking network of (systemically more important) sentences he accepts. Therefore if we wish to speak of (sameness of understanding) across idiolects, we must again think in terms of corresponding modes in sufficiently parallel networks. In this way we are led to a holistic conception of both meaning and understanding" (p. 61).

This means that the person who wishes to communicate ideas to teachers is going to have to understand the network of belief that teachers hold and what particular terms mean within such networks. This is commonly known as the "Principle of Charity", and it seems to be a fundamental consideration for guide writing as an act of translation. As Searle (1969) points out, one of the preconditions of an illocutionary act is that the participants understand each other. The burden on the innovator is clear if he/she wishes to guide practitioners; the guides have to be written in a language teachers understand. Those of the project we have looked at here were not so written. Churchland, in his discussion of translation, suggests that the translator has to understand the important uses of terms in other people's languages, and to do that their whole system of beliefs must be understood. He is talking about an outsider translating the insiders' language, and that is what I am proposing here. If the

guide writer wants to communicate his ideas to teachers, he has to find some way of translating current practices into new formulations in a way that preserves the meaning of the words used by teachers to describe the old practices. We don't need new languages, we need new formulations of the old. The guide writer must be a speaker of the practical languages of teachers and be able to express the new intentions in such a way that new meanings are possible, but with a maximum of shared meaning retained. What Churchland urges, and I think that this is important for guiding teaching, is that in the translation process some statements are more important than others. The guide writer has to know what are the important sentences in the teachers' theories, and work to preserve the meaning of these in the translation. To know what those sentences are he has to know the rationale of the overall system of beliefs.

We thus come back to where our analysis of advising as a speech act lead us. The rule that the advice be well founded leads the author of advice to find out about the lives of the people he she plans to advise. Similarly the rule that the participants must speak the same language leads us to the same place. By adopting a holistic conception of meaning, we are lead to the belief structure of the teacher and, accordingly, to particular kinds of preliminary work before guide writing begins. That work, as a number of people have indicated (see for example: Olson, 1977; Reid, 1978; Fenstermacher, 1978; Hills, 1981), involves finding out more about how teachers talk about the work they do and what they are trying to accomplish by their actions. Research methods to accomplish

this need to be developed.

Understanding the Classroom Context: The Possibilities of Constructive Alternativism

Two approaches to understanding of school realities can be identified based on their approach to teachers: one assumes that teacher behaviour is controlled by institutional cons and blandishments, or by more immediate classroom contextual factors. This approach seeks explanation for action by correlating measures of teacher behaviour. The aim of inquiry is to provide the means to shape the behaviour of the teacher to further some external purpose. The purposes of the teacher are ignored. On the other hand, the intentions of the teacher can be probed on the assumption that no one is the victim of his or her circumstances or biography. On this view, what teachers make of their situation – how they construe the alternatives they face – is taken to be important in understanding their actions. The aim of inquiry is to understand the reasons people have for acting as they do. Kelly (1955) called such approach to understanding human action "constructive alternativism". It is a phrase which succinctly describes the theoretical and methodological orientation of the approach to school realities I am suggesting here. The approach can help us learn about the classroom system from those who are involved in it (the substance of classroom life and the language used to describe it); and, second, it can help people outside the school communicate with those inside in planning the curriculum (a source of language for improving communication between those concerned about change).

These possibilities stem from the use of a disciplined method of eliciting and exploring the meaning of constructs teachers use to describe the practical dilemmas (alternatives) they face. Such a process can provide a better understanding of how teachers theorize about the work they do and these theories need to be researched as part of planning to write curriculum guides, amongst other things. The constructs used by teachers with reference to a universe of situations of mutual interest to them and others become elements of a "language" which both teachers and curricularists can begin to probe. In the study we have been discussing, particular deficiencies of communication were identified by the teachers. These, as we have seen, stemmed from a lack of "contextual sensitivity" (Anderson, 1979) exhibited by the project curriculum guides. The use of a constructive framework suggested here provides an example of how insiders and outsiders might approach problems of curriculum change together without assuming that the role of the teachers is to conform to external dictates, or the role of the planners to provide and insist upon general programmes. (For an extended discussion of the "constructive" approach to understanding the classroom from the teachers' point of view see Olson, 1980)

Notes

1. I wish to express my appreciation to my philosophical
    colleague George Hills for pointing me to some writers,
    in his field who have helped me begin to get a grip on
    problems of communication in curriculum, and for the
    discussions we have had in bridging the spaces between
    his field and mine.

    The approach to the curriculum problem, at this point,
    I owe specifically to the work of Ilene Harris, whose
    penetrating analysis of communication stimulated my in-
    terest in linguistic institutions (Harris, 1979).

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