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A FUNCTIONAL ANALYSIS OF CONNECTIVES IN ENGLISH
COMPOSITION: IMPLICATIONS FOR THE TEACHING
OF ENGLISH AS A SECOND LANGUAGE

THESIS

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Errors by ESL writers involving connectives show a need for changes in the current teaching approach of composition teachers, an approach which reflects a lack of attention to the discourse function of connectives on the part of linguists and rhetoricians. More recent studies in text and functional grammars reveal that factors other than syntax control conjunctive use. These include pragmatic differences between spoken and written language, the role of semantics in defining dependency, and discourse functions of connectives. Conjunction is seen as part of a continuum of semantic dependency that is manifested as degrees of syntactic complexity. Teaching methods should take into account semantic and pragmatic factors and encourage learning of connectives through activities such as revision of student writing for content as well as mechanics.

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CHAPTER I

INTRODUCTION

Teachers of composition to students of English as a second language (ESL) have noticed that their students have problems knowing how to use connectives properly to tie their ideas together. Students often write papers which, although understandable, have a definite nonnative flavor. This paper asserts that teaching methods for teaching connectives in writing have been inadequate because these methods are based on a linguistic tradition which has not adequately recognized the effects that literacy has on language, nor recognized the primacy of pragmatics and semantics in determining syntactic realizations. In Chapter One, we examine some of the errors made by nonnative speakers and give a general overview of possible reasons for these errors. Chapter Two briefly reviews some of the linguistic descriptions of connective elements which have characterized the literature. Chapter Three will include an examination of the contrasts of orality and literacy and the syntactic effects these have on language. It will also include a discussion of how an analysis of semantic dependency can contribute to the traditional analysis of syntactic dependency in describing connective relationships. We will then see how semantic dependency operates pragmatically within discourse in maintaining topic and

thematic continuity. In Chapter Four, we will examine the syntactic consequences of semantic dependency in terms of a continuum of coordination/subordination. Within this continuum we will find those elements of connection which are realized as lexical items. These items will be described in greater depth, examining the pragmatic, semantic, and syntactic constraints on their use in discourse. These lexical devices--coordinating conjunctions, subordinating conjunctions, conjunctive adverbs, and formulaic transitions expressions--are of particular interest because errors by ESL students which involve these seem to signal a general lack of knowledge of the syntactically-complex system of written English. In general, we will refer to these terms as 'connectives' to avoid confusion with other terminology.

Chapter Five includes an evaluation of methods used to teach connectives in a representative number of ESL composition textbooks and suggestions for possible ESL classroom activities for teaching connective relations. It is not within the scope of this study to describe the entire system of coordination/subordination, nor is it within its scope to give easy solutions to the complex problem of teaching connectives to ESL writers. Rather, this is an attempt to identify the problem for what it is and suggest a possible framework of linguistic theory within which the ESL teacher should work in order to teach connectives more effectively.

In an earlier study of essays written by composition students in the Intensive English Language Institute of North Texas

State University, we analyzed student errors in their usage of connectives. This study revealed what seemed to be three types of connective errors made by these students. Labeled as underuse, misuse, and overuse, these error types seemed to indicate the need for changes in the teaching methods for introducing connectives (Leavelle 1982).

Error judgments were made at that time on the basis of the researcher's native intuition rather than on the basis of a descriptive grammar of connectors. The term 'underuse' was used to refer to instances where a sequence of sentences or ideas seem to lack a clear connection which could have been provided, or where the relationship of the sentences or ideas appeared to be of a more complex logical nature, as in the examples below:

- (1) (The wife) learning them (children) every good thing because this is her responsibility. She know how to treat her husband.
- (2) So he believed that only by unifying (the country would they be powerful). So he watched his time to fight.

Misuse was the label given to those connectives which seem to express the wrong relationship for the ideas being connected.

- (3) But I didn't forget to send letters to my parents and on the other hand, they replied.
- (4) Other reason for moving back is that my mother was born and growed up in this city. However, I would like to come back to this city. I hope to live here.

The third error type was called overuse and particularly marked the tendency of some writers to use overly many connectives within a short piece of discourse.

- (5) Furthermore, by travelling, I'll be able to learn more languages, beside my English and my native language. Moreover, it will be very exciting to be able to travel after I have studied about that particular country. Therefore, I will be more knowledgeable (sic) about that country.

Most nonnative errors can be traced to some extent to either interference from the native language, incomplete knowledge of the target language, or faulty teaching methods. All three reasons can be given for errors in connective use by ESL writers, but pedagogical solutions are not as simple as merely adding a lesson on connectives or drawing parallels to the native construction from English.

One main reason underlying the difficulty of teaching proper usage of connectives is that connectives are in an academic 'no man's land' between the traditional parameters of linguistic study and rhetoric. Linguists have throughout this century prided themselves on studying 'natural language,' and since Saussure at least, have explicitly held that spoken language is their primary data, written language being merely 'derivative.' Examination of linguistic examples reveals that the data of most linguistic study have consisted of 'constructed' examples that more closely resemble written language than spoken

discourse, but which are not naturally occurring examples of contextualized writing. More importantly, most linguists until very recently have assumed that the sentence boundary is the proper extent of linguistic description. Therefore, 'sentences' are presented and described in isolation, outside of any discourse context. Any units above this level have fallen to the rhetoricians to describe.

Rhetoricians, on the other hand, have concerned themselves with themes and their development, paragraph structure, and so on, but have been wary of describing the structural elements which encode a line of argument or provide transition between ideas. Thus, they tend to ignore connectives.

Recent work in text grammars has revealed that there are great differences between the spoken and written forms of English, many of which are reflected in the larger variety of lexical choices made by writers, particularly with respect to connectives. That subordination is used more by writers than speakers has also been noted. This tendency of literacy to encourage subordination and lexical variety can be noted when contrasting literate and non or preliterate languages. Languages with literate traditions tend to use more subordination and explicit ways of expressing logical connections than languages with a primarily oral tradition. Some preliterate societies reportedly speak languages that simply do not have subordination, for example, the so-called 'chaining' languages of New Guinea (Givon 1979:298).

Thus, students whose native languages are primarily oral rather than literate will not be able to make the transition easily to the complex sentence structures and subtly different nuances in meaning of the variety of connectives in written English. Their writing often reflects this in that they tend either to use too little explicit connection, or they use inappropriate connectives for the context in which they are writing.

Another source of trouble is that written language must resort to other ways of reflecting information encoded in the paralinguistic cues of speech such as accent, pause, intonation, etc., which are unavailable in writing. For instance, the use of punctuation and sentence initial position can bring emphasis to a connective. Transition elements and conjunctive adverbs often are used to emphasize a semantic relationship as being particularly important in a stretch of discourse, while some form of subordination can usually be used to express the same connection without the emphasis. Unfortunately, subordination is a much more difficult strategy to learn than is the addition of an introductory element such as a conjunctive adverb. Students will often choose to use a conjunctive adverb or transition expression rather than the semantically corresponding subordinate structure. Therefore, students who understand the logical relations being expressed may still commit errors of overuse by underusing subordination.

Because linguists have only recently begun to talk about the nature of relations beyond the sentence, teaching methods

in applied areas such as ESL have suffered from a lack of theoretical basis in this area. Most textbooks attempt to address the issues involved in connection but few have been able to see connectives as part of a total system of cohesion which must be presented in a balanced fashion. Students will be better writers when they understand not only the placement of connectives and semantic relations which various connectives mark, but also the pragmatic constraints on connectives which control their overall use and how these relate to the use of coordination versus subordination strategies. Teaching methods need to reflect a better understanding of the complexity of interclausal cohesion.

CHAPTER BIBLIOGRAPHY

- Givon, Talmy. 1979. On understanding grammar. Perspectives in neurolinguistics and psycholinguistics, ed. by Harry A. Whitaker. New York: Academic.
- Leavelle, Cynthia. 1982. Pedagogical implications of conjunctive errors among nonnative speakers of English. Unpublished manuscript of paper presented to the annual meeting of the Linguistic Association of the Southwest.

CHAPTER II

REVIEW

The field of linguistics has experienced some notable changes in the last century. The study of languages other than Indo-European in the early twentieth century caused a general rejection of the prescriptive Latin grammar tradition which had dominated the field. Within the Saussurean tradition analysis of written texts that had characterized nineteenth century linguistics was deemphasized and greater attention was paid to the spoken language. This period saw a rapid increase in the study of nonliterate 'exotic' languages, such as those of native North America. Emphasis was placed on description rather than on prescription. In 1957, Noam Chomsky sparked another theoretical change with his book Syntactic Structures. His theory included the idea that a description of a language's grammar could be made which would generate all and only the grammatical sentences in a language. Even though his rule-based approach to language has proven inadequate to describe structures beyond the sentence, his belief that syntax was central and that semantics and pragmatics followed from it has dominated the thinking of many linguists for the last twenty-five years.

The reluctance of grammarians to go beyond the sentence in description is reflected in many of the grammars written in this

century (see for instance Krapp 1925, Jespersen 1933, Whitehall 1951, Francis 1958, Hockett 1958, Hill 1958, Zandervoort 1965). Francis states that in recognizing the sequence sentence, he was going outside the outer boundary of grammar into the realm belonging to literary critics and rhetoricians. 'The grammar of "continuous discourse" remains to be worked out ' (Francis 1958:409).

Because the early linguists were primarily concerned with relationships within the sentence, the issue of how to describe what were commonly called 'conjunctions' was a real problem in the early grammars. Fries described them as words which express the relationships of clauses. They were labeled as function words, that is 'words that have little or no meaning apart from the grammatical idea being expressed' (Fries 1940:109-110). This 'grammatical idea' was generally thought to be a type of sequential relationship between two sentences. Fries' overall analysis was agreed with and echoed in later grammars (Whitehall 1951, Hockett 1958, and Hill 1958).

In 1952, Fries points out another difficulty with the description of conjunctions: defining what a conjunction is and which words are conjunctions. He notes that even in the American College Dictionary, yet, defined as 'nevertheless', is labeled as a conjunction, while nevertheless, defined as 'however', is labeled as an adverb, and however, defined as 'nevertheless' or 'yet' is labeled as a conjunction (Fries 1952:250).

This lack of agreement in labeling has resulted in the large number of different labels used to name the conjunctions. Whitehall, for example, describes two kinds of conjunctions, coordinating and subordinating. He also distinguishes a class of conjunctive adverbs which operate like other conjunctions but differ in that they carry stress in speech, can introduce paragraphs and sentences which are not in association, can appear anywhere in a sentence and are preceded by a semicolon in initial sentence position (Whitehall 1951:70).

Hill takes the stance that because of the differences of positioning, those elements labeled by Whitehall as conjunctive adverbs should be called adverbs. His reasoning is that structure is more important than function. Since conjunctive adverbs have the attributes of adverbs structurally but function as conjunctions, he prefers not to call them conjunctions. Using structuralist arguments, Hill narrows the field of conjunctions to and, but, or, as, if, because, till, until, although, and unless (Hill 1958:402).

In attempting to describe the function of the elements which connect sentences, Francis labeled a group of terms as sentence modifiers or sequence signals. This includes adverbs (which could modify sentences or elements shorter than a sentence) such as accordingly, before, likewise, and also; conjunctive adverbs such as consequently, furthermore, and moreover; and

prepositional phrases such as on the other hand and in contrast (Francis 1958:415). Thus, if one chooses to view connection structurally, as does Hill, the list would be very small; if one chooses to view connection functionally, as does Francis, the list could become much longer.

In 1964, Chatman discusses this problem again, and is in agreement with Whitehall about the basic divisions of coordinating and subordinating conjunctions and conjunctive adverbs. The members of his categories also match with Whitehall's, although he, like Hill, feels that the conjunctive adverbs are more 'adverbial' than 'conjunctive' and would better be described as clause adverbs. However, Chatman further subdivides the coordinating conjunctions into what he calls 'part conjunctions' and 'clause conjunctions'. This grouping basically represents those conjunctions which either coordinate structures shorter than a clause, or coordinate clauses. Whether a coordinating conjunction is part or clause depends on the context in which it is found. For example, and is a part conjunction in the structure: 'I ran and hid ', but it is a clause conjunction in the structure: 'I'll run and you'll hide.' (Chatman 1964:320). It will be seen that this distinction between these two types of conjunctions becomes very important in later definitions of conjunction.

Bolinger points out the distinctive characteristic of conjunctive adverbs which separates them from other adverbs. He states that they modify the sentences they are part of just as do other sentence adverbs, but they also 'throw a line' to the

preceding sentence, an attribute that sentence adverbs do not have (Bolinger 1965:289). For example, in the following sentence, the conjunctive adverb however implies something about a preceding sentence while in the next sentence, the sentence adverb generally implies only the presence of the following sentence.

(6) However, we have nothing to show for our time.

(7) Generally, we have nothing to show for our time.

In his important work, Studies in English Adverbial Usage, Greenbaum (1969) attempts to describe adverbs. In dividing adverbs into three classes labeled 'adjuncts', 'disjuncts', and 'conjuncts', he addresses the issue of how 'adverbial' the conjunctive adverbs really are (Greenbaum 1969). The class of adverbs labeled 'conjuncts' is defined in a later work which Greenbaum co-authored with Quirk. Adverbs in this class are not integrated into a sentence structure and serve a connective function. These indicate the connection between what is being said and what has been said before (Quirk and Greenbaum 1973: 126). Again we see that viewed structurally, conjunctive adverbs appear to be like any other adverb. It is this connective function which makes them conjunctive. While this class labeled 'conjunct' includes all the conjunctive adverbs, it also includes by definition any adverb structure which has this connective function. Disjuncts, like conjuncts, are not integrated into the clause they modify, but stand apart from it. They do not have the connective function that conjuncts have. Adjuncts are

part of the clause. Both disjuncts and adjuncts express an evaluation of the content of the clause which they modify. This description helped to draw a line between what was and was not a conjunctive adverb; however, it opened the door to other elements which were not already included in the three established categories of conjunction, but which shared this quality of reaching out into the surrounding context to establish connections. These include prepositional phrases, enumerators, and other elements which have been labeled collectively as transition expressions.

During this same time period, the publication of Chomsky's Syntactic Structures in 1957 was causing a shift in the emphasis of mainstream linguistics. One of Chomsky's more influential claims was that semantic information is not required to analyze the grammar of a sentence, but that syntax and semantics are autonomous. The emphasis on syntax as something apart from semantics stifled any common sense desire to examine structure in light of functions within the system of communication. Because conjunction involves the relationships between ideas at the semantic level and in a discourse context, very little was said about the semantics of conjunction in the literature. Collections of papers on transformational grammar such as Culicover 1977 do not include discussions of relationships beyond the sentence.

Modern rhetoricians recognized the lack of useful input from linguists regarding units longer than a sentence. Winterowd

states that transformational grammar has shed little light up to now on sentence coordination, due to its reluctance to cross the sentence boundary (Winterowd 1970:828). Labov has commented on the help that linguistics might have been to writers had it not been so concerned with phonology and syntax, and so reluctant to explore the stylistic variations of language for fear that the techniques of linguistics were inadequate to deal with these (Labov 1972:70).

As more linguists recognized the limitations of the TG approach, attempts were made to include semantics in a formal description. This precipitated the birth of generative semantics which used formal logic (predicate, modal, and intensional) to try to explain and describe the semantics of language (Van Dijk 1981:3). Proponents of such approaches base their ideas on the assumption that language, like mathematics, is totally logical and can be described formally (Heidrich 1975:188). They believe that logical relationships can be described in terms of systems of deduction and induction. Thus, connectives like hence and therefore imply the presence of a deductive syllogism, and signal the reader that the writer is using persuasion to bring about changes of belief in the reader (Isard 1975:295).

From 1970 on, study in the fields of sociolinguistics and pragmatics eroded the belief in the viability of the Chomskyan homogeneous 'ideal' speech community (Van Dijk 1977a:3). Work with speech communities exposed the complexity of the issues of

language use, and, in the process, exposed the inability of formal syntactic approaches to describe language fully. There were some last minute attempts to try to maintain the formal model with Sadock's hypersentences and Labov's variable rules, but to most objective observers interested in describing all facets of languages, these simply were not complete enough (Van Dijk 1977a: 3). Specifically, Van Dijk observes that the current logical systems have been inadequate to describe the connectives because these formal systems are dependent on the existence of truth value relations, a dependency which is not always the case for sentence relations in natural languages (Van Dijk 1977a:12). Givon also addresses the issue of thinking that a speaker of a natural language always assumes what he knows to be true. Givon claims that a speaker assumes only what he believes his hearer believes to be true. Thus, a purely deductive system is not as valid in analyzing natural language as a probabilistic inductive system (Givon 1979:92).

Van Dijk also contends that a pragmatic description of connectives can not be given in terms of the semantic meaning of the individual lexical item alone, but must include a description of those items within a context (Van Dijk 1981:166). Thus, a theory which is based on the belief that syntax is autonomous, and which tries to operate within a formal descriptive model is not sufficient as a tool for the description of connectives. Van Dijk states that a grammar should be a generative description of sentence structure relative to its position in the rest of

the discourse. He expresses his opinion on this subject in the following quotation:

Apart from the lack of a serious semantics of connectives, there has been another reason for the neglect of their treatment in generative grammar. A study of connectives requires a characterization of the systematic relations between sentences or clauses. Such a characterization has been given only partially, especially of syntactic aspects, in the framework of sentential grammars, but was one of the major aims of recent work in text grammars. (Van Dijk 1977a: 11).

One generative grammar which is recommended by Van Dijk as meeting the criterion of going beyond the sentence is that of Simon Dik 1978, Functional Grammar.

Dik spends some time early in his book outlining the basic underlying differences between formal and functional approaches to linguistic description. While formalists maintain that language is a set of sentences, and its primary function is to express information, functionalists say that language is social interaction and its primary function is to communicate. Formalists believe that the psychological correlate to language is the competence to produce, interpret, and judge sentences. Functionalists feel that the psychological correlate is a communicative competence to carry on social interaction. According to formalists, sentences can be described independently of context and situation, but functional grammar holds that descriptions provide

points of contact with function in setting. As formalists see it, children construct a grammar using innate universal properties of language to interpret the scant and 'degenerate' data they are exposed to, while functionalists feel that a child discovers a system in a highly structured situation with a great deal of input. Formalists see language universals as innate and specific to language, but functional grammar would see them as a function of the goals of communication given the shared biological, psychological, and cognitive context of mankind. Lastly, formalists typically see syntax as autonomous with respect to semantics and pragmatics, with the directionality of language moving from syntax to semantics to pragmatics. The functionalist camp sees pragmatics as an all encompassing framework within which syntax and semantics operate. Thus, language directionality is from pragmatics to semantics to syntax (Dik 1978:4-5).

It is interesting to note that Dik states in his preface that he formulated his functional grammar when trying to describe coordination constructions using a formalist approach and discovered that he could not do so without considering function, a move which TG grammar did not allow for. Dik differentiates function from category by showing that the words 'the old man' can be called a noun phrase in any setting, even as they are printed here; however, they can only truly be called a subject when they are operating in the context of a sentence such as, 'The old man sat down.' Context is necessary in order to

define function. He also notes that the notion of function is not limited to syntactic labelings such as subject. There are actually three levels of function. These are syntactic, semantic (realized by terms such as agent or goal), and pragmatic (theme, tail, topic, focus) (Dik 1978:12-13). The pragmatic function is further subdivided into external, (theme or tail), and internal, (topic or focus). The theme is the universe of discourse within which a predication functions and to which subsequent predication is presented as relevant; the tail is an afterthought to clarify or modify. Topic is the referent of which something is predicated, and focus is the most important or salient information in a proposition (Dik 1978:19).

Other linguists have proposed grammars which take function into account. M.A.K. Halliday is the creator and main spokesman for a linguistic theory known as systemics. Systemics, like Dik's functional grammar, works with linguistic concepts on the semantic and pragmatic levels as well as on a syntactic level. Many of the pragmatic functional terms such as theme, rheme, etc., which originated with the Prague School, are used by Halliday. Ruqaiya Hasan has also done specific work in the area of cohesion. Together she and Halliday have written an important linguistic work titled Cohesion in English (1976).

Cohesion as a concept provided answers to many of the questions that linguists had raised in their attempts to describe the function of conjunctive elements. Cohesion is defined as 'the relations of meaning that exist within a text, and that define

it as a text.' (Halliday and Hasan 1976:4). These relations are revealed in the text through cohesive ties which are formed between items in the text which presuppose the existence of other items in the text (Hartnett 1982:210). These items assume that the other items exist somewhere in the text or context. For example, 'It's too bad about Carl's not being able to come ' presupposes that Carl didn't come (Tyler 1978:306). The text created by this cohesion is defined as any passage whether spoken or written which forms a 'unified whole' and is recognized as such by a native speaker (Halliday and Hasan 1976:1). Conjunction is one way in which cohesion is manifested in text. While most of the cohesive elements listed (ellipsis, pronominalization, lexical cohesion, etc.) could clearly be shown to be either lexical or grammatical in their cohesive nature, conjunction is described as being both although it is primarily grammatical (Halliday and Hasan 1976:5-6). In other words, conjunctive elements are not cohesive so much because of their independent meanings but because they express meanings which presuppose the existence of a preceding or following element which complements that meaning (Halliday and Hasan 1976:226). Usually, the relationship expressed is between what has gone before and what is coming up. Conjunction differs from other forms of cohesion in that what is presupposed is usually a unit longer than a sentence (Halliday and Hasan 1976:16). This particular characteristic of conjunction is important in examining frequency of use factors for various conjunctions. Because

function is the primary factor in determining the presence of a conjunctive tie, Halliday and Hasan recognize the following categories of elements as functioning as conjunctions: compound adverbs, some formulaic prepositional phrases, coordinating conjunctions, subordinating conjunctions, and prepositional expressions with that or some other reference item (Halliday and Hasan 1976:231).

Another linguist who has taken particular interest in conjunctions as they function in text is Teun Van Dijk, mentioned previously, who not only has studied the progress of linguistics from a pragmatic standpoint, but also has attempted to describe many elements of pragmatic interest himself. It is his feeling that even text grammars have spent more time on pronouns and indefinite articles as cohesive elements than on connectives. His use of the term 'connective' corresponds closely to Halliday and Hasan's use of the word 'conjunction'. We will be using the term 'connective' to refer to those elements which signal a conjunctive tie lexically throughout the remainder of the paper. To better explain connective, Van Dijk has explored pragmatics more fully.

When linguists began to seriously consider pragmatics in depth, the final barriers between linguistics and other fields of study began to fall. Van Dijk believes that this is healthy; a theory of pragmatics needs to be interdisciplinary and include input from philosophy, psychology, and sociology as well as linguistics. Without this broad base, the theory will lack scope

and will be incomplete in its explanation (Van Dijk 1981:2). Other linguists have echoed this sentiment.

Halliday and Hasan discuss cohesion as being manifested both grammatically and lexically. They assert that cohesion itself is a constraint of text and not of graphics, syntax, semantics, or context (Halliday and Hasan 1976:65). Van Dijk prefers to talk about coherence, a term which he says includes cohesion, but also includes syntactic, stylistic, and pragmatic constraints. Syntactic coherence is the syntactic means for expressing semantic coherence and includes pronouns, definite articles, etc. This category would include the Halliday and Hasan notion of grammatical cohesion. Stylistic coherence is the use of style, register, lexical choice, and sentence complexity and length to express coherence. This would include lexical cohesion. Pragmatic coherence is the sequence of speech acts which relate conditions of pragmatic context such as situation, intention, attitude, etc. (Van Dijk 1983:149). Since conjunction is defined by Halliday and Hasan as being both lexical and grammatical, it would by their analysis overlap the syntactic and stylistic coherence levels in Van Dijk's model. Van Dijk takes conjunction or connectives a step further and includes pragmatic coherence as a function of connection. Thus, conjunctive elements would span all three levels of coherence. Van Dijk further explains his view of the pragmatic connective by observing that in speech, there will be an accent on the pragmatic connective which emphasizes the relationship of the two

speech acts involved in the connected sentences, while there will be no such accent on connectives which only connect the semantic or factual content of the two sentences. The fact that a connective is functioning pragmatically does not, however, change the fact that it carries some semantic information with it (Van Dijk 1981:166).

Another issue which Van Dijk addresses involves his objection to the TG point of view which would say that sequences of sentences derive from a single 'S' node and are thus compound sentences. Since he sees that in surface structure, many sentences begin with connectives, he hypothesizes that the use of end punctuation preceding some connectives and not others actually signals paralinguistic cues of speaking such as pauses, accents, etc. He thus concludes that the variety of punctuation used before and after connective elements is a reflection of the semantic and pragmatic information which these connectives are attempting to communicate (Van Dijk 1977b:20). In other words, the fact that coordinating conjunctions are usually preceded by a comma while conjunctive adverbs in initial position in a clause are preceded at least by a semicolon indicates that in general, coordinating conjunctions carry less pragmatic information than conjunctive adverbs. In addition, when a writer chooses to precede a connective with a period, it may indicate that the connective is serving a pragmatic function. Thus, a writer may connect two sentences with the word and, but if the writer chooses to end one sentence with a period before beginning

the next sentence with the word and, then he is intentionally putting emphasis on the idea of addition. consider for example, the following sentences:

(8) The geodesic dome is strong and inexpensive, and it is easily expandable.

(9) The geodesic dome is strong and inexpensive. And it is easily expandable.

In context, the reader would read the first set of sentences and mentally de-emphasize the word and even as it would be de-emphasized in speech. In the second group of sentences, the tendency would be to read the word and with more mental emphasis, just as it would be accented or stressed in speech. Semantically, this has the impact of a conjunctive adverb such as in addition or moreover. From this kind of observation, Van Dijk concludes that compound or complex sentences are not the same as sequences. Some connectives connect clauses; some connect sentences. The punctuation is a reflection of speech cues that communicate pragmatic information. Van Dijk labels the connectives which connect clauses as sentential and the ones that connect sentences as sequential or textual (Van Dijk 1977b:21). He is not differentiating exclusive grouping of lexical items although it is clear that conjunctive adverbs and transition expressions more consistently initiate clauses. Any connector is capable of being either sentential or sequential.

This brief review of the literature on conjunctive elements has shown several characteristics of conjunction. First of all,

conjunctive elements include groups traditionally labeled as coordinating conjunctions, subordinating conjunctions, conjunctive adverbs, and transition expressions. The common characteristic of all of these is the ability to reflect the relationship of at least one proposition to another. This relationship is one of cohesion and involves presupposition. Cohesion by conjunction involves no fewer than two sentences, but can involve more. Because of the necessity of going beyond the sentence level to describe conjunction, a description of it must be based on a grammar which examines structure in light of function in addition to form. For this reason, the best descriptions of connectives to date are those done by functional linguists such as Halliday and Hasan and Van Dijk.

In the next chapter, we will see how differences in spoken versus written language strategies may determine differences in conjunctive use in the two forms. In this same chapter, we will examine the effects that these differences have on the description of connectives as part of a larger system of discourse cohesion, a system which involves subordination, among other things.

CHAPTER BIBLIOGRAPHY

- Bolinger, Dwight L. 1965. *Forms of English: Accent, morpheme, order*. Cambridge, Massachusetts: Harvard.
- Chatman, Seumour. 1964. English sentence connectors. *Studies in languages and linguistics in honor of Charles C. Fries*, ed. by Albert Marckwardt, 315-34. Ann Arbor: University of Michigan.
- Chomsky, Noam. 1957. *Syntactic structures*. S. Gravehage: Mouton.
- Culicover, Peter W., Thomas Wasow, and Adrian Akmajan. 1977. *Formal syntax*. New York: Academic.
- Dik, Simon C. 1978. *Functional grammar*. Amsterdam: North Holland.
- Francis, Winthrop Nelson. 1958. *The structure of American English*. New York: Ronald.
- Fries, Charles Carpenter. 1940. *American English grammar*. New York: D. Appleton-Century.
- Fries, Charles Carpenter. 1952. *The structure of English*. New York: Harcourt, Brace and Co.
- Greenbaum, Sidney. 1969. *Studies in English adverbial usage*. Coral Gables, Florida: University of Miami.
- Halliday M.A.K. and Ruqaiya Hasan. 1976. *Cohesion in English*. London: Longman.
- Hartnett, Carolyn G. 1982. How cohesion expresses thinking. *The journal of the Linguistic Association of the Southwest*. 5,3-4.210-15.

CHAPTER BIBLIOGRAPHY--Continued

- Heidrich, Carl H. 1975. Should generative semantics be related to intensional logic?: Remarks on lexical factorization and semantic structure. Formal semantics of natural language, ed by Edward L. Keenan, 188-204. London: Cambridge.
- Hill, Archibald A. 1958. Introduction to linguistic structures. New York: Harcourt, Brace and Co.
- Hockett, Charles F. 1958. A course in modern linguistics. New York: Macmillan.
- Isard, Stephen. 1975. Changing the context. Formal semantics of natural language, ed. by Edward L. Keenan, 287-96. London: Cambridge.
- Jespersen, Otto. 1933. Essentials of English grammar. New York: Henry Holt and Co.
- Krapp, George P. 1925. The English language in America. New York: Century.
- Labov, William. 1972. Sociolinguistic patterns. Philadelphia: University of Pennsylvania.
- Quirk, Randolph and Sidney Greenbaum. 1973. A concise grammar of contemporary English. New York: Harcourt Brace Jovanovich.
- Tyler, Stephen A. 1978. The said and the unsaid: Mind, meaning, and culture. New York: Academic.
- Van Dijk, Teun A. 1977a. Text and context: Explorations in the semantics and pragmatics of discourse. London: Longman.
- Van Dijk, Teun A. 1977b. Connectives in text grammar and text logic. Grammars and descriptions, ed. by Teun A. Van Dijk and Janos S. Petofi, 11-63. Berlin: Walter de Gruyter.

CHAPTER BIBLIOGRAPHY--Continued

- Van Dijk, Teun A. 1981. Studies in the pragmatics of discourse.
The Hague: Mouton.
- Van Dijk, Teun A. and Walter Kintsch. 1983. Strategies of discourse comprehension. New York: Academic.
- Whitehall, Harold. 1951. Structural essentials of English. New York: Harcourt Brace and Co.
- Winterowd W. Ross. 1970. The grammar of coherence. College English. 31,8.828-35.
- Zandervoort, Reinard Willem. 1965. A handbook of English grammar. Englewood Cliffs, New Jersey: Longmans-Prentice-Hall, Inc.

CHAPTER III

THEORETICAL BACKGROUND

Orality versus Literacy

Recent studies comparing written and spoken languages have shown that there are many difference between them which have not been carefully examined before. Among the differences always noted in these studies are the amount of coordination vis a vis subordination. Ong notes that oral structures tend to be more additive than subordinative (1982:370). Tannen (1982:42) cites several studies (Chafe 1982, Kroll 1977, and Ochs 1979) all of which agree that oral narrative is generally strung together without conjunctions or with the 'minimal' conjunction and, while written narrative has carefully chosen conjunctions which show the relationships between ideas.

Givon 1979 has shown evidence of phylogenetic and ontogenetic progressions of language in what he calls the process of 'syntactization'. He states that in all languages, two poles exist on a continuum of communication modes with every possible point in between. The two poles are what he calls 'pragmatic' and 'syntactic'. The pragmatic mode is characterized by topic-comment structure, loose coordination, a slow rate of delivery, old-new information word order, a one-to-one ratio of verbs to nouns, no use of grammatical morphology, and prominent intonation

and stress marks on new information, less on topic. The syntactic mode, by contrast, has a subject-predicate structure, tight subordination, a fast rate of delivery, semantic-case function word order, a larger ratio of nouns-over-verbs with semantically complex verbs, elaborate use of grammatical morphology, but little difference in intonation patterns. These two poles correspond phylogenetically to the development of languages from pidgin to creole, ontogenetically to changes from childhood language to adult language, and for language registers from informal to formal (Givon 1979:222-23).

Specifically, different studies have shown there to be more relative clauses and dependent clauses in written discourse (Wrase 1984:6), longer sentences containing longer words of more variety (O'Donnell 1974:102), more conjoined phrases, prepositional phrases, complement clauses, participles, and attributive adjectives (Chafe 1982:41-4), and more initial subordinating clauses (Kroll 1977:87). On the average, subordinate structures of various types were twice as prevalent in written discourse as in spoken.

On the other hand, spoken discourse had four times as many initial instances of the words and, but, so and because as written discourse (Chafe 1982:39). In general, spoken language appears to more fragmented than written language in the sense that each unit is tied to the next only loosely through coordination; the relationships between ideas are not explicitly stated but must be gathered from the context (Chafe 1982:38).

Several reasons for these differences have been given. Chafe believes that the primary reason has to do with processing time. Because writing takes longer than speaking and reading takes less time than speaking or hearing, the writer has time to integrate his ideas with connectives and the reader has time to assimilate the more complex sequences (Chafe 1982: 37-8).

Nystrand believes that audience distance and the consequent need for decontextualization is the major factor in producing more explicit connectives in writing.

Most written material does not have a well-defined audience; once the paper is written, it must stand on its own, strangely institutionalized and decontextualized.

(Nystrand 1982:32).

In speech, the audience is well-defined and the speaker can better make assumptions about what knowledge is shared by his hearer. This is less true for writing. The writer cannot make as many assumptions about 'shared knowledge' and must be more careful to fill in contextual gaps in the text. A speaker looks to his own convenience, relying more on the context of situation to make his meaning clear and 'fill in the gaps.' Writers rely more on syntax and organization for clarity (Ong 1982:378). Givon describes formal writing as 'a mode of communication in a mass society of strangers.' He states that this type of writing typically involves careful preplanning, corrections and rewriting. This type of activity is missing in informal speech (Givon 1979:231).

Studies of child acquisition of connectives reveal that children do not acquire the more complex logical relations until later in their development and that subordination is directly tied to age and level of school. Small children learn the various possible meanings of and first and in the following order: additive, temporal, causal, and adversative. Children are also not consistently able to interpret statements such as

(10) Before he kicked the rock, he patted the dog.

But they had no trouble with

(11) He patted the dog before he kicked the rock.

These data seem to indicate a reliance on the temporal ordering more than the semantic meaning of the word before in interpreting the sentence, such that clausal order is assumed to reflect order of events in real time (Ching 1982:6-7). In another study of children aged nine to fifteen, Harrall noted more subordinate clauses in writing in speech, with differences increasing with age (O'Donnell 1976:103). As Givon points out, it appears that the acquisition of literacy increases children's grasp of syntactic complexity and moves their language from the pragmatic mode to the syntactic mode (Givon 1979:224).

The shift from orality/coordination to literacy/subordination is not limited to children within a literate culture. Thompson and Longacre note that adult native speakers of Indian languages who had been exposed to Spanish began to borrow subordinators from Spanish. They cite several possible reasons for the borrowings: influence from a higher prestige language,

allowances in these particular languages for such a morphemic structure, and the creation of new patterns in the native language to reflect new logical patterns from the second language (Thompson and Longacre 1978:54-5). They also noted that in nonliterate languages such as the Phillipine language, Itneg, there is a connection system which would be considered rather boringly limited in English. They add that 'when literacy and writing are firmly established in a community, there follows a fresh reaching forth for the resources of the oral language to enrich the written style.' (Thompson and Longacre 1978:67).

Kenneth Pike gives an example of a speech community which was both totally oral and isolated from influence from literate prestige languages. After literacy was introduced into the community in the native language, subordinate structures began to appear in the writing which had not been in the language before (Pike 1984). Givon points out that in some 'preindustrial, illiterate societies with relatively small homogeneous social units' it has been shown that subordination does not exist at all (Givon 1979:298). Rader (1982:186) discusses the issue this way:

In order to be a vehicle for autonomous communication in speech or in writing, a language must develop the resources (these include syntactic resources such as relative clauses and other kinds of subordinate structures, and lexical resources, especially subordinating conjunctions) to mark subtly different logical relationships.

While the differences between spoken and written languages have not been analyzed until fairly recently, there has been some awareness of the differences. In general, writers have been encouraged to use more subordination in classroom situations, and good writing has been and still is often evaluated as writing which has more variety of lexical items and more subordination.

In 1940, Fries comments that, '...and appeared 50% more times in Vulgar English than in Standard English' (Fries 1940: 209). Whitehall comments also on the lack of connective variety in spoken English. He states, '...the conjunctive system of colloquial spoken English can only be described as impoverished' (Whitehall 1951:74). Note the disparaging terms used to refer to spoken varieties of English.

More recently, rhetoricians comment that it is preferable for writers to write with what is known as 'syntactic fluency'. 'Syntactic fluency is nothing more than the ability to use the syntactic resources of the language to embed proposition within proposition...' (Winterowd 1976:206). This idea reflects the effects of transformation grammar on the field rhetoric. Studies have been done to see if the study of TG grammar helps in the improvement of writing. It was thought that the TG concept of embedded sentences might help students to see the relationships of syntactic units within sentences. Although the studies were inconclusive about TG grammar as an aid to better writing, it

is generally agreed that greater subordination is usually found in the papers of writers who are labeled as being good (O'Hare 1971:2).

Several of these types of studies have been done with college freshman papers. In each of these studies, papers were evaluated in some holistic way as good or bad, then tests designed to measure syntactic maturity were applied to see what made better papers better. Generally, it was agreed in all studies that better writers used more subordination, greater lexical variety, and more cohesive ties of different kinds (Witte and Faigley 1981, Anderson 1980, and Hartnett 1982).

Thus, the prevailing attitude has been that the use of increased subordination in written English is somehow superior to a written English which relies on typically oral strategies, presumably because of the ability of subordination to convey the more subtle connections of language. In support of spoken language, many point out the superiority of immediate context and nonverbal factors in oral communication. Their attitude is that this increased subordination and lexical complexity is only a substitute for the features of speech which cannot be encoded in writing, but which have important semantic and pragmatic roles.

Tannen points out that cohesion is established in spoken discourse in part through paralinguistic features such as pitch, tone, speed, and expression while written discourse must rely more on careful lexical choice for cohesion (1982a:41). A simple coordinating conjunction can, with the help of these kinds of

features, carry a large semantic and pragmatic load. Kroll singles out the coordinating conjunction and and states that it can function pragmatically in discourse to fill space, hold the floor, or indicate that some connection is being made in the speaker's mind. She states:

While it is possible to view the word and as being a weak connector in that it does not specify an explicit relationship between ideas the way many subordinate markers do, we might instead view the word and as the major cohesive strategy for linking ideas in these casual spoken narratives. (Kroll 1977:95).

Halliday notes that although it is true that spoken language tends to use a few markers like and, but, or, for, then, and so to mark many different relationships in different contexts, it is the nature of conjunction to state explicitly a relationship which already exists in the context between two propositions. Thus, the same logical relationships occur in both speaking and writing. They are simply expressed in different ways, ways that are functionally appropriate to the communication situation (Halliday 1984).

A good example of the ability of these spoken connectives to express a variety meanings is again the word and. Fries states that and can mean not only additive, but also emphasis, adversative, conclusion of conditional, introduction of an explanatory clause, and connection of two unequal verbs (Fries 1940:217-20). Van Dijk also believes that the conjunction idea of and is so general that it can express many different meanings.

For example, 'Give me that book, and I'll show you the picture.' expresses the connection of if...then (Van Dijk 1977b: 39). Quirk and Greenbaum list eight possible semantic implications of coordination by and as follows:

- (12) (a) The event in the second clause is a consequence or result of the event in the first.
e.g. 'He heard an explosion and he phoned the police.'
- (b) The event in the second clause is chronologically sequent to the event in the first.
e.g. 'She washed the dishes and she dried them.'
- (c) The second clause introduces a contrast.
e.g. 'Robert is secretive and David is candid.'
- (d) The second clause is a comment on the first.
e.g. 'They disliked John--and that's not surprising.'
- (e) The second clause introduces an element of surprise in view of the content of the first.
e.g. 'He tried hard and failed.'
- (f) The first clause is a condition of the second.
e.g. 'Give me the money and I'll help you escape.'
- (g) The second clause makes a point similar to the first.
e.g. 'A trade agreement should be no problem, and a cultural exchange could be arranged.'

(h) The second clause is a 'pure' addition to the first.

e.g. 'He has long hair and he wears jeans.'

(Quirk and Greenbaum 1973:257)

Quirk, Greenbaum, and others have also shown that other common connectives such as but, or, then, etc. have much the same general semantic properties as and. From the above, we can conclude that spoken language does not express fewer logical relationships than written language. Rather, the written language must often rely more on the variety of choices available to the writer who has more time to think and choose in order to compensate for a less rich context. For the ESL writer, this array of choices can be confusing, especially in light of the syntactic complexity which the subordination system of English entails. What is needed is a description of these connectives which transcends syntactic boundaries.

Semantic Dependency

The relationships which are marked by connectives cannot be discussed in terms of syntax only, for as we have seen, the complex sentence structures of which written English consists are not common to all languages, and certainly not to languages of a primarily oral tradition. However, all languages are systems of communication which are used to interpret, organize, and express real world experience. Thus, at the semantic and pragmatic levels, languages are similar. For this reason, we

should attempt to discuss connectives as manifestations of underlying semantic and pragmatic cohesive relationships.

Linguists have traditionally viewed coordination and subordination from the standpoint of syntactic structure alone as manifested in compound and complex sentences. For instance, in 1958, Hockett discussed an independent clause as one in 'proper shape' to be a simple sentence. He states that dependent clauses are ones which may either begin with subordinating conjunctions or contain a nonfinite verb form (Hockett 1958:205).

Coordination was traditionally believed to be the relationship which exists between two structurally independent clauses, while subordination was held to be the relationship between a dependent clause and an independent clause. These relationships could be marked by coordinating conjunctions or subordinating conjunctions respectively (Whitehall 1951:66-7). Zandervoort 1965 indicated that coordination could also be marked by nothing at all, or a semicolon, or it could be marked by adverbs such as still, yet, indeed, however, etc. Clearly, this analysis reflects the reliance on the sentence boundary and structure as the primary tools of measurement. The problem with this analysis is that there is no distinction between structural dependence and semantic dependence. It is the semantic dependence which we will find to be universal, although it may be manifested in many different ways syntactically.

Linguists who study a variety of languages have, in attempting to describe cohesive relations in these languages, questioned traditional parameters for evaluating coordination

and subordination. Viola Waterhouse argues that her analysis of aboriginal languages makes it clear that the traditional view of the structurally complete sentence as independent cannot be valid; that, in fact, some features in languages cause sentences to be dependent on others for meaning. This dependency forces those sentences to be part of a larger unit of discourse. She includes in her list of features semantic information which somehow completes an otherwise incomplete situation (such as an answer to a question), anaphoric reference, and sequence marking particles or phrases (such as English conjunctive adverbs) as examples of structures which force sentences to be dependent (Waterhouse 1963:45).

This idea is found later in Halliday and Hasan's Cohesion in English, which analyzes those devices in English which cause text to be formed. Their analysis includes and expands the Waterhouse list of cohesive elements which create semantic dependency between units of discourse. We might say then that cohesive devices contribute to and reflect semantic dependency.

Another step in examining semantic dependence is to think in terms of dependencies between units which are not limited by the structural boundaries of the sentence. This has been done by attempting to create new terms to describe those units which are joined by cohesive devices but which may or may not be limited to the boundaries of a sentence or clause. Terms such as proposition, idea unit, discourse unit, etc., have all been proposed and defined as potential units above the level of the

sentence. Pitkin 1969 has used the term 'discourse bloc' to include any element of discourse from the complex word to a group of paragraphs which comprise a single relatable idea. It is his assertion that discourse blocs relate to each other in similar ways at all levels of discourse. He discusses the concepts of coordination versus subordination within his framework and derives four levels: simple coordination, complementation, subordination, and superordination. Simple coordination and complementation are said to be horizontal relations while subordination and superordination are said to be vertical.

Both simple coordination and complementation describe the relationship between two discourse blocs which are equal in terms of semantic generality. Simple coordination describes the relationship between two discourse blocs that are equal in relation to a superordinate category. For example, dog and cat are coordinate to each other as they both are equal in relation to the superordinate semantic category of pet. Complementation is the relationship that exists between two discourse blocs that are meaningful only in terms of the relationship that exists between them. For example, a question is meaningful only in the context of its answer and vice versa.

Subordination and superordination are vertical in the same way that an outline is vertical. In a sense, the relationships of subordination and superordination are the same, it is the direction which is different. Subordination is the relationship of genus to species, while superordination is the relationship

of species to genus. Tyler discusses this concept also. He states that when we use the words for example, we are in effect subordinating what follows to some general principle that precedes (Tyler 1978:353). Superordination would take place when a group of particulars is anaphorically referred to by a more general term or summary statement. Again, Pitkin feels that these relationships exist at all levels of discourse. Thus, he is working outside of a syntactic framework in describing his coordinate/complement and subordinate/superordinate relations. He states:

The structure of written discourse--like the structure of the complex word, the phrase, the clause--is hierarchical units embedded within or added to still larger units; and at any level of the continuum the units are to be discovered not by their shape on a page, not by how long they are or how they are punctuated, but by what function they are serving in the discourse. (Pitkin 1969:141).

There is support for Pitkin's ideas in the discourse analysis literature. Labov and Waletzky have studied the structure of oral narrative and have discovered that there are basically four clause types, which they call coordinate clauses, narrative clauses, free clauses, and restricted clauses (Labov and Waletzky 1967:22). Although there is not a neat one to one correspondence between the Pitkin divisions and the Labov and Waletzky clause types, the ideas of coordination seem to be similar, and the concepts of complementation, subordination, and superordination

would fit into the descriptions of the semantic ranges of free, narrative and restricted clauses. Labov and Waletzky label as coordinate any two clauses which can be interchanged without changing the semantic structure of the narrative. These two clauses would then have Pitkin's simple coordinate relationship as they have an equal relationship to the superordinate narrative line. We can also see that narrative clauses, which are those which cannot be moved without changing the narrative, have a type of complement relationship among themselves since they are interdependent on each other to form the narrative. Free and restricted clauses have more freedom of movement within the whole narrative and thus do not establish a set relationship which can be analyzed outside a text. We can see that in each of these analyses, semantic relations to the surrounding ideas are what are used to classify connections.

The distinction of coordination to complementation helps explain why one can say both (a) and (b) below, but not both (c) and (d).

- (13) (a) He stamped his foot and he clapped his hands.
 (b) He clapped his hands and he stamped his foot.
 (c) It is raining and it will not stop raining until tomorrow.
 *(d) It will not stop raining until tomorrow and it is raining.

The relationship of the clauses in (a) and (b) is one of simple coordination while the relationship of the clauses in (c) and

(d) is one of complementation in that they are dependent on each other and the ordering of (c) for meaning as a text.

We might conclude that the concept of simple coordination as a relationship between units of semantic information has less semantic dependence than the relations of complementation, subordination, or superordination. In the next section, we will discuss the functions that connectives play in discourse.

Discourse Functions

We mentioned before that cohesive devices are one way of establishing semantic dependency. Cohesion, as Halliday and Hasan (1976) have defined it, involves what they call presupposition insofar as cohesive ties presuppose the existence of some element in either the preceding or following text. In cohesion by conjunction, it is the relationship between what precedes and what follows that is being marked (1976:227). Although Halliday and Hasan limit most of their attention to cohesion between sentence-sized units, they do state that cohesion through conjunction usually presupposes a passage which is longer than a sentence (1976:16). They also state that conjunctive cohesion does not honor written sentence boundaries (1976:233). Thus, they recognize that the sentence itself is not the domain to which cohesion by conjunction is limited although they continue to use the term 'sentence' in the text.

Tyler discusses semantic/pragmatic presupposition itself as a connecting force, independent of any overt relator. 'Finding an appropriate presupposition is one general means of

establishing a connection between sentences in a discourse even when there is no overt sign connecting them (Tyler 1978: 352). Such an observation further complicates the problem of assigning a specific functional meaning either to the individual lexical items or the construction types themselves.

These elements of semantic dependency which have been described here (presupposition, semantic inclusion, etc.) perform certain tasks within a discourse unit. Among these are topic maintenance and introduction, foregrounding and backgrounding, and text continuity/discontinuity.

Topic introduction/maintenance is one aspect of semantic dependency across clauses in a discourse. In recent years, the notion of topic has largely been limited in its scope to a discussion which has centered around the distinction between 'topic' and 'subject' at the sentence level. Some have even implied that subject was just a 'grammaticalization' of topic. Recently, Givon (1979), in a discussion of switch reference, points out that 'topic can only be evaluated in light of its discourse function. The particular function he considers is that of continuity versus 'surprise'. Continuity can be found in three aspects of discourse: thematic continuity, action continuity, and participant or topic continuity.

Thematic continuity is an aspect of discourse which has been familiar to rhetoricians and composition teachers for a long time, but which has only recently been analyzed as a linguistic phenomenon. Terms such as thesis idea, topic sentence,

key word, etc. have been part of the language of rhetoric for centuries. These terms have referred mainly to the tracking of one 'main idea' or purpose throughout a planned, written text. The 'theme' is then reemphasized through the use of topic sentences in paragraphs, conclusion statements, repeated key words from the main idea, and so forth.

Action continuity is closely related to narrative structure. Technically, it is the chaining of predications in a way that is cohesive and provides 'temporal or causal sense'(Givon 1979: 54). Those clauses which are outside of this sequence are known as backgrounding. Those within it that push forward the 'event line' are known as foregrounding (Givon 1979:54).

When a particular participant appears consistently in each of a sequence of foregrounding clauses, the participant is a topic of that sentence and of the surrounding discourse. This is known as topic continuity. The concept of topic continuity finds support in Li and Thompson, who, in their important discussion of subject and topic, describe topic as 'the center of attention; it announces the theme of the discourse.' (1976: 464). In the same volume, Keenan and Schieffelin describe topic in the context of primarily spoken discourse in which referents 'agree' on a topic and 'collaborate' or 'incorporate' that topic into their discourse. The stretch of discourse in which this topic incorporation takes place is called 'continuous discourse' (Keenan and Schieffelin 1976a:342).

In stretches of discourse which are not linked in this way, no claim or 'presupposition' is being made about topic from the previous utterance. This type of discourse is called 'discontinuous discourse'. In this type of discourse utterance, the topic may be being changed either by reintroduction of a previous topic, or by introduction of a new topic (Keenan and Schieffelin 1976a:342). Every utterance or sentence carries a topic. Keenan and Schieffelin assert that each has a discourse topic that functions in the discourse either continuously or discontinuously.

A discourse topic is a proposition (or set of propositions) expressing a concern (or set of concerns) the speaker is addressing. It should be stressed that each declarative or interrogative utterance in a discourse has a specific discourse topic. (Keenan and Schieffelin 1976a:343).

We can see that in general, sentence topic and discourse topic are basically the same. The sentence topic either functions to continue the topic from the previous utterance or topic in foregrounding, or it functions as a change or discontinuity of topic in backgrounding.

Givon notes that foregrounding tends to be syntactically realized as main clauses, while backgrounding tends to be realized by subordinate clauses (1979:55). We will see more details on syntactic realizations in Chapter Four.

The Labov and Waletzky study (1967) contributes to our understanding of continuity/discontinuity as it applies to narrative structure. In their study, those clauses which were

listed as narrative clauses could be said to be foregrounding while those clauses which they call free clauses could be called backgrounding, as they provide background material to but do not advance the story line. A study of narrative versus definition discourse structures by Allen Munro and Lynn Gordon has shown a difference in the intersentential semantics of the two types. They discovered that narrative clauses which advance the story line and cannot be moved or deleted without changing the semantics of the story, contain intersentential relations which might be called causal, while in definitions, the relationships between clauses often are of semantic coordination. The only times that the clauses used in the definitions were not clearly in a coordinate relationship were when two clauses together provided a sequential or narrative type of descriptive definition (Munro and Gordon 1981). These data would indicate that backgrounding and foregrounding are discourse functions which are established through semantic dependency correlating with syntactic subordination versus coordination. It further seems to suggest that the choice of rhetorical development has an effect on the amount of foregrounding and backgrounding found in a discourse. Narrative would tend to have more foregrounding, while expository writing such as definition, which serves the purposes of amplifying, would consist more of backgrounding.

Recently, some of Thompson's work has also been concerned with the description of discourse topic. The structure of topic in discourse is often described as one of topic/comment. At the

sentence level, this may take the form of a subject followed by its predication (Hockett 1958:191). Thompson and Longacre show that at the discourse level, the topic/comment structure may consist of a subordinate/main clause structure in which the semantic content of the subordinate clause is a summary mention of the discourse theme of the preceding unit of discourse and the main clause is an assertion about the relationship of the preceding discourse and the following. This type of structure is known as summary linkage. Another type of linkage is known as tail-head linkage. In this type, the summary is in the last unit of the preceding discourse as a type of conclusion. The summary is then restated in the first unit of the next larger unit of discourse. Very often, this will be a subordinate clause, followed by a main clause carrying a comment on that topic. The example below illustrates this relationship between two sentences.

- (14) When it was almost the middle of the morning, then I returned and stopped by to eat some young coconut on the path. While I was still eating the young coconut, I just saw Awey coming from downstream carrying a small bag over his shoulder. (Thompson and Longacre 1978:71).

In each underlined subordinate clause, backgrounding information is taking place, while in the main clauses that follow, the story line is being advanced in foregrounding. The subordinate clause of the second sentence restates a summary of the activity

of the main clause which precedes it. This, then, is an example of tail-head linkage in discourse. In both types, tail-head and summary, the summary can form a type of superordination relationship between the preceding unit of discourse and the first part of the next unit of discourse, particularly if the head part of linkage summarizes many smaller more loosely arranged ideas.

We have described semantic dependency as the relationships between units of discourse which cause them to depend on each other for meaning within the context of a text. We can see that this semantic dependency is a component in the discourse functions of topic introduction and maintenance as it is manifested in discourse units of backgrounding and foregrounding, and as it allows for continuity and discontinuity. Syntactically, these appear to be primarily manifested as various degrees of subordination and coordination. Using our semantic descriptions of coordinate and subordinate clause types, we will now look at some of their possible syntactic realizations in English.

CHAPTER BIBLIOGRAPHY

- Anderson, Pamela L. 1980. Cohesion as an index for written and oral composition of ESL learners. Paper presented at the 22nd annual meeting of the Midwest MLA. Minneapolis, Minnesota. November 6-8.
- Chafe, Wallace. 1982. Integration and involvement in speaking, writing, and oral literature. Spoken and written language: Exploring orality and literacy, ed. by Deborah Tannen, 35-53. Norwood, New Jersey: Ablex.
- Ching, Marvin K.L. 1982. Helping students to find the proper connective: Why the difficulty. Paper presented at the 33rd Conference on College Composition and Communication. San Francisco, California. March 18-20.
- Fries, Charles Carpenter. 1940. American English grammar. New York: D. Appleton-Century.
- Givon, Talmy. 1979. On understanding grammar. Perspectives in neurolinguistics and psycholinguistics, ed. by Harry A. Whitaker. New York: Academic.
- Halliday, M.A.K. and Ruqaiya Hasan. 1976. Cohesion in English. London: Longman.
- Halliday, M.A.K. 1984. Personal interview on the occasion of the Second Rice University Symposium in Linguistics and Semiotics. February 10.

CHAPTER BIBLIOGRAPHY--Continued

- Hartnett, Carolyn G. 1982. How cohesion expresses thinking. The journal of the Linguistic Association of the Southwest. 5,3-4.210-15.
- Hockett, Charles F. 1958. A course in modern linguistics. New York: Macmillan.
- Keenan, Elinor Ochs and Bambi B. Schieffelin. 1976a. Topic as a discourse notion: A study of topic in the conversations of children and adults. Subject and topic, ed. by Charles Li, 335-84. New York: Academic.
- Kroll, Barbara. 1977. Combining ideas in written and spoken English: A look at subordination and coordination. Discourse across time and space, ed. by Keenan and Bennett, 69-108. Southern California Occasional Papers in Linguistics. New York: Academic.
- Labov, William and Joshua Waletzky. 1967. Narrative analysis: Oral version of personal experience. Essays on the verbal and visual arts: Proceedings of the 1966 annual spring meeting of the American Ethnological Society, ed. by June Helm, 12-44. Seattle: University of Washington.
- Li, Charles N. and Sandra A. Thompson. 1976. Subject and topic: A new typology of language. Subject and topic, ed. by Charles Li, 457-90. New York: Academic.
- Munro, Allen and Lynn Gordon. 1981. Intersentential semantics and text type. Unpublished manuscript.

CHAPTER BIBLIOGRAPHY--Continued

- Nystrand, Martin. 1982. Introduction. What writers know: The language, process, and structure of written discourse, ed. by Martin Nystrand, 1-30. New York: Academic.
- O'Donnell, Roy C. 1974. Syntactic differences between speech and writing. *American speech*. 49,2.102-10.
- O'Hare, Frank. 1971. Sentence combining: Improving student writing without formal grammar instruction. *National Council of Teachers of English research reports*, 5. Urbana, Illinois: NCTE.
- Ong, Walter J. 1982. *Orality and literacy: The technologizing of the word*. London and New York: Methuen.
- Pike, Kenneth. 1984. Personal comments made on the occasion of the Second Rice University Symposium in Linguistics and Semiotics. February 10.
- Pitkin, Willis, Jr. 1969. Discourse blocs. *College composition and communication*. 20.138-48.
- Quirk, Randolph and Sidney Greenbaum. 1973. *A concise grammar of contemporary English*. New York: Harcourt, Brace, Jovanovich.
- Rader, Margaret. 1982. Context in written language: The case of imaginative fiction. *Spoken and written language*, ed. by Deborah Tannen, 185-98. Norwood, New Jersey: Ablex.
- Tannen, Deborah. 1982a. The myth of orality and literacy. *Linguistics and literacy*, ed. by William Frawley, 37-50. New York: Plenum.

CHAPTER BIBLIOGRAPHY--Continued

- Thompson, Sandra A. and Robert E. Longacre. 1978. Language typology and syntactic field work. Unpublished manuscript.
- Tyler, Stephen A. 1978. The said and the unsaid: Mind, meaning, and culture. New York: Academic.
- Van Dijk, Teun A. 1977b. Connectives in text grammar and text logic. Grammars and descriptions, ed. by Teun A. Van Dijk and Janos S. Petofi, 11-63. Berlin: Walter de Gruyter.
- Waterhouse, Viola. 1963. Independent and dependent sentences. International journal of American linguistics. 29,1.45-54.
- Whitehall, Harold. 1951 Structural essentials of English. New York: Harcourt, Brace, and Co.
- Winterowd, W. Ross. 1976. Linguistics and composition. Teaching composition: Ten bibliographical essays, ed. by Gary Tate, 197-222. Fort Worth: TCU.
- Witte, Stephen and Lester Faigley. 1981. Coherence, cohesion, and writing quality. College composition and communication. 32.189-204.
- Wrase, Judith. 1984. Connecting ideas in ESL writing. TESOL newsletter. 18,1.6-8.
- Zandervoort, Reinard Willem. 1965. A handbook of English grammar. Englewood Cliffs, New Jersey: Longmans-Prentice-Hall, Inc.

CHAPTER IV

SYNTACTIC CONSEQUENCES

The Semantic Dependency/Syntactic Complexity Continuum

Up to this point we have seen that a description of connectives can be revealing only when the semantic relationships and pragmatic constraints on complex sentences have been considered. We have also seen that the ways in which semantic relationships are encoded syntactically differ for oral and literate languages, and for spoken and written discourse in one language. Earlier we discussed the fact that cohesion through the tie of conjunction is manifested both lexically and grammatically. In this section, the lexical and grammatical manifestations will be arranged on a continuum of syntactic complexity which parallels a continuum of semantic dependency arranged by level of discourse function and presupposition.

The idea that a continuum of semantic dependency exists and can be described finds support in a paper by Keenan and Schiefelin (1976b). They assert that there are degrees of independence for predications based on how formally integrated the predications are. In particular, they cite conjunctions, adverbs, anaphora, etc. as formal manifestations of the semantic relations between utterances, and state that these form a continuum where acts of

communication may be measured for varying amounts of dependence. They state that such a continuum can be used to characterize properties 'within and across languages' such as written and spoken properties, topic prominence and subject prominence properties, and ontogenetic development (Keenan and Schieffelin 1976b:255). Givon (1979) also discusses the continuums of spoken and written languages and ontogenetic development, but in addition, he discusses phylogenetic development, and informal and formal language properties. In each of these cases, a movement toward what he calls 'syntactization' takes place, so that language tends to move toward more syntactic complexity as it becomes increasingly literate and develops a formal style. A syntactically complex language is characterized by embedded clauses, more verbs per proposition, and more arguments per verb.

Semantic complexity is, among other things, ordered by the complexity of the presupposition. The most complex presupposition is one which presupposes a particular which is not easily recoverable in the communication situation and can rely only on general pragmatic knowledge for identification. The least complex is one which presupposes an item in the nearby context of the discourse itself (Givon 1979:75). Complexity in these cases is measured then by the distance between interlocutors in a communication act. For example, two intimate friends will share more knowledge; thus, their communication will be less complex than that of the writer and reader of a journal in which the writer must provide almost all identifying information in the text itself (Nystrand 1982).

We use 'presupposition here in the same sense that Halliday and Hasan use it in Cohesion in English. They assert that cohesion occurs when a tie 'presupposes' the existence of another item in the text. They go on to say that cohesion does not take place because of presupposition alone--the presupposed item must be present in the text (Halliday and Hasan 1976:3). This is not altogether true. Sometimes a presupposed item is in the context, or it is part of the assumed shared knowledge of the hearer/reader. Cohesion fails to take place when a particular is not identifiable, whether or not it is present in the context or text.

In order to be more clear about the meaning and scope of presupposition as we use it here, we will rely on the more specific terminology used by Copeland and Davis (1980) to specify an assumption made by a speaker/writer about the knowledge he shares with his hearer/reader. The goal in an utterance is usually to communicate a proposition. Propositions are made up of particulars and predications about those particulars. A particular is always related to a domain of which it is a unique instance (Copeland and Davis 1980:124). For example, 'Nurse Jones' is a particular in the domain of 'nurses'; 'Parkland Hospital' is a particular in the domain of all hospitals. In preparing to state an utterance, a speaker makes certain assumptions about what his hearer knows. One assumption is that a hearer has certain particulars in his immediate consciousness; another is that a certain term uttered by the speaker will cause a desired particular to enter the consciousness of his hearer. A third

is that the consciousness of the hearer is limited in scope; thus, some referents will require more prompting than others (Copeland and Davis 1980:125). When a particular is referred to in some way by the speaker, it can have any one of six states of identifiability in the mind of the hearer, ranging from maximally identifiable and conscious to totally unknown. These are Given, Some, Recoverable, Computable, New, and Novel. Table I in Appendix A taken from Copeland and Davis demonstrates the characteristics of each status. It is the responsibility of the speaker to signal his hearer as to the assumed status of a particular. This responsibility has been called the 'Given-New' contract. The English speaker signals his hearer by using definite articles or indefinite articles, pronouns, etc. We see that the closer to Novel that a particular is, the harder it is for a hearer to identify it or locate it in prior experience, and the more information must be given by the speaker.

As we have stated before, speakers generally may assume more about what contextual knowledge is shared by their hearers than writers can of their readers. Keenan and Schieffelin address some of the reasons for these assumptions. There are several nonverbal behaviors related to the establishment of a particular as topic in a discourse which are unavailable to the writer. These include eye contact, touching, pointing, laughing, crying, tugging, etc. (Keenan and Schieffelin 1976a: 353). An exchange of this type is impossible in writing. Because of the Given-New contract, it is the responsibility of

the speaker to refer to individuals, objects, and events in a way that allows the listener to identify them (Keenan and Schiefelin 1976a:360). This task is much more difficult for the writer than the speaker. However, the writer is not totally without some assumptions about generally shared world knowledge. For example, Tyler points out a phenomenon known as 'entailment' in which context controls certain assumptions. For example, a reader will assume that all birds fly unless ostriches are under discussion (Tyler 1978:303). But, in general, the writer will rely to a greater degree on more syntactically complex structures in preplanned discourse to make clear the particulars he wishes to discuss.

In addition to presupposition or identification of particulars, another measure of semantic complexity is that of continuity; structures which are highly discontinuous or which signal surprise will be more semantically complex than those which signal predictability and continuity. Thus, we might say that backgrounding tends to be more semantically complex than foregrounding (Givon 1979:76). Hopper discusses the semantic and syntactic characteristics of foregrounding and backgrounding (which differs in terms of semantic complexity). Foregrounding clauses are characterized by active, perfective, punctual verbs which tend to state completed action. Foregrounding clauses typically assert information about a clearly identifiable subject which is also usually a human topic in a realis situation. The focus, or that information in the clause which is most

salient or important, is generally unmarked. That is, it is usually realized in the predicate portion of a main clause.

Backgrounding clauses, on the other hand, usually have stative, imperfect, durative or iterative verbs which describe situations which may co-occur along with the narrative action. The purpose of backgrounding is to support, amplify, or comment on a variety of topics, often in an irrealis mode. The focus is generally syntactically marked with frequent changes of subject. This marking often takes place in subordinate clauses (Hopper 1979:215). As we pointed out earlier, backgrounding is characteristic of expository passages such as definition (Munro and Gordon 1981).

'Finiteness' is another scale of semantic dependency. It is measured in a proposition by its temporal or causal independence from other events and by its subject/agent's independent control. Those propositions with the least causal, temporal freedom and the least independent subject/agent will be most semantically dependent (Givon 1983:65). In the following examples, the initial clause of (15) is less finite and less dependent on the second clause than the initial clause of (16).

(15) Having eaten lunch, George left quickly.

(16) George ate lunch, then he left quickly.

A look at Table II in Appendix A shows the relationship of various lexical and grammatical structures to the semantic dependency continuum. This syntactic complexity continuum reflects not only the spectrum of connective choices available to a writer,

but it also reflects the phylogenetic development of languages and ontogenetic development of child language acquisition from the more pragmatic oral mode to the more syntactic literate mode.

At the least syntactically complex end of the continuum, we find simple coordination. In simple coordination, the main clause pairs are adjacent and unordered. There is little or no need for identifying a particular outside of the immediate context, and the clauses are generally syntactically and semantically independent and finite. This type of speech is characteristic of children in particular. In the following example, a three-year-old describes his swimming lesson.

(17) I dived off the big board. I swam at the big pool.
Note that although these events did not co-occur, there is no particular ordering.

The next step on our continuum of syntactic complexity is what we call main clause adjacency. Syntactically, this resembles simple coordination, but these clauses usually have temporal or causal ordering, which is marked through a system of tense/aspect/modality. Particulars are usually presupposed from the preceding proposition and are readily identifiable in the context. Both action and topic (two of three types of continuity described in Chapter Three) are their most continuous in this type of structure. The clauses themselves are finite and independent, but often the topic as well as the tense form are shared, causing them to be less independent than those of simple coordination. Given the context of a person named John who is

cooking soup, the following example shows a causal relationship in adjacent main clauses.

(18) John turned the burner on high. The soup boiled over.

The next step is the lexical marking of an overt connection between two main clauses by a coordinating conjunction. These main clauses may or may not form orthographically independent sentences. Like adjacency pairs, the clauses may be ordered by some temporal or causal relationship. The relationship may also be additive or adversative. The adversative relationship tends to be more discontinuous and toward greater semantic dependency. The coordinating conjunctions themselves are very general semantically. The context of the discourse itself provides most of the semantic information about the nature of the relationship. The semantic load here is greater in the sense that the overt lexical marker definitely signals the hearer/reader to look in the surrounding context for a connection. In a speech situation, the hearer will often receive additional cues regarding the nature of the connection through intonation, pauses, accent, etc. The relationships here are still between relatively independent finite clauses with high predictability and continuity.

(19) John turned the stove burner on high, and the soup
boiled over.

If, however, the coordinating conjunction is marking an adversative relationship, the continuity will not be as great. Adversative relationships express 'surprise' and, therefore,

unpredictability. This can be seen in the relationship of the two clauses in the following example:

(20) John turned the stove burner on low, but the soup
still boiled over.

Conjunctive adverbs and transition expressions, as well as coordinating conjunctions, can mark a relationship between main clauses whether or not the clauses form orthographically independent sentences. In addition, conjunctive adverbs seem to have the ability to indicate relationships between larger units of discourse than the clause. Often they act as connectors between paragraphs in structures similar to the summary-head and tail-head linkages discussed earlier. Also, conjunctive adverbs and transition expressions are more limited in their semantic range than are coordinating conjunctions. They often mark points of surprise or discontinuity in the text, thus functioning as backgrounding.

Their marking of discontinuity in the text is similar to the property of 'internal' conjunction described by Halliday and Hasan. Internal conjunction is a property distinct from 'external' conjunction which relates events in an 'experiential' or 'objective' manner. Internal conjunction relates events in a 'interpersonal' or 'subjective' manner, referring to the writer's or speaker's attitude toward the assertion it introduces. Coordinating conjunctions can be either external or internal, while conjunctive adverbs and transition expressions are usually labeled as internal. Halliday and Hasan state that external conjunction typically takes place in narrative discourse while

internal conjunction is more likely to characterize an internal argument in the text itself. We have stated that foregrounding is more typical of narrative, while backgrounding is more typical of expository or argumentative writing. We might assume that conjunctive adverbs and transition expressions will be more typical of backgrounding than foregrounding.

Since clauses marked by conjunctive adverbs and transition expressions are less continuous in both topic and action, they are less 'predictable'. In cases where the conjunctive adverb or transition relates two large blocks of discourse, such as two paragraphs, identifying a particular becomes more difficult. Often the topic is the entire contents of the preceding paragraph. We have seen this type of relationship in the summary-head linkage described in Thompson and Longacre 1978.

The next point on our scale of syntactic complexity is the finite adverb clause connected to a main clause. In the past, linguists have equated the different positions of adverb clauses in relationship to the main clause as having the same function in relation to the discourse text. However, we are going to limit our discussion to the initial adverb clause in talking about conjunction because there seems to be a difference in discourse function between initial and final adverb clauses. This position finds support in the recent research on purpose clauses done by Thompson. She asserts that an initial purpose clause in discourse serves the function of creating an 'expectation chain' in which the reader is presented with a 'problem' through the

purpose clause with the expectation of receiving a solution in the following main clause. Thompson states, 'In this way the initial purpose clause helps to guide the attention of the reader, helping to signal the thematic development of the text, and thus serves as a discourse organizing device. The final purpose clause does not play this role.' (1983:2).

The initial subordinate clause has the ability to organize discourse and signal its thematic content. This function is dependent not on its being finite or nonfinite, but on its position. In the initial finite adverb clause, the cohesive relationship is being established not only through the adverb (often a subordinating conjunction) which heads the clause, but by the entire adverb clause itself. The adverb clause functions as a conjunctive adverb would in relation to the preceding discourse and following assertion (Bolinger 1965:289 and Thompson and Longacre 1978:1). The cohesive relationship is twofold; not only does the adverb clause have a conjunctive relationship to the following main clause, it also refers to the particulars mentioned in the preceding discourse unit. Such subordinate clauses primarily serve in summary linkage or tail-head linkage constructions described by Thompson and Longacre (1978) which we again have mentioned before. The relationship is marked not only by the initial adverb in a conjunctive tie, but through 'lexical overlap' as well. This takes place where part or all of a discourse unit is repeated or paraphrased in the adverb clause (Thompson and Longacre 1978:64). This type of structure

is backgrounding, which Hopper says is generally carried out through subordinate clauses (Hopper 1978:215).

The initial adverb clause in its function as discourse organizer often marks another characteristic of backgrounding mentioned by Hopper, the tendency for topics to change frequently. Thompson and Longacre assert that the adverb clause is itself the topic of the sentence to which it is subordinate.

At the level of the individual sentence we can say that an adverbial clause whose role is to maintain cohesion within the discourse as a whole is functioning as a topic with respect to the sentence to which it is attached.

(Thompson and Longacre 1978:90)

The characteristics which they use to identify topic are sentence initial position, discourse dependence, definacy, and the ability to establish a 'spatial, temporal framework within which the main predication holds'. Finally, topics do not necessarily have to be arguments of the main predicate (Thompson and Longacre 1978:90). Since topic does not have to be an argument of the main predicate and since the initial position adverb clause has these characteristics, it serves as a topic of many discourse blocs. This overt marking of a topic is much more complicated than the subject-topic relationship of the predictable foregrounding clauses and more highly 'marked' in the discourse. Givon states, 'A construction will be considered syntactically more complex if it departs from the routine speech-processing strategy established by the norm, that is, the neutral pattern.'

(1979:74). His analysis of the neutral unmarked pattern is the assertive declarative main clause, which excludes the adverb clause.

The semantic relations marked by adverbs in adverb clauses are often the same as those marked by conjunctive adverbs and transition expressions. That these structures are more syntactically complex may be attributed to the structural dependency which is established between the adverb clause and its main clause. This dependency is a reflection of semantic finiteness. While adverb clauses are less semantically finite than clauses joined by conjunctive adverbs, they are more finite than nonfinite adverb clauses operating in the same position. Givon states that finite clauses are more independent because the clause following the finite adverb clause is less necessary to the meaning of the finite adverb clause than the main clause following a nonfinite clause is to its meaning. Compare the examples below. In (21), although John is thought to be coreferential with he in the adverb clause, other referents are possible (Bill or another person), but in (22), John must be the agent of the nonfinite clause because of the 'same-subject' constraints which act on nonfinite clauses in order to avoid ambiguity.

(21) Before he left, John talked to Bill.

(22) Before leaving, John talked to Bill. (Givon 1983:66)

We see that the difference in syntactic complexity between the finite and nonfinite clauses on our continuum is primarily one

of finiteness, since the subject/agent of the nonfinite clause is more restricted and the tenseless event is less independent than in the finite clause.

While nonfinite and finite adverb clauses differ in degree of independence, Thompson and Longacre (1978) show the similarity of their functions in a discourse cohesion model. In this model, they label the main clause as a 'sentence nucleus' which is surrounded by 'sentence margins' which are typically filled by adverb clauses (Thompson and Longacre 1978:56). An example of how this works is given below:

(23)	Margin	Nucleus
		He A'd.

[Having A'd,

When he had A'd,

After Aing,

he B'd.

(Thompson and Longacre 1978:65)

The discourse function of each of the three subordinate clauses is the same, although two are nonfinite and one finite. Again we see that the main difference in syntactic complexity is finiteness.

The next step on the scale is the relative clause construction. Not only are relative clauses structurally dependent, they are semantically more dependent because they function to modify arguments rather than whole propositions. In other words, relative clauses share some particular referent with the proposition

in which they are embedded. They do not serve as topic for the predication as adverb clauses do, although they may modify the topic. They also lack finiteness, not because they do not have tensed verbs, but rather because the head referent is not independent and the predicated event within the relative clause is semantically dependent for relevance on the event of the main clause. Again we refer to the Copeland and Davis (1980) description of identity marker in discourse. As we have mentioned before, a speaker/writer is responsible in the Given-New contract for letting his hearer/reader know whether or not a particular is assumed to be identifiable. One way in which this is done is by the use of definite articles. If the particular is preceded by a definite article but the speaker/writer still feels that his hearer/reader might have trouble identifying the particular, he then inserts extra information about the particular following it in the form of a relative clause. Thus we see that relative clauses are a syntactically complex way of filling in the gaps left by a possible lack of context.

Relative clauses are more common in writing than in speech, and more common among adults than among children. Keenan and Schieffelin (1976a) assert that children generally do not produce relative clauses because relative clauses require a reference to a prior event or to old information about the particular. This kind of remote identifying information is difficult for children to produce (Keenan and Schieffelin 1976a:372). Relative clauses are also rare in cultures which do not have a tradition of literacy.

The next point on our scale is that of the complement clause which functions as a noun. We will restrict our discussion to complement clauses which fill the role of subject in sentences although complement clauses may also function in other noun roles such as object. The reason for focusing on the subject complement clause is its topic/comment structure which causes it to function in the discourse in a similar fashion to the adverb structure although the clauses involved are more embedded syntactically. The structure of the the complement clause is similar to that of a relative clause, but instead of modifying a noun, the clause itself functions as a noun in subject position in the main clause. This structure is, in fact, the only overt structure in English for specifically marking topic in discourse. As we see in the example below, the structure is that of topic/comment, with the topic often consisting of an event, rather than just a particular.

(24) That he is working is good.

The purpose of the complement clause, then, is to topicalize a proposition and comment on it. This clearly points to the need for syntactic complexity in English to clarify and identify the topic in English writing. A proposition as a participant is much more difficult to identify as a referent than an object or person.

The last point given is listed to show somewhat the degree to which syntactization can take place. There is a great deal of evidence showing that prepositional phrases derive from

clauses phylogenetically. In some cases, prepositional phrases in initial position serve the purpose of topic fronting in English. For example, in (25) below, 'Dwinelle Hall' is the topic of the sentence. By including it in a prepositional phrase, it may be fronted, thus providing a kind of topic/comment structure.

(25) In Dwinelle Hall, people are always getting lost.

(Chafe 1976:51).

In her definition of 'idea unit' which she uses to measure syntactic complexity, Kroll includes all kinds of sentence initial phrases set off by commas as well as what she calls 'reduced clauses', absolutes, appositives, and verbals (Kroll 1977:90). Her list also includes prepositional phrases. This supports the notion that syntactization moves toward lexicalization.

Thus, we see that a continuum of syntactic complexity reflects semantic dependency between units of discourse. As we move up the continuum in syntactic complexity, we are less able to see the intersentential nature of the relationships expressed. Although it is not within the scope of this paper to discuss all aspects of this continuum, we want to focus in particular on those intersentential relations which are realized as lexical items. These we have identified as coordinating conjunctions, conjunctive adverbs and transition expressions, and subordinating conjunctions. In the next section, we will discuss the particular semantic relations which are expressed by these connectives and the pragmatic constraints which govern their use in writing.

Lexical Cohesive Devices

Our purpose in this paper has been to show the reasons for the errors which nonnative writers make when trying to express relationships between ideas in writing and to suggest possible solutions. Through our syntactic complexity continuum, we see that connections in English can be realized in many ways ranging from simple coordination to embedded phrasal structures. The area of particular interest to us on this spectrum is that in which connections are overtly marked by a lexical device. Both Van Dijk and Halliday and Hasan call these devices 'conjunctions' and include the traditional categories of coordinating conjunctions, conjunctive adverbs, transition expressions, and subordinating conjunctions among them (Van Dijk 1977a:14 and Halliday and Hasan 1976:231).

In nearly every syntactic or semantic description of connectives examined, the writer attempts to make a list of the logical relations marked by these lexical devices. Almost all of the descriptions include a graph or chart in which the conjunctive elements are separated into groups according to some criteria. For most, these criteria are primarily based on perceived logical relationships which are either thought to hold between sentences or to be implied by the meanings of the conjunctions themselves or both. The number of categories listed ranged from four (Halliday and Hasan 1976) to

thirteen (Quirk and Greenbaum 1973). The number of categories most often used is seven although not all seven are the same in each chart.

Halliday and Hasan state that there is no one correct way to divide the categories logically since any classification is only going to emphasize some different aspect of the same reality (Halliday and Hasan 1976:238). Halliday has recently restated this idea (in personal communication) saying the categorization a linguist wants to describe should depend on what he or she wants to emphasize. He went on to say that for the purposes of cohesion, he strongly feels that their four categories are the best.

Careful comparison of other categorizations to that of Halliday and Hasan (as illustrated in Table III of Appendix A) reveals that most of the different categories used by others are in fact in the chart in Cohesion in English, but some categories are considered to be subcategories of a broader category such as additive or temporal. In other words, Halliday and Hasan interpret the four main categories as including characteristics of several different relationships. A look at Table III will reveal the relationships between Halliday and Hasan's chart of categories and other analyses.

First, if Halliday and Hasan's subdivisions within each major category are considered, nearly all of the categories used by the others are included, and many more are shown which are not in the other charts. Of the four categories used in other

charts which were not on the Halliday and Hasan chart. three (incorporation, reformulatory, restriction) involve relative pronouns, which Halliday and Hasan do not consider to be cohesive since they involve intra- rather than inter-sentential relationships.* The fourth, inclusive, is the colon (:), a punctuation device rather than a lexical device.

The divisions of categories are not as clearcut as this table makes them appear. For example, the Whitehall category of qualification includes conjunctions from the causal and temporal categories of Halliday and Hasan. The same is true of Quirk and Greenbaum's transitional category and the additive and adversative categories. However, there is at least one category listed in every chart for the major headings of Halliday and Hasan, except for that of Arapoff, who clearly states that she is primarily categorizing only sentence connectors (our conjunctive adverbs). She is also dealing only with what she calls 'logical relations' between sentences, by which means she categorizes relations typical of deductive systems of logic. This explains the lack of temporal conjunctions (Arapoff 1968: 243). Thus, for the purpose of describing the semantic relations expressed by these lexical devices, our Table III reveals

* We tend to disagree with Halliday and Hasan on this point, noting that cohesion as they define it does take place within sentences as well as between sentences. Relative pronouns do not meet other requirements for being conjunctive, however.

that Halliday and Hasan's categorization is the most complete, and would be the most helpful in constructing a semantic description of connectives for ESL students.

Looking again at our syntactic complexity chart and at our evidence from child language acquisition, it would appear that these categories should be ordered in terms of continuity and semantic dependency. It has been generally stated that the most continuous, least complex semantic relationship is additive. This is also the first relationship acquired by children. The next most continuous and next acquired relationship is temporal, followed by causal, and lastly adversative, which, because of its contrastive 'surprise' factor, is somewhat discontinuous. Thus, to be consistent with our continua, we will consider the categories to be ranked in this order, although Halliday and Hasan do not happen to have them in this order in their chart. We may assume that they do not use any particular ordering in putting together their chart, certainly not one based on phylogenetic or ontogenetic complexity.

Next, we will consider the lexical devices individually in their categories of coordinating conjunctions, conjunctive adverbs and transition expressions, and subordinating conjunctions.

The first group is that of the coordinating conjunctions. There are only a few members of this group, which is generally thought to include and, but, or, nor, so, then, and for. Some discussions point to and as the paradigm case of a coordinating conjunction, while the others are less so. There is evidence

in some languages that the word and as a connective particle evolved from an earlier verb which meant 'to join' or 'to add' (Givon 1979:261-63). In general, that is the semantic interpretation of the word, but, as we have pointed out earlier, and is capable of marking any type of semantic relationship within our categorization.

And is not the only coordinating conjunction with this multiple function. But can also mark a variety of semantic relationships although it does not have the scope of and. Halliday and Hasan assert that but contains the additive sense of and. They explain that this is why we can say and so or and then, but not and but (Halliday and Hasan 1976:237). In the adversative sense, but can be either concessive or contrastive as shown in the following two examples respectively:

(26) It was raining, but we went out.

(27) It was not snowing, but it was raining.

(Ching 1982:2-4)

But also allows a second clause to compensate for or 'dominate' a first clause, as in (28)

(28) He is short of breath, but he has very long legs.

(Ching 1982:3)

So and then can mark any causal or temporal relationship, and for can mark any causal relationship. The only coordinating conjunctions with fairly limited scope are or and nor. Or generally marks alternation, a subdivision of additive, and nor marks negative alternation.

The semantic scope of each of these coordinating conjunctions is illustrated in Table IV in Appendix A. The specific semantic descriptions are adapted from Halliday and Hasan (1976). As we can see, the semantic scope of the coordinating conjunctions is generally quite broad, especially when compared to the semantic scope of other types of conjunctions. We shall say more about this later.

We have noted before that punctuation often reflects underlying pragmatic constraints on connectives. In written discourse, coordinating conjunctions usually serve the purpose of linking two clauses within a single orthographic sentence. The coordinating conjunction is generally preceded by a comma or has no punctuation whatsoever. Thus, it is rare for a coordinating conjunction to be in initial position in a sentence. Quirk and Greenbaum (1973) note that it is possible for and and but to link a sentence with a unit comprising several sentences but it is not common. However, in speech, utterances are often begun with coordinatin conjunctions, which may serve the pragmatic functions of holding the floor in the conversation. This type of pragmatic function is unnecessary in written discourse. In general, coordinating conjunctions do not link large blocs of discourse.

That coordinating conjunctions do not function in the same way as conjunctive adverbs or transitions expressions in written discourse has been noted. Carolyn Hartnett (1982) has studied the role of cohesive ties in written discourse. She has concluded

that there are basically two discourse functions which these ties perform. One function she isolates is that of focusing and holding attention, a function often performed by additive conjunctions. The other function is what she calls manipulation, which involves higher mental processes of the writer in performing tasks such as comparison and classification. Manipulation is often marked by ties which are less frequently used and are more specific. She includes adversative conjunctions and some time-sequencing conjunctions (such as first, next, finally) in her list of manipulative ties. A tie of this type requires further development. She states, 'If every sentence in a paragraph had a different subtype of manipulative tie, the result might contain too many undeveloped tangents ' (Hartnett 1982:211).

What we see here is a contrast between the discourse functions of lexical items which are more specific in semantic meaning to those which are less specific in semantic meaning. It would appear that items which are more general in meaning, such as coordinating conjunctions, will appear more often, but serve a lesser role in the discourse. Devices such as conjunctive adverbs and transition expressions, which are more complex and specific, will be rarer, but will require greater development in the discourse text. Studies in frequency of use and our native intuition support such an assertion.

If conjunctions which are external (as Halliday and Hasan define it) focus attention, rather than manipulate discourse,

then we might expect fewer manipulative types of ties in narrative. Greenbaum (1969) and Tannen (1982) report that this is the case. In each of their studies, in narrative, they found fewer connectives of the type that manipulate argument and make logical connections in narrative than in other types of writing. As we mentioned before, most coordinating conjunctions are listed as being either external or internal by Halliday and Hasan, while conjunctive adverbs and transition expressions are generally listed as internal only. Since internal conjunctions mark a connection within an argument while external conjunctions mark a connection between external events, we see support for the idea that conjunctive adverbs are more pragmatically constrained than coordinating conjunctions.

We turn, now, to a discussion of conjunctive adverbs and transition expressions, which are different from coordinating conjunctions in terms of both frequency of use and pragmatic constraint.

First, we see that the term conjunctive adverb has its roots in the fact that conjunctive adverbs generally either are or contain an item which can function as an adverb in a clause. Quirk and Greenbaum describe a group which they call adverbials which are constituents distinct from subject, verb, object, or complement. There are three kinds of adverbials: adjuncts, disjuncts, and conjuncts. Adjuncts are integrated into the main clause to some extent as below:

(29) He usually won't eat here.

Disjuncts are not integrated, but they function to evaluate what is being said in some way:

(30) Generally, they were pleased.

Conjuncts are not integrated either, but they differ from disjuncts in that they serve to connect what is being said to what has been said before in the discourse. In the following example, the conjunct however implies that something has just been said which sets up expectations that are adversative to his not wanting to leave.

(31) However, he doesn't want to leave.

(Quirk and Greenbaum 1973:246)

This notion of conjunct includes the traditional typical examples of conjunctive adverbs (however, therefore, nevertheless, hence, etc.) as well as transition expressions (on the other hand, in other words, etc.) and adverbs such as consequently, previously, etc. which perform this connective function. We can see that although conjunctive adverbs may look like other adverbials, their semantic function of conjunction separates them from the others.

Whitehall (1951) contrasts conjunctive adverbs with coordinating conjunctions. In speech, conjunctive adverbs carry stress. In written text, they introduce paragraphs and sentences which are in association, have freer word order, and generally are preceded by semicolons in initial clausal position (Whitehall 1951:70). Most of these characteristics support the claim that conjunctive adverbs and transition expressions connect dis-

discourse units of longer lengths than just a sentence. Keenan and Schieffelin argue that certain conjunctive adverbs or transition expressions actually serve to reintroduce earlier discourse material after it has been dropped (Keenan and Schieffelin 1976b: 381).

In general, the semantic relations marked by conjunctive adverbs are the same as those marked by coordinating conjunctions, but each conjunctive adverb itself carries more specific semantic and pragmatic information. The claim that these connectives carry specific semantic information is supported by Arapoff, who shows that a relationship can be specified through the choice of a connective. The following examples from Arapoff show that the choice of connective changes the meaning of the connection between the two clauses.

- (32) (a) It rained. Therefore, the yard got flooded.
 (b) It rained. Also, the yard got flooded.
 (c) It rained. At least, the yard got flooded.
 (d) It rained. For example, the yard got flooded.

(Arapoff 1968:246)

In the first pair of sentences (a) the relationship is one of simple cause and effect. In (b), the use of the word also implies that the relationship is additive; perhaps the writer is listing a number of unfortunate events together. In (c), the second sentence seems to be providing evidence for the truth of the first sentence, while in (d), the second sentence provides an example of what happened when it rained. We see that the

use of different connectors here signals the reader to look for a specific type of connection in the context.

Arapoff does state that expressions like therefore and at least have no denotations by themselves. It is only in the context of connected text that they assume meaning (Arapoff 1968: 246). Munro and Gordon make similar claims about conjunctive adverbs. They state that there is not a 'one to one connection' between a conjunctive adverb and a given semantic relationship, but that the intended semantic relationship between sentences determines their distribution. Conjunctive adverbs are 'sensitive to the semantic relationship between sentences. They cannot be randomly sprinkled throughout texts without having definite effects on the interpretation of those texts.' (Munro and Gordon 1981:9-10). Shaughnessy comments on this in light of what beginning writers do with conjunctive adverbs. Some tend to see words such as moreover as the sources, rather than the signals, of order in the semantic/pragmatic relationship, and thus rely too heavily on them to provide order (Shaughnessy 1977:245).

We can see that conjunctive adverbs and transition expressions do not of themselves create the relationship that obtains between discourse elements. They only mark it overtly and specify it more clearly for the reader, limiting the reader's interpretive options. From the reader's point of view, the presence of a conjunctive adverb or transition expression signals him to look for a relationship consistent with the lexical marker. For instance, as Witte and Faigley put it, 'When we

encounter a conjunctive adverb such as however, we attempt to establish an adversative relationship between two text elements.' (Witte and Faigley 1981:192).

We mentioned before that conjunctive adverbs, like other adverbs, have the ability to move about in the sentence. Specifically, they may appear in initial, final and post-subject positions (Van Dijk 1977a:19). However, they are found with greater frequency in initial position; nearly twice as many appear initially as otherwise (Greenbaum 1969:78). Although many authors point out the semicolon as an appropriate punctuation mark preceding a conjunctive adverb in initial position, in one hundred and twenty-two instances noted by Greenbaum from actual text, one hundred and five were preceded by full-stop punctuation (period, question mark, exclamation point), and only five were preceded by semicolons. The rest were preceded by commas or no punctuation at all (Greenbaum 1969:27).

Quirk and Greenbaum comment on the general punctuation used with conjunctive adverbs by noting that not only are the conjunctive adverbs usually found in initial position, they are also separated from what follows by either a pause in speech or a comma in writing. If they are not in initial position, then they are separated from the rest of the sentence by commas on both sides (Quirk and Greenbaum 1973:249).

Van Dijk, as we have mentioned before, believes that initial positioning and end punctuation reflect the paralinguistic

features of speech (accent, pause, etc.). He points out that this type of differentiation is not made for coordinating conjunctions, which in speech are often phonologically assimilated into the preceding or following morpheme. By contrast, conjunctive adverbs are generally stressed in speech and carefully set off by pauses. We might assume from this that attention or focus is being brought to the connection being marked by these features.

The semantic relations marked by conjunctive adverbs are also listed in Table IV. As we can see, the scope of meaning is narrower and more limited for individual conjunctive adverbs and transition expressions than it is for coordinating conjunctions. It is interesting to note that many of the conjunctive adverbs listed here can be associated with phrases which precede prepositional phrases or relative clauses structures actually summarizing or renaming some idea or particular which is affected by the semantic content of these words. Below is a sampling of the kinds of phrasal structures we are discussing:

(33) Besides,	Besides the...
Alternatively,	An alternative to...
Similarly,	Similar to...
In the same way,	In the same way that...
Despite this,	In spite of...
Instead,	Instead of...
First,	The first...

An inventory of this list in Table IV would indicate that all but a few of these conjunctive adverbs can be restated as a phrase of this type. Among those which cannot be rephrased are terms like therefore, however, hence, thus, otherwise, furthermore, moreover, on the other hand, by the way, nevertheless, and on the contrary. It is the overuse of words and terms in this group of conjunctive adverbs in particular which often characterizes and gives ESL compositions their 'nonnative' flavor. We would theorize that these are given most often as representatives of the class of conjunctive adverbs, and ESL writers are more familiar with these than the other conjunctive adverbs. Therefore, they have more opportunities to misuse and overuse these particular lexical items. It is also difficult to define the exact relationships which these particular conjunctive adverbs mark since, unlike the other conjunctive adverbs, these have no parallel subordinate structures which correspond lexically and can be used in explanations. In the past, teachers have given a coordinating conjunction as the definition for a conjunctive adverb from this group. Although the coordinating conjunction corresponds to the same semantic category as the conjunctive adverb, it does not correspond in semantic range. For example, we say that therefore means so. So not only marks cause, but in some situations, it marks additive and temporal relations. Therefore does not mark these different relations; if an ESL student used it as though it meant so, he or she would make many misuse and overuse errors. This difference in semantic

range is true for all the conjunctive adverbs when compared to coordinating conjunctions. In addition, there is a difference in the frequency of use of coordinating conjunctions and conjunctive adverbs. This difference could also lead to errors.

For definition of conjunctive adverbs, a better direction to point students is toward the underlying semantic structure or semantic function in the discourse. This is fairly easy for those conjunctive adverbs and transition expressions which have the corresponding subordinate structures which we have already discussed, but it is less easy for our list of 'typical' conjunctive adverbs. There is historical evidence that those connectives also derived from such underlying structures. Givón states that one would expect language to become increasingly 'syntacticized' based on our continuum of syntactic complexity, with the eventual destination being total lexicalization (Givón 1979:209). Interestingly, Thompson and Longacre state that while lexical overlap through summary and tail-head linkage is the primary cohesive factor in tying text together, conjunctions can substitute for it (Thompson and Longacre 1978:95). A teacher should construct definitions for conjunctive adverbs which reflect their function much as the subordinate constructions mirror the function of the other conjunctive adverbs.

Some see the opposite relationship from the one just described as holding. That is, that subordinate clauses derive from conjunctions (Quirk and Greenbaum 1973:315). In fact, this is probably the direction from which most ESL instructors

view subordination. The reason for this is probably tied to the increasing syntactic complexity encountered in analyzing subordinate clauses. We can see a whole series of subordinate clauses, some finite, some nonfinite which semantically mark the same relationships that conjunctive adverbs do; however they do not correspond to conjunctive adverbs in pragmatic function. Let us again return to our idea that punctuation reflects writer intention by mirroring the paralinguistic features of speech. In a subordinate clause or phrase in initial position, the emphasis is not on the relationship alone, as is true for conjunctive adverbs, but on the entire contents of the clause or phrase. This clause or phrase usually includes lexical overlap as well as conjunction. Thus, there are two types of cohesive ties, conjunctive and lexical, and neither is emphasized more than the other. See in the following examples, (34) and (35), how in (34), after marks the temporal relationship to the preceding sentence and walk provides lexical overlap. In (35), only afterwards is cohesive to the preceding sentence.

(34) We went for a walk. After our walk, we were hot and tired

(35) We went for a walk. Afterwards, we were hot and tired. The punctuation reflects this emphasis. The adverb after in the adverb clause is not separated from the rest of the clause the way the conjunctive adverb afterwards is. The clause itself is separated only because it is in initial position, and then only with a comma. Once again, we see that different pragmatic constraints control the use of connective devices.

Included among subordinate connectives is a group of lexical devices usually called 'subordinating conjunctions'. This group is distinguished from the adverbs in other adverbial clauses because subordinating conjunctions consistently connect otherwise independent and finite clauses to a main clause, and because they give semantic information about the nature of the connection itself. This group, like the group of coordinating conjunctions, is generally considered to be small and includes yet, only, if, though, although, even though, while, whereas, since, because, unless, after, before, when, and where.

Table IV demonstrate the semantic relationships expressed by these subordinating conjunctions in relation to the conjunctive adverbs and coordinating conjunctions. They seem to fill very few slots in this semantic schema, but again, many adverbial constructions can be constructed which are not labeled as subordinating conjunctions but function to head adverb clauses, which correspond closely to the meanings of nearly every category listed. It is not within the scope of this paper to describe the syntax of these, but simply to mention their existence as possible alternatives to using the more highly constrained conjunctive adverbs, as we turn now to a discussion of the pedagogical implications of this functional discussion of connectives.

CHAPTER BIBLIOGRAPHY

- Arapoff, Nancy. 1968. The semantic role of sentence connectors in extra-sentence logical relationships. *TESOL quarterly*. 2,4.243-52.
- Bolinger, Dwight L. 1965. *Forms of English: Accent, morpheme, order*. Cambridge, Massachusetts: Harvard.
- Chafe, Wallace. 1976. Givenness, contrastiveness, definiteness, subjects, topics, and point of view. *Subject and topic*, ed. by Charles Li, 25-56. New York: Academic.
- Ching, Marvin K.L. 1982. Helping students to find the proper connective: Why the difficulty. Paper presented at the 33rd annual meeting of the Conference on College Composition and Communication, March 18-20.
- Copeland, James E. and Philip W. Davis. 1980. Identifiability and focal attention in an integrated view of discourse. *The Seventh Lacus Forum Series*. Columbia, South Carolina: Hornbeam.
- Givon, Talmy. 1979. On understanding grammar. *Perspectives in neurolinguistics and psycholinguistics*, ed. by Harry A. Whitaker. New York: Academic.
- Givon, Talmy. 1983. Topic continuity in discourse: The functional domain of switch reference. *Switch reference and universal grammar*, ed. by John Haiman and Pamela Munro, 53-81. Amsterdam: John Benjamins.

CHAPTER BIBLIOGRAPHY--Continued

- Greenbaum, Sidney. 1969. Studies in English adverbial usage. Coral Gables, Florida: University of Miami.
- Halliday, M.A.K. and Ruqaiya Hasan. 1976. Cohesion in English. London: Longman.
- Halliday, M.A.K. 1984. Personal interview on the occasion of the Second Rice University Symposium in Linguistics and Semiotics. February 10.
- Hartnett, Carolyn G. 1982. How cohesion expresses thinking. The journal of the Linguistic Association of the Southwest, 5,3-4.210-15.
- Hopper, Paul J. 1979. Aspect and foregrounding in discourse. Discourse and syntax: Syntax and semantics, 12, ed. by Talmy Givon, 213-42. New York: Academic.
- Keenan, Elinor Ochs and Bambi B. Schieffelin. 1976a. Topic as a discourse notion: a study of topic in the conversations of children and adults. Subject and topic, ed. by Charles Li, 335-84. New York: Academic.
- Keenan, Elinor Ochs and Bambi B. Schieffelin. 1976b. Foregrounding referents: A reconsiderations of left dislocation in discourse. Proceedings of the Berkeley Linguistic Society 2:240-57.
- Kroll, Barbara. 1977. Combining ideas in written and spoken English: A look at subordination and coordination. Discourse across time and space, ed. by Keenan and Bennett, 69-108. Southern California Occasional Papers in Linguistics. New York: Academic.

CHAPTER BIBLIOGRAPHY--Continued

- Munro, Allen and Lynn Gordon. 1981. Intersentential semantics and text type. Unpublished manuscript.
- Nystrand, Martin. 1982. Introduction. What writers know: The language, process, and structure of written discourse, ed. by Martin Nystrand, 1-30. New York: Academic.
- Ong, Walter J. 1982. Orality and literacy: The technologizing of the word. London and New York: Methuen.
- Quirk, Randolph and Sidney Greenbaum. 1973. A concise grammar of contemporary English. New York: Harcourt Brace Jovanovich.
- Shaughnessy, Mina. 1977. Errors and expectations. New York: Oxford University.
- Thompson, Sandra A, and Robert E. Longacre. 1978. Language typology and syntactic fieldwork. Unpublished manuscript.
- Thompson, Sandra A. 1983. The position of purpose clauses in English discourse. Paper presented to the Fall Linguistic Forum Series, UTA. November 9.
- Tyler, Stephen A. 1978. The said and the unsaid: Mind, meaning, and culture. New York: Academic.
- Van Dijk, Teun A. 1977a. Text and context: Explorations in the semantics and pragmatics of discourse. London: Longman.
- Whitehall, Harold. 1951. Structural essentials of English. New York: Harcourt, Brace and Co.
- Winterowd, W. Ross. 1976. Linguistics and composition. Teaching composition: Ten bibliographical essays, ed. by Gary Tate, 197-222. Fort Worth: TCU.

CHAPTER BIBLIOGRAPHY--Continued

Witte, Stephen P. and Lester Faigley. 1981. Coherence, cohesion, and writing quality. College composition and communication. 32.189-204.

Zandervoort, Reinard Willem. 1965. A handbook of English grammar. Englewood Cliffs, New Jersey: Longmans-Prentice-Hall.

CHAPTER V

PEDAGOGICAL IMPLICATIONS

Having completed our theoretical discussions of connectives, we will now focus on certain of their attributes, and implications for the teaching of English composition. By way of review, we note that connectives are part of a larger system of connection which includes many ways of expressing relationships between ideas and which ranges in syntactic complexity from simple coordination to tightly bound embedded phrases. We have observed that the connectives themselves do not create a connection. Due to the fact that semantic relationships already exist between the ideas being connected, connectives simply mark the nature of the connection overtly. Coordinating conjunctions are more semantically general than conjunctive adverbs, transition expressions, and subordinate structures. Conjunctive adverbs and transition expressions have more pragmatic constraints on their use than coordinating conjunctions and subordinate structures in that they appear to focus attention on the specific relationship and they appear to manipulate and direct the development of the discourse to a greater extent. Of the lexical devices used in connection, subordinating conjunctions mark the most complex syntactic structures.

We also noted earlier that syntactic complexity is characteristic of written language, and that in general, this syntactic

complexity (also known as 'syntactic maturity') has been recognized by composition teachers and rhetoricians as a desirable attribute of written English. As early as the sixties, having noted the need to increase the syntactic maturity of student writers, many rhetoricians conducted studies to determine the relevance of grammar teaching to improvement in writing skills. For example, Bateman and Zidonis (1966) claimed that their statistical analysis of native students' writing after the students had studied TG grammar showed increased ability to produce well-formed sentences of greater structural complexity (Bateman and Zidonis 1966:39).

However, O'Hare did a study in 1971 which he feels argues against the need for grammar study by native students. His study revealed that it was the test tool itself, rather than the grammar study which improved the students' writing. He showed this by using the Bateman and Zidonis test method, now commonly known as 'sentence combining', but unlike them, he gave students cues of possible ways of combining sentences that did not require them to know the grammatical terms for those structures. For example, where Bateman and Zidonis had used a symbol such as PrP to signal students to use a present participle, O'Hare used a symbol such as ING. O'Hare's students showed as much if not more improvement in syntactic maturity, although they had not had the grammar study of the Bateman and Zidonis group (O'Hare 1971).

After O'Hare's report was released, sentence combining as a method for teaching composition spread rapidly. Many books, workshops, etc. were developed in response to the strong claims made about the effectiveness of sentence combining in increasing sentence length and complexity in composition skills.

Sentence combining appeared in the ESL classroom at about this time. Today, most ESL composition textbooks include some form of sentence combining exercise. Unfortunately, in the experience of this teacher, these exercises often do not achieve their intended goal of improving student writing for ESL students. Because the original idea behind sentence combining was that native students could use their native intuition to combine ideas, exercises designed in this same way fail to work for ESL students, who do not have this intuition. An example of the kind of sentence combining exercise found in advanced ESL textbooks (Johnston and Zukowski/Faust 1981) is given in Appendix B along with samples of some of the papers students wrote when doing this exercise. The sample papers are labeled by the native language of the student.

First, note that the instructions for this exercise encourage both subordination and coordination, and briefly describe when to make the distinction: coordination for parallel structures, and subordination for support ideas. Then a list of possible connectors for each type (coordinating conjunctions, conjunctive adverbs, and subordinating conjunctions) is given. A look in Appendix B at the papers submitted by students reveals

that they did not understand enough from these instructions alone to avoid making errors of connection. Thus, a teacher using this text would need to provide additional explanation before assigning this exercise.

The three error types mentioned in the introduction (underuse, misuse, and overuse) are among those made by the students in this sample. The native Arabic speaker commits errors of underuse in numbers (1) and (5). In (1), the completed, combined sentence contains two occurrences of the word technology, and a pronoun in the subject position of the second clause which anaphorically refers to the subject of the first clause. This provides both reference and lexical cohesion ties between the two clauses which are now one sentence. The use of such cohesive ties is for the purpose of increasing the identifiability of particulars. The use of these types of devices signals to the reader that the particulars should be more difficult to identify than they really are. English allows deletion of a subject in a second clause when the particular is the same as the subject of the first clause. Using coordination here strikes the reader as being too heavily weighted with identity markers. Both the Korean and Ibo speakers used a similar structure. However, the German and Malay speakers showed greater syntactic complexity by using structures which would be higher on the continuum of semantic dependency. Both of their answers seem more natural than those of the Arabic, Korean, and Ibo speakers. In the German example, only the word technology is anaphorically

referred to by the pronoun it. The Malay speaker eliminated all references to particulars in the second clause by creating a prepositional phrase.

The type of underuse of syntactic complexity exhibited by the Arabic, Korean, and Ibo speakers (underuse from an English perspective) may well characterize the writing of speakers of languages which have a lower degree of literacy in their culture than an English speaking culture. Ann Johns has observed that her Arabic and Farsi students in particular seem to use coordinating conjunctions when a more complex element seems more appropriate (Johns 1980:66). Her observations are supported by those of other teachers in ESL composition classrooms of their students from cultures with less literacy.

Misuse was another error type often found in these papers. In misuse, the student failed to understand the nature of the semantic relations which existed between the sentences as they were presented in the exercise, and so used a connective element which signaled an incorrect semantic relationship. Examples of this can be found in the Korean speaker's paper in numbers (2), (3), (6), and (7); in the Arabic speaker's paper numbers (4) and (7); in the German speaker's paper numbers (2), (4), and (6); and in the Malay speaker's paper number (3). Possible reasons for these problems are of two kinds. Either the students knew the relationships being expressed but did not know a lexical device or subordinate structure to mark the relationship clearly, or they could not determine the relationship between the

sentences which was intended by the author of the original text.

Number (4) of this exercise seemed to cause problems for several of the students. It would appear that the students did not recognize the semantic relationship intended by the original author. The three sentences as they are listed below appear to be basically parallel in semantic relationship. All three sentences describe a positive aspect of the geodesic dome as a technological breakthrough for architecture.

(36) The geodesic structure is strong.

It is inexpensive.

It is easily expandable.

Three of the writers tried to mark an adversative relationship between the sentences. Two tried to mark a causal relationship. Only one, the Malay speaker, recognized the coordinate nature of the relationships and presented them in this way. It is possible for a causal or adversative relationship to hold between these sentences, but there is not enough information present in the text to make this clear. Only the original author could know what other relationships could hold between these sentences. This problem of interpreting the intended semantic relationships in such an exercise can be caused both because of lack of textual information and lack of contextual knowledge. That ESL students lack shared context with the native writers of such exercises must be considered. When students are working with their own writing, this problem of interpretation does not arise. Then the problem is clearly one

of choosing the correct lexical device to mark a desired relationship. If our goal is to teach students to improve their use of connectives in their own writing, a method which uses student writing in context to teach connectives and subordination would be preferable to exercises which require them to second guess the intentions of the original writer. We will address the issue of what type of exercises will accomplish this goal later.

The third error type we called overuse. In these exercises, it is more difficult to measure overuse since this error is one of discourse. However, some possible sources of overuse can be proposed. For one thing, we find more occurrences of conjunctive adverbs in these exercises than would be normal for the same number of sentences in a discourse paragraph. For instance, the Korean speaker used four conjunctive adverbs in the eight sentences and the Ibo speaker used three. All of the conjunctive adverbs which were used by any of these students could be found in the list of suggested connective devices in the instructions to this exercise. It is doubtful that the writers of the exercise intended for the students to use all and only their suggestions in this one exercise. However, there is evidence that given a list, students will try to use the items in the list when carrying out exercises.

This evidence was seen in another study (Leavelle 1983) in which we attempted to compare differences in the frequency with which native and nonnative speakers use conjunctive adverbs.

Students were given a variety of discourse types and asked to fill in the blanks with conjunctions. Lists arranged by semantic type were provided. Instead of showing differences, both the native and nonnative students used about the same ratio of conjunctive adverbs to coordinating conjunctions. That they were trying to use as many of the conjunctions from the lists as possible was evidenced by the fact that the students used a much higher percentage of conjunctive adverbs than the original writers of the discourses, which ranged from a written description of a date by a teenager to a scholarly selection from a linguistic journal. In addition, native speakers of English used such combinations as additionally consequently (as opposed to and so) indicating a desire to use as many of the terms in the list as possible. It is possible that the ESL writers who completed the exercise given in Appendix B also were trying to use all the items suggested in the instructions whether or not they found relationships which fit those items to hold between the sentences in the exercise.

We have stated before that punctuation is an indicator of pragmatic constraints on the use of various connectives. As we again see in Appendix B, the students who completed this exercise revealed through their errors in punctuation either a lack of understanding of the pragmatic constraints regarding connectives or a lack of knowledge of the punctuation system. Some used conjunctive adverbs punctuated in the same way that coordinating conjunctions would be punctuated in the same

position. This can be seen in the Ibo speaker's paper numbers (2), (3), and (4); the German speaker's paper number (2); and the Malay speaker's paper number (8). There was other evidence of misunderstanding, such as the Arabic speaker's use of and after end punctuation in number (7), and the Korean speaker's use of a comma following a sentence initial subordinating conjunction.

Finally, we have seen evidence that in general, ESL writers use subordinate structures less than coordinate structures, and that they appear to have more difficulty with subordinate structures. We might argue that exposure to English or a language with a tradition of literacy lessens this problem since the Malay speaker had studied English since first grade, and the German speaker speaks a language which not only has a literate tradition itself, but is also in the same language subfamily as English. Both of the papers written by these two have more subordination and fewer connective errors overall than the papers of the others. The Korean speaker and the Ibo speaker attempted some subordination, but had errors involving the structure and placement of such structures as relative clauses. These errors can be seen in the Korean speaker's numbers (3) and (5), and the Ibo speaker's numbers (6) and (7). The Arabic speaker did not have any errors involving subordinate structures, but he attempted less subordination. Of course in determining the source of problems in use of subordination, we must also consider individual proficiency as a factor.

What these results suggest is that this type of sentence combining exercise demonstrates two problems. Either there is a lack of contextual information in exercises of this type, or students lack a knowledge of the range of lexical and grammatical structures which can mark relationships, and an awareness of the appropriateness of various structures to various discourse situations. This type of exercise by itself did not necessarily improve the students' writing.

Ching points out some of the fallacies in the underlying assumptions of the type of exercise or explanation shown in Appendix B. He states, 'We as teachers use these connectives properly because of our tacit or intuitive understanding of the semantic and syntactic system of the connectives--not because of the explicit textbook explanations which we give to students.' (Ching 1982:2). He continues by saying that teachers seem to be incapable of giving adequate explanations for the meaning of various connectives. They tend to use terms such as 'addition', 'example', 'cause', 'effect', etc. (Ching 1982:1). His observation of the limited explanations given students of the meanings of connectives can also be observed in textbooks where groups of conjunctive adverbs are labeled together as meaning 'and' or 'but'. As we mentioned before, this type of explanation is wrong in terms of focus. Rather than specifying the meaning expressed by a particular connective, this labeling tends to overgeneralize both the meaning and use of a connective which is actually more specific semantically and constrained pragmatically than the coordinating conjunctions they are equated with.

A better direction would be to move toward definitions which reflect the semantic function being carried out by individual connectives either by comparing them to semantically parallel subordinate structures (finally means 'the final idea of all those we have been discussing'), or by describing the exact logical function being carried out. For example, however can be defined to mean 'what follows is contrary to the expectations raised by what has preceded.' (Halliday and Hasan 1976:250).

When students are taught the meaning of connectives in this way (by equating them with coordinating conjunctions), the students tend to interchange coordinating conjunctions and conjunctive adverbs freely, thereby coordinating some clauses where use of a conjunctive adverb or subordinate structure would have been more appropriate.

ESL students need more explanation than do native speakers of the specific relationships that can be expressed by various connectives. They have three specific areas of need: they lack cultural knowledge which is necessary to supply the context for interpretation, they lack a knowledge of the specific kinds of logical relations expressed by the variety of connectives in English, and they lack knowledge of the pragmatic constraints that control when to use or not use explicit marking of a connection.

The lack of interiorization of literacy affects a student's ability in terms of the types of logical relationships that English can mark. As Palmer points out, languages do not naturally organize around analytically logical lines. This type of logic

is primarily found in genres such as expository and argumentative writing. Both nonnative speakers and native speakers who have had limited exposure to these genres have trouble with expressing these relationships and have to be taught. ESL writers may experience greater difficulty because of their lack of exposure to the range of syntactic complexity including subordination by which these relationships may be expressed. These students need more help with the more complex subordinate structures, many of which are preferable alternatives to both the general coordinating conjunctions or pragmatically constrained conjunctive adverbs. Again, subordination is found in a greater degree in the literate languages than in languages with an oral tradition. Unless taught to use subordination, many students will avoid it. As Ching points out, and as our discussion of semantic dependency and syntactic complexity implies, effective combining of sentences demands knowledge of strategies of reduction and deletion as well as connection (Ching 1982:12).

Another problem that ESL writers share with inexperienced native writers is the problem of 'staying with' a line of thought to its logical development, or that of properly elaborating on an idea. Shaughnessy observes that this is particularly characteristic of 'basic writers', who write using oral strategies rather than written (Shaughnessy 1977:230). Wrase, an ESL teacher, responds to this observation by noting that his lack of development and connection are also characteristic of ESL writers (Wrase 1984:6). It is characteristic of oral strategies

of communication to assume more shared knowledge by the hearer because of rich context and immediate repair. When these strategies are transferred to writing, students may assume too much about their reader's knowledge and not provide enough context. Thus, there is a lack of development. If a student writer introduces a point in his or her writing with a manipulative tie such as a conjunctive adverb, and then fails to develop it, the feeling of the reader may be that the connective has been used improperly when the real problem is a lack of development.

We can see that sentence combining by itself is not as effective a tool for teaching ESL writers as it is for teaching the native writers for whom it is designed. Sentence combining relies heavily on the intuition which native speakers possess about combining strategies. ESL writers require clear explanations of semantic relations and their syntactic realizations. Sentence combining exercises do not always make clear the intended relationships between sentences (many of which depend on shared cultural knowledge and must be inferred). Sentence combining also fails to provide students with practice in the development of ideas. As Wrase points out, 'Many current books that contain sentence combining exercises using coordination and subordination never take the important step of applying the exercises to students' own writing ' (Wrase 1984:36).

Still, there is a place for carefully designed exercises in sentence combining in the teaching of ESL composition. Posner (1981) recommends sentence combining as a possible method for

teaching beginning ESL students the rudiments of writing. At the beginning level, the structures used to combine would be highly controlled; having the basic structures and vocabulary provided in the kernel sentences allows both the teacher and the students to concentrate on the particular grammatical form being used in the combination (Posner 1981:1).

Annette Claycomb, in a talk on teaching cohesion, proposed sentence combining as one of several activities, including sentence ordering and strip stories, for teaching cohesive devices, but pointed out that the method of combining should be clearly given for each group of sentences (Claycomb 1984).

Over the last ten years, Judith Wrase has developed a series of activities to teach connection to ESL writers. Her methods include sentence combining as only one of several activities. Generally, she begins her program by giving her students the three paragraphs found in Appendix C and asking them to choose the one which reads the best. Usually, the students agree that the third paragraph, which is much more syntactically complex than the other two, reads the best (Wrase 1984).

She follows this with a series of activities which teach students how to embed words (such as adjectives) in sentences, to embed that clauses, to use participles, to subordinate with subordinating conjunctions, and to use sentence connectives and transitions. Teaching these strategies together helps students to see how the different ways of bringing ideas together relate semantically but differ pragmatically. It also provides stu-

When Wrase teaches the use of specific connecting elements, she uses two different 'fill in the blank' activities. In one activity, the student chooses an appropriate subordinating word or words to put in a blank, thereby subordinating one clause to another. Students are then asked to identify the main clause.

(37) _____ he played basketball, he felt good.

(38) They stayed home _____ it was snowing.

(Wrase 1984:7)

In another activity, the student is given the subordinate clause, but must fill in the main clause or he is given a subordinating conjunction and main clause and is asked to fill in the rest of the subordinate clause.

(39) Because we are from Vietnam, _____.

(40) After _____, Sue and I talked about money.

(Wrase 1984:7)

This activity is similar to one for teaching the nuances of meaning of various conjunctive adverbs suggested by Gaye Childress of the North Texas State University Intensive English Institute (personal communication). In this activity, students are given one sentence and a conjunctive adverb or coordinating conjunction. They are asked to finish the second sentence, and then discuss their reasons for completing the sentence in the way they did.

(41) John ate lunch. Nevertheless, _____.

John ate lunch. In addition, _____.

John ate lunch. However, _____.

When Wrase does move into sentence combining activities after many activities of the sort just mentioned, she begins with short, choppy sentences. She points out that in all these activities, punctuation must be emphasized. Students are asked to develop punctuation rules inductively as they see various structures used in context. After using sentence combining exercises such as the one below:

(42) I bought a vacuum cleaner.

It was new.

I bought it at a store.

(Wrase 1984:7)

Wrase uses equally short and choppy sentence combining, but in a larger discourse context. Eventually, she moves to combining in context sentences of greater length and complexity similar to the types of sentences students would find in their own writing.

(43) Last week the Morrells had a visitor at their house.

They didn't know him very well.

(Wrase 1984:7)

The results of the sentence combining exercises are publicly (but anonymously) posted, not only to show the variety of possible combinations, but to give opportunities for free discussion among the students.

At this point, students are ready to begin applying these activities to their own writing. According to Wrase, this is the function of revision, an activity often avoided in the

composition classroom. She states that it is teacher emphasis on content rather than form which causes students to revise and refine connections between ideas (Wrase 1984:6-8). Wrase is not alone in her opinion that revision is the most direct application of sentence combining. Mellon, for instance, also states that it is the best use of sentence combining (Mellon 1981).

Carolyn Boiarsky lists eleven reasons for revising. These include altering form, organizing information, creating transitions, deleting information, expanding information, emphasizing information, subordinating information, creating immediacy, improving language usage, and cleaning up mechanics. Although some of her reasons seem to overlap each other, her point that more reasons for revising involve content than mechanics is well taken. According to Boiarsky, most students primarily concern themselves with the last three activities, all of which deal with mechanics. She strongly feels that the reason students do this is because they believe that teachers are primarily concerned with mechanics. She believes that the emphasis in teaching composition has definitely not been on revision of ideas and cohesion, a lack which has kept students from reaching their potential as writers (Boiarsky 1981:7).

For ESL writers, revision as a refining process for teaching connectives is especially good because, unlike with sentence combining exercises, the students themselves know what the intended relationships between ideas are. They also can be encouraged to develop, expand, and support undeveloped tangents.

Johns feels that teachers can help students by correcting some papers only for discourse type errors. This will encourage students to concentrate on revising for content as well as for mechanics (Johns 1980).

Another method which is suggested for helping advanced composition students to improve their use of connectives in writing is called reformulation. In this method, native students are asked to rewrite nonnative speakers' papers, trying to keep the basic idea units intact rather than writing a completely different paper. The nonnative writer then compares the two papers to see what changes the native speaker has made. From this, he or she may gather insight into the kinds of structures which are preferred by native speakers. Problems with this method include the possibility of getting a native writer who is actually weaker than the nonnative writer in ability, and the amount of time involved (Cohen 1983:4).

Another method is to have students write three different drafts of one introduction to a paper. Then the student compares his own variations and chooses the best structures in each (Boiarsky 1981:10).

All of these activities can be very good in improving writing proficiency. However, it is clear that the best writers will be those who have been made aware of the differences in writing and speaking throughout their ESL study, and who have been taught connectives as part of a larger system of syntactic complexity and semantic cohesion.

In addition to classroom activities which a teacher might implement, a good textbook can aid in teaching connectives. Of course, in choosing a textbook for a course in ESL composition, many factors have to be considered in addition to how connectives are taught. It is important, however, to consider carefully the presentation of connectives since this often reveals a lot about the philosophy of the textbook writers regarding meaning and context in discourse, and cohesive ties as elements of coherence and unity.

A composition textbook in ESL should, of course, teach connectives as strategies of cohesion in discourse. In the specific treatment of connectives, the approach should deal with coordinating conjunctions and conjunctive adverbs as being different from each other semantically and pragmatically. A good approach would be to equate subordinate structures and conjunctive adverbs semantically and use dependency and punctuation to differentiate them as separate kinds of pragmatic structures. The specific activities should avoid the type of 'fill in the blank' activities which fail to require the student to come to terms with the nuances of meaning of various conjunctions. Sentence combining itself is not a bad activity, but it should give students the necessary context and explanations for them to be successful in establishing clear connections through coordination and subordination. The best texts will be those which bridge the gap between the activities in the book and the student's own writing. Activities which encourage revision of writing for content as

well as mechanics aid in this. Finally, the text should introduce a large variety of connectives and relate these semantically to the rhetoric in which they will most likely be used. For example temporal relation connectives can be introduced in a rhetoric section on narrative or process.

Most composition texts in ESL today do recognize the need for including units or some information on connectives and transitions in writing. Not all present these in the same manner. One popular text, Johnston and Faust's Keys to Composition (1981), includes a unit under their section labeled 'Style' called 'Transitional Devices'. Under 'Mechanics' there are sections for subordination using adjective clauses, noun clauses, and adverbial clauses; and there is also a section on 'Sentence Joining Problems'.

There are, however, some problems with this text. Although they include sentence combining exercises in every section of their 'Rhetoric' section, those exercises are all of the type described earlier in this chapter and found in Appendix B. The basic philosophy they exhibit in their section 'Transitional Devices' is that transitions make writing smoother by 'organizing it.' They note that writers use more transitions than speakers, but do not specify particular types. The transition words and expressions, including coordinating conjunctions, conjunctive adverbs, transition expressions, and subordinating conjunctions are arranged in seven categories labeled agreement ('and'); opposition and limitation ('but'); cause, effect, purpose ('for'

when it means 'because'); condition and qualification (qualifiers); support (examples); time; and summarizing. The activities following each of these include sentence combining, 'fill in the blank' in clauses and paragraphs, and ordering. In this section on transitional devices, little distinction is made among the types of punctuation required for the different kinds of connectives. No semantic distinction is made between coordinating conjunctions and conjunctive adverbs, which are equated semantically. Overall, this text is an improvement over what has been on the market in the past in terms of teaching cohesion in discourse, but in this writer's opinion, it leaves much to be desired.

Another text, Refining Composition Skills by Regina Smalley and Mary Ruetten Hank (1982), has an ongoing system throughout the book by which coherence is taught in terms of transition expressions and subordination. These are semantically related to the various rhetorical chapters. For example, under narrative, the section on coherence reviews adverbial clauses of time; under description, adjective clauses; under comparison and contrast, transitions for comparison and contrast; and so on. Each group includes several different exercises, usually involving sentence combining, 'fill in the blank' in sentences or paragraphs, and reduction of coordinate structures to more syntactically complex structures. In the final chapter is a section called 'Coherence Review,' which lists ways of producing coherence in a text. The list includes repetition of key words, synonyms and pronouns; coordinating conjunctions and correlative

conjunctions; subordinate clauses, and transitional words and phrases. In addition, this section details the various subordinate clauses and classifies transition words and phrases in categories labeled chronological order, example, addition, conclusion, and comparison/contrast.

In general, this book seems to deal very globally with the concept of connection as one of many cohesive devices and treats carefully the various semantic nuances marked by conjunctions. There are, however, some difficulties with this text. For one thing, although the distinctions between the various types of conjunctions are made, and the type of punctuation for each is given, it is in the end the responsibility of the teacher to make sure that students know the differences between structures like in contrast to and in contrast, and that the students can use and punctuate these correctly. Not all the exercises make this clear.

There is another problem with the exercises which can be a pitfall for the teacher who is not aware. Many of the exercises require little or no thought on the part of the student. These exercises tend to be somewhat mechanical. Because of the ease of grading these types of exercises as compared to grading exercises which require thought and possibly class discussion, many teachers assign only the exercises of the mechanical type. Experience again shows that there is a gap between mechanical manipulation of syntactic structures and application to student

writing. In order to help the student see the application to his own writing, teachers need to make an effort to use and discuss the more difficult exercises and also to add revision type activities which relate to each section. Overall, however, this book presents what appear to be nice features for teaching cohesion through connection.

In addition to the above popular texts, the author looked at five other newly released texts for advanced composition as representative of what is on the current market. It is interesting to note that, in general, these tend more toward viewing connectives as part of a larger system of cohesion and as functions of revision rather than simply first draft composition.

Lea Lane's book, Steps to Better Writing: A Guide to the Process (1983), lists connective words and expressions under a section called 'Revise.' In this section she states, 'Use transitional words between sentences (and between paragraphs) to show the connections and relationships between them' (Lane 1983:91). Her list of connectives does not include coordinating conjunctions but does include some subordinating conjunctions. The conjunctive adverbs and subordinating conjunctions are not differentiated in terms of function. In this same section, she encourages the use of demonstrative pronouns, other anaphora pronouns, repeated words, phrases, or synonyms, and transitional paragraphs to increase unity in the revision process (:92). In general, she sees connection as part of a larger

system, but her explanations are weak in their treatment of semantics and seem aimed primarily at native speakers.

In their book, Connections: A Rhetoric/Short Prose Reader, Daniel Brown and Bill Burnette use diagrams to show how lexical repetition and substitution in the topic sentences from the thesis statement increases the cohesion in an essay (:78-9). They list various paragraph transitions of the type that reinforce cohesion. These include repetition of words and concepts, words that signal sequence, such as second or third, words that point back, such as this or all of the above, words that show logical relationships, such as however, and parallel opening structures, such as In normal times ... In bad times ... Examples of each of these were demonstrated between paragraphs in the context of a written discourse (:80). They also deal specifically with connectives in a separate section (:31-8). They classify connectives as being of four types: similarities/differences, cause and effect, logical connections, and generalizations. Their demonstration of cohesion in larger discourse structures is excellent, but they do not deal with the semantics of individual connectives.

Judith Ann Johnson's Writing Strategies for ESL Students (1983), a book which, because of its ESL emphasis, tends to have a more detailed description of the syntactic structures involved in connection, does not, however, deal with the semantics of connectives at all. The book is based on a primarily structural

approach. Transition expressions are described as those introduced to show 'proper relationships between rhetorics.' For example, before and after would be used to connect elements which are chronological (:96). And is described as a word used to connect elements which are 'functionally identical' (:61). Adverbial clauses modify verbs, answering questions of when, why, or how 'it' is done. Adverbial clauses are dependent because they begin with a subordinating conjunction (:65). Those elements which modify nouns include restrictive and nonrestrictive relative clauses, introductory adjectival and participial phrases, and appositives. The exercises offered here are primarily two-sentence combining exercises (:68-71). This book takes a very traditional approach to connective structures in English. For these reasons, the writer would not recommend it for the teaching of connectives.

Contemporary Perspectives: An Advanced Reader/Rhetoric in English (1984) by Robert Saitz, Maureen Dezell, and Francine Steiglitz contains a variety of activities for teaching connectives. Instructions for activities include emphasis on students' being careful of their punctuation and being prepared to defend their answers. Activities include 'fill in the blank', sentence combining using a list of conjunctive adverbs and subordinating conjunctions, and combining sentences into paragraphs using transition expressions. In a separate section, the transitions are listed along with a particularly good sample of the kinds of functional descriptions of the meanings of connectives which

we are advocating. Below is a list of the descriptions which they give:

- to indicate that what follows is similar to what precedes
 - to indicate a contrast
 - to indicate an example or illustration
 - to indicate a relationship in time
 - to indicate that what follows is a result of what precedes
 - to indicate that what follows is additional information
 - to indicate that what follows is to be expected
 - to indicate that what follows is a variation of what precedes
 - to indicate that what follows intensifies what precedes
 - to indicate a summary or conclusion
 - to indicate sequences
- (:245-47).

They also encourage other forms of cohesion, such as repetition, synonyms, pronouns, and demonstratives. The explanations of the semantic function of various connectives are better than those in most of the books designed primarily for native or nonnative students either one. The exercises are fairly standard and would require supplementary activities to demonstrate the application to the students' own writing.

Finally, we examined A Practical Guide for Advanced Writers of English as a Second Language (1984) by Paul Munsell and Martha Clough. Like the other ESL texts, this has 'fill in the blank' from a list exercises and sentence combining activities. In addition, throughout the book, they use an editing activity which consists of student written essays marked as though by

a teacher. The students are to make corrections and rewrite these paragraphs or essays. Not only are the essays marked for various mechanical errors, but they are also marked for content. Students are told to combine ideas, add transitions, and give examples. This type of activity seems particularly useful for providing direct transition to the revision of the student's own writing. The book also contains an appendix on transition expressions (:297-9). The point is made here that transition expressions are not used in every sentence but are important for providing links between ideas. Each transition expression is presented in the context of a correctly punctuated sentence under the general headings of Chronology/Process, Comparison/Contrast, and Cause and Effect. In each group, special emphasis is given to expressions which are commonly misused. For example, the cause and effect section contrasts expressions which introduce effect, such as as a result, consequently, and therefore with expressions which introduce a cause, such as because, since or as. These explanations provide students with some opportunities to compare and contrast nuances of semantic meaning of various transition expressions. The editing activities provide a good link between sentence combining and student writing. Altogether, this was one of the better texts examined for teaching connectives in our opinion.

In conclusion, after reviewing the treatment of connectives historically, we have seen that the traditional formal analysis

has failed to describe connectives in an adequate manner, especially for application to composition teaching. We have seen that the more recent functional grammars have done a better job of describing the semantic and pragmatic aspects of connectives. In particular, they show that connectives are part of a larger system of connection involving semantic dependencies realized in a variety of syntactic structures. They also have revealed some of the differences between spoken and written language, differences which include the variety and frequency of connective use. Lastly, we see that the various connectives function differently in discourse and have different ranges of semantic meaning.

Methods of teaching composition to ESL students need to reflect this functional analysis. Teachers, like linguists, need to look beyond the boundaries of the sentence for explanations of connective use. Connectives should be taught as part of a total system which includes different levels of syntactic complexity. Within this system, subordination can be described in its connective function and encouraged as a means to greater syntactic maturity

A teaching method such as that used by Judith Wrase would be particularly helpful in that it provides an integrated system in which ideas are introduced gradually and with clear explanations. An emphasis on punctuation as it relates to pragmatic differences among the various connectives is important in helping students use these correctly. In addition,

the semantic differences between coordinating conjunctions and other connectives should be known and explained. Definitions should reflect not only the meaning, but the discourse function of individual connectives.

Finally, a teacher should use methods which help the student apply their knowledge of connectives to writing. The best possible method for this is probably revision of student writing for content and coherence as well as sentence mechanics. The purpose of connectives, as of all the components of language, is to communicate successfully the thoughts, intentions, and social messages of the writer/speaker to the reader/hearer. Nystrand (1982) states, 'The phenomenon of meaning is, in short, the mind's transformation of particulars into a coherent organized whole.' The creation of meaning is a 'eureka' type of experience. This is what the writer is trying to permit the reader to achieve (Nystrand 1982:20). For those of us who teach ESL students, the goal is to allow them to create a whole and meaningful picture for their readers out of the bits and pieces of the English language. A better knowledge of connectives will contribute to their achieving this.

CHAPTER BIBLIOGRAPHY

- Bateman, Donald and Frank Zidonis. 1966. The effect of a study of transformational grammar on the writing of ninth and tenth graders. Champaign, Illinois: NCTE.
- Boiarsky, Carolyn. 1981. The eleven functions of revision. Paper presented to the 32nd annual meeting of the Conference on College Composition and Communication. Dallas. March 26-28.
- Brown, Daniel and Bill Burnette. 1984. Connections: A rhetoric/short prose reader. Boston: Houghton Mifflin.
- Ching, Marvin K.L. 1982. Helping students to find the proper connective: Why the difficulty. Paper presented to the 33rd annual Conference on College Composition and Communication. San Francisco. March 18-20.
- Claycomb, Annette. 1984. Presentation of a workshop on cohesion in English. Intensive English Language Institute, North Texas State University. February 28.
- Cohen, Andrew D. 1983. Reformulating compositions. TESOL newsletter. 17,6.1,4-5.
- Johns, Ann M. 1980. Preventing global discourse errors: problems and approaches to ESOL writing. CATESOL occasional papers, 6.65-70.
- Johnson, Judith Anne. 1983. Writing strategies for ESL students. New York: Macmillan.

CHAPTER BIBLIOGRAPHY--Continued

- Johnston, Susan S. and Jean Zukowski/Faust. 1981. Keys to composition: A guide to writing for students of English as a second language. New York: Holt, Rhinehart and Winston.
- Lane, Lea. 1983. Steps to better writing: A guide to the process. New York: St. Martins.
- Leavelle, Cynthia. 1983. Conjunctive elements as signals of style. Unpublished manuscript.
- Mellon, John C. 1981. Can sentence combining play a role in the revision process? Paper presented to the 71st annual meeting of NCTE. Boston. November 20-25.
- Munsell, Paul and Martha Clough. 1984. A practical guide for advanced writers in English as a second language. New York: Macmillan.
- Nystrand, Martin. 1982. Introduction. What writers know: The language, process, and structure of written discourse, ed. by Martin Nystrand, 1-30. New York: Academic.
- O'Hare, Frank. 1971. Sentence combining: Improving student writing without formal grammar instruction. National Council of Teachers of English research reports, 5. Urbana, Illinois: NCTE.
- Palmer, J.D. 1980. Discourse, register, and the teaching of writing: An orientation. Canadian modern language review. 36,4.683-92.

CHAPTER BIBLIOGRAPHY--Continued

- Posner, Burt. 1981. Teaching writing to ESL students. Paper presented at the annual conference of New York Educator's Association. Rochester, New York. October 23-25.
- Saitz, Robert L., Maureen Dezell, and Francine B. Steiglitz. 1984. Contemporary perspectives: An advanced reader/rhetoric in English. Boston: Little, Brown and Co.
- Shaughnessy, Mina. 1977. Errors and Expectations. New York: Oxford University.
- Smalley, Regina L. and Mary Ruetten Hank. 1982. Refining composition skills: Rhetoric and grammar for ESL students. New York: Macmillan.
- Wrase, Judith. 1984. Connecting ideas in ESL writing. TESOL newsletter. 17,1.6-8.

APPENDIX A

TABLE I

TYPES OF IDENTIFIABILITY*

Types	Domain	Particular
Novel	Non-Identifiable	Non-Identifiable
	Non-Conscious	Non-Conscious
New	Identifiable	Identifiable
	Non-Conscious	Non-Conscious
Computable	Identifiable (semantic memory)	Identifiable (semantic memory)
	Non-Conscious	Non-Conscious
Recoverable	Identifiable (episodic memory)	Identifiable (episodic memory)
	Non-Conscious	Non-Conscious
Some	Identifiable	Non-Identifiable
	Conscious	Non-Conscious
Given	Identifiable	Identifiable
	Conscious	Conscious

* Source: Copeland and Davis 1980:128.

TABLE II

SEMANTIC DEPENDENCY CONTINUUM

Foregrounding	Backgrounding
Most continuous	Most discontinuous
Identifiability in immediate context	Identifiability in syntactic structure
Most finite	Least finite

SYNTACTIC COMPLEXITY CONTINUUM

Most coordinate	Most subordinate
Simple coordination	
Main clause adjacency	
Main clauses joined by conjunctive adverbs and transition expressions	
Subordinate finite adverb clause joined to main clause	
Nonfinite adverb clause joined to main clause	
Finite relative clause modifying noun	
	Complement clause functioning as subject
	Prepositional phrase

TABLE III

COMPARISON OF SEMANTIC CATEGORIZATIONS

Sources			
	Halliday Hasan	Whitehall	Quirk Greenbaum
Additive	Additive	Addition	Additive
	Simple		
	Complex		Reinforcing
	Alternative	Alternation	Replacive
	Apposition		Equative
	Comparison	Comparison	Transitional
Temporal	Temporal	Qualification	
	Simple		Enumerative
	Conclusive		Summative
	Complex		Temporal- transition
	Internal		
	'Here and now'		
	Summary		
Causal	Causal	Illative	Inferential
	General		
	Specific		Result
	Reversed		
	Conditional		
	Respective	Qualification	
Adversative	Adversative		Transitional
	Contrastive	Contrast	Antithetic
	Correction		Concessive
	Dismissal		
Other		Incorporation	Reformulatory

TABLE III--Continued

Sources				
Winterowd Larsen	Hartnett	Arapoff	Zandervoort	Dijk
Coordinate	Sequencing	+Additive -Additive	Manner	Conjunction Manner Disjunction
Alternative		+Exemplifying +Comparative	Comparison	
Conclusive Sequential	Time- sequencing		Time Place	Time Place
				Finality
Causative	Inferential	+Inferential -Exemplifying	Cause Reason Purpose Condition Result	Causality Condition
Observative	Comparison Contrast	+Intensifying -Comparative -Inferential -Intensifying	Concessive Contrast	Concessive Contrast Contrastive- assertion
			Restriction	

TABLE IV

DEFINITIONS AND SEMANTIC SCOPE
OF LEXICAL DEVICES

Definitions	Semantic Scope		
	Simple		Complex/Emphatic
	Coordinating conjunctions	Subordinating conjunctions	Conjunctive adverbs Transition expressions
Additive			
'there is something more to be said'			also, besides, in addition, furthermore, moreover
the above + not		or	neither, either
'another possible opinion, explanation in place of the one just given'		or	alternatively
'a point is being reinforced or a new one being added to the same effect'	and	but	likewise, similarly in the same way, in this way
'a point is being reinforced or a new one being added to a different effect'			on the other hand, by contrast
'the following is an example of the last point'			for instance, for example, thus
'another way to say the same thing is..'			I mean, in other words, that is
'the following is related but not exactly on the same point-an afterthought'			by the way, incidentally

TABLE IV--Continued

Definitions	Semantic scope			
	Simple			Complex/Emphatic
	Coordinating conjunctions	Subordinating conjunctions		Conjunctive adverbs Transitions
Temporal				
'it follows in time'			after	afterwards, subsequently
'then immediately'				at once, thereupon, on which
'then, after an interval'	and	so	then	after soon, presently later, formerly
'then, repetition'				next time, on another occasion
'then, specific time interval'				this time, on another occasion
'simultaneous'			when, while, where	at the same time, simultaneously
'previous'			before	earlier, previously
'end of process or series'				finally, at last, in the end
'sequential'				first...then, first...next, first...second,
'here and now'				up to now, hitherto, here
'to culminate'				in short, briefly, to sum up

TABLE IV--Continued

Definitions	Semantic Scope		
	Coordinating conjunctions	Simple Subordinating conjunctions	Complex/Emphatic Conjunctive adverbs Transitions
Causal 'because..., so...'		since	therefore, hence consequently
'as a result of this'			as a result, in in consequence
'for this reason'			for this reason, on account of this
'for this purpose'		so for then	for this purpose, with this in mind, with this intention
reversed order of causal	and		for, because
'if..., then...'			if
'if not..., then...'			unless
'with respect to'			in this respect, with regard to this
Adversative 'contrary to ex- pectation'			yet, although even though
'and contrary to expectation'			however, neverthe- less, despite this
'to be set against'	but		while, whereas
'not...but...'			however, on the other hand, at the same time
'no matter the cir- cumstances, still'			instead, rather, on the contrary, at least
			in any case, anyhow, at any rate, which- ever

APPENDIX B

SENTENCE RHETORIC FOR EXAMPLE SUPPORT*

Instructions: Combine the sentences in each group below by making parallel structures into compound and subordinating support ideas to the important focus of each set. Use coordinating conjunctions (such as and, but, or) conjunctive adverbs (such as therefore, furthermore, however), subordinating conjunctions (such as when, even though, that), and prepositions.

- (1) Modern architecture makes use of technology.
It uses technology in certain ways.
- (2) Air-conditioning systems make glass skyscrapers possible.
Elevators make tall skyscrapers possible.
- (3) The geodesic dome is another example.
It has perfect weight distribution.
It enables enormous spatial areas to be built.
- (4) The geodesic structure is strong.
It is inexpensive.
It is easily expandable.
- (5) There is one future application of technology.
It is revolutionary.
- (6) It works under the ocean.
A weak electric current is established through a wire mesh.
The minerals in sea water collect on the wire.
- (7) The minerals become a solid mass.
They have the strength of concrete.
It takes six to eight weeks.
- (8) These sea-made formations may be useful.
Some day people will be able to use them to live in.

* Source: Johnston and Zukowski/Faust 1981. 47-48.

Arabic*

- (1) Modern architecture makes use of technology, and It uses technology in certain ways.
- (2) Air-conditioning systems make glass skyscrapers possible, and elevators make tall skyscrapers possible.
- (3) geodesic dom is another examble. Because it has perfect weight distribution, it enable enormous spatial areas to be built.
- (4) The geodesic structure is very strong, and it is inexpensive even thoug It is easily expandable.
- (5) There is one future application of technology and it is revolutionary.
- (6) It works under the ocean-where a weak electric current is established through a wire mesh, the minerals in sea water collect on the wire.
- (7) When the minerals become a solid mass, they have the strength of concrete. and it takes six to eight weeks to do so.
- (8) These sea-made formations might be useful so that, someday people will be able to use them to live in.

* All errors of punctuation, capitalization, spelling, and content by these nonnative writers have been carefully reproduced in these sample pages.

Korean

- (1) Modern architecture makes use of technology, and it uses technology in certain ways.
- (2) Air-conditioning systems make glass skyscrapers possible, or elevators make tall skyscrapers possible.
- (3) The geodesic dome is another example that it has perfect weight distribution. Furthermore, it enables enormous spatial areas to be built.
- (4) Even though, the geodesic structure is strong, it is inexpensive, and it is easily expandable.
- (5) There is one future application of technology that it is revolutionary.
- (6) It works under the ocean that a weak electric current is established through a wire mesh. However, the minerals in sea water collect on the wire.
- (7) When the minerals become a solid mass, they have the strength of concrete. Therefore, it takes six to eight weeks.
- (8) These sea-made formations might be useful. Therefore, someday people will be able to use them to live in.

Ibo

- (1) Modern architecture makes use of technology and it uses technology in certain ways.
- (2) Elevators make tall skyscrapers possible, futhermore, air-conditioning systems make glass skyscrapers possible.
- (3) The geodesic dome has perfect weight distribution and enables enormous spatial areas to be built, therefore is is another example.
- (4) The geodesic structure is strong but easily expandable therefore it is inexpensive.
- (5) There is one future application of technology that is revolutionary.
- (6) It works under the ocean when a weak electric current is established through a wire mesh then the minerals in sea water collect on the wire.
- (7) The minerals have the strenght of concret when they become solid mass even though it takes six to eight weeks.
- (8) These sea-made formations might be useful and someday people will be able to use them to live in.

German

- (1) Modern architecture makes use of technology by using it in certain ways.
- (2) Air-conditioning systems make glass skyscrapers possible, however elevators make tall skyscrapers possible.
- (3) The geodesic dome is another example. Because it has perfect weight distribution, it enables enormous spatial areas to be built.
- (4) Because the geodesic dome is strong it is inexpensive and is easily expandable.
- (5) There is one future application of technology which is revolutionary.
- (6) Even though it works under the ocean, a weak electric current which is established through a wire mesh collects the minerals of the sea water on the wire.
- (7) The minerals become a solid mass after six or eight weeks so that they have the strength of concrete.
- (8) Furthermore, these sea-made formations might be useful so that one day people will be able to use them to live in.

Malay

- (1) Modern architecture make use of technology in certain ways.
- (2) Air-conditioning systems and elevators make glass and tall skyscrapers possible.
- (3) The geodesic dome is another example that has perfect weight distribution and enables enormous spatial areas to be built.
- (4) The geodesic structure is strong, inexpensive and easily expandable.
- (5) There is one future application of technology which is revolutionary.
- (6) A weak electric current which works under the ocean is established through a wire mesh that collects the minerals in sea water.
- (7) It takes six to eight weeks for the mineral to become a solid mass that have the strength of concrete.
- (8) Some day people will be able to use the sea-made formation to live in therefore they might be useful.

APPENDIX C

SAMPLE PARAGRAPHS*

Instructions: Read the following three paragraphs. Which one do you prefer? What is different about each paragraph?

(1) Once there were many carousels in the United States. (2) Hundreds of towns and cities had them. (3) They delighted children. (4) Now there are fewer than 100 left. (5) The carousels are old and costly. (6) So amusement parks have been replacing them. (7) They use modern rides instead. (8) These rides are made of plastic and aluminum. (9) That makes them peppier and easier to maintain. (10) Meanwhile, the carousels are chopped up. (11) Their horses are turned into bar stools. (12) Their heads are cut from their bodies. (13) The carved wooden animals are sold to antique dealers.

(1) Once there were many carousels in the United States, and (2) hundreds of towns and cities had them. (3) They delighted children, but (4) now there are fewer than 100 left, and (5) they are old and costly, and so (6) amusement parks have been replacing them with (7) modern rides. (8) These rides are made of plastic and aluminum, and (9) that makes them peppier and easier to maintain, but meanwhile (10) the carousels are chopped up and (11) their horses are turned into bar stools and (12) their heads are cut from their bodies, and (13) the carved wooden animals are sold to antique dealers.

Although (3) they were once a children's delight in (2) hundreds of towns and cities, (1) carousels in the United States (4) now number fewer than 100. (6) Amusement parks have been replacing these (5) costly old merry-go-rounds with (7) modern (8) plastic and aluminum rides that (9) are both peppier and easier to maintain. (10) The carousels, meanwhile, are chopped up, (11) their horses turned into bar stools, (12) heads cut from bodies, and (13) carved wooden animals sold to antique dealers.

* Source: Wrase 1984: 6.

BIBLIOGRAPHY

- Anderson, Pamela L. 1980. Cohesion as an index for written and oral composition of ESL learners. Paper presented at the annual meeting of the Midwest MLA. Minneapolis, Minnesota. November 6-8.
- Arapoff, Nancy. 1968. The semantic role of sentence connectors in extra-sentence logical relationships. *TESOL quarterly*. 2,4.243-52.
- Bateman, Donald and Frank Zidonis. 1966. The effect of a study of transformational grammar on the writing of ninth and tenth graders. National Council of Teachers of English research reports. Champaign, Illinois: NCTE.
- Boiarsky, Carolyn. 1981. The eleven functions of revision. Paper presented to the annual meeting of the Conference on College Composition and Communication. Dallas. March 26-8.
- Bolinger, Dwight L. 1965. *Forms of English: Accent, morpheme, order*. Cambridge, Massachusetts: Harvard.
- Brown, Daniel and Bill Burnette. 1984. *Connections: A rhetoric/short prose reader*. Boston: Houghton Mifflin.
- Chafe, Wallace. 1976. Givenness, contrastiveness, definiteness, subjects, topics, and point of view. *Subject and topic*, ed. by Charles Li, 25-6. New York: Academic.
- Chafe, Wallace. 1982. *Integration and involvement in speaking*,

BIBLIOGRAPHY--Continued

- writing, and oral literature. Spoken and written language: Exploring orality and literacy, ed. by Deborah Tannen, 35-53. Norwood, New Jersey: Ablex.
- Chatman, Seymour. 1964. English sentence connectors. Studies in languages and linguistics in honor of Charles C. Fries, ed. by Albert H. Marckwardt, 315-34. Ann Arbor: The University of Michigan.
- Ching, Marvin K.L. 1982. Helping students find the proper connective: Why the difficulty. Paper presented at the 33rd annual Conference on College Composition and Communication. San Francisco. March 18-20.
- Chomsky, Noam. 1957. Syntactic structures. S. Gravenhage: Mouton.
- Claycomb, Annette. 1984. Workshop on cohesion in English given at the Intensive English Language Institute, North Texas State University. February 28.
- Cohen, Andrew D. 1983. Reformulating compositions. TESOL newsletter. 17,6.1,4-5.
- Copeland, James E. and Philip W. Davis. 1980. Identifiability and focal attention in an integrated view of discourse. The Seventh Lacus Forum. Columbia, South Carolina: Hornbeam.
- Culicover, Peter W., Thomas Wasow, and Adrian Akmajan. 1977. Formal syntax. New York: Academic.
- Dik, Simon C. 1978. Functional grammar. Amsterdam: North Holland.

BIBLIOGRAPHY--Continued

- Francis, Winthrop Nelson. 1958. The structure of American English. New York: Ronald Press.
- Fries, Charles Carpenter. 1940. American English grammar. New York: D. Appleton-Century.
- Fries, Charles Carpenter. 1952. The structure of English. New York: Harcourt, Brace, and Co.
- Givon, Talmy. 1979. On understanding grammar. Perspectives in neurolinguistics and psycholinguistics, ed. by Harry A. Whitaker. New York: Academic.
- Givon, Talmy. 1983. Topic continuity in discourse: The functional domain of switch reference. Switch reference and universal grammar, ed. by John Haiman and Pamela Munro, 53-81. Amsterdam: John Benjamins.
- Greenbaum, Sidney. 1969. Studies in English adverbial usage. Coral Gables, Florida: University of Miami.
- Halliday, M.A.K. and Ruqaiya Hasan. 1976. Cohesion in English. London: Longman.
- Halliday, M.A.K. 1984. Personal interview on the occasion of the second annual Rice University Symposium in Linguistics and Semiotics. February 10.
- Hartnett, Carolyn G. 1982. How cohesion expresses thinking. The journal of the Linguistic Association of the Southwest, 5,3-4.210-15.

BIBLIOGRAPHY--Continued

- Heidrich, Carl H. 1975. Should generative semantics be related to intensional logic?: Remarks on lexical factorization and semantic structure. *Formal semantics of natural language*, ed. by Edward L. Keenan, 188-204. London: Cambridge.
- Hill, Archibald A. 1958. *Introduction to linguistic structures*. New York: Harcourt, Brace, and Co.
- Hockett, Charles F. 1958. *A course in modern linguistics*. New York: Macmillan.
- Hopper, Paul J. 1979. Aspect and foregrounding in discourse. *Discourse and syntax: Syntax and semantics*, 12, ed. by Talmy Givon, 213-42. New York: Academic.
- Isard, Stephen. 1975. Changing the context. *Formal semantics of natural language*, ed. by Edward L. Keenan, 287-96. London: Cambridge.
- Jespersen, Otto. 1933. *Essentials of English grammar*. New York: Henry Holt and Co.
- Johns, Ann M. 1980. Preventing global discourse errors: Problems and approaches to ESOL writing. *CATESOL occasional papers*. 6.65-70.
- Johnson, Judith Anne. 1983. *Writing strategies for ESL students*. New York: Macmillan.
- Johnston, Susan S. and Jean Zukowski/Faust. 1981. *Keys to composition: A guide to writing for students of English as a second language*. New York: Holt Rhinehart and Winston.

BIBLIOGRAPHY--Continued

- Keenan, Elinor Ochs and Bambi B. Schieffelin. 1976a. Topic as a discourse notion: A study of topic in the conversations of children and adults. Subject and topic, ed. by Charles Li, 335-84. New York: Academic.
- Keenan, Elinor Ochs and Bambi B. Schieffelin. 1976b. Foregrounding referents: A reconsideration of left dislocation in discourse. Proceedings of the Berkeley Linguistic Society, 2.240-57.
- Krapp, George P. 1925. The English language in America. New York: Century.
- Kroll, Barbara. 1977. Combining ideas in written and spoken English: A look at subordination and coordination. Discourse across time and space, ed. by Keenan and Bennett, 69-108. Southern California occasional papers in linguistics. New York: Academic.
- Labov, William and Joshua Waletzky. 1967. Narrative analysis: Oral versions of personal experience. Essays on the verbal and visual arts: Proceedings of the 1966 annual spring meeting of the American Ethnological Society, ed. by June Helm. Seattle: University of Washington.
- Labov, William. 1972. Sociolinguistic patterns. Philadelphia: University of Pennsylvania.
- Lane, Lea. 1983. Steps to better writing: A guide to the process. New York: St. Martin's.

BIBLIOGRAPHY--Continued

- Leavelle, Cynthia. 1982. Pedagogical implications of conjunctive errors among nonnative speakers of English. Paper presented to the fall meeting of the Linguistic Association of the Southwest.
- Leavelle, Cynthia 1983. Conjunctive elements as signals of style. Unpublished manuscript.
- Li, Charles N. and Sandra A, Thompson. 1976. Subject and topic: A new typology of language. Subject and topic, ed. by Charles Li, 457-490. New York: Academic.
- Mellon, John C. 1981. Can sentence combining play a role in the revision process? Paper presented at the 71st annual meeting of the National Council of Teachers of English. Boston. November 20-25.
- Munro, Allen and Lynn Gordon. 1981. Intersentential semantics and text type. Unpublished manuscript.
- Munsell, Paul and Martha Clough. 1984. A practical guide for advanced writers in English as a second language. New York: Macmillan.
- Nystrand, Martin. 1982. Introduction. What writers know: The language, process, and structure of written discourse, ed. by Martin Nystrand, 1-30. New York: Academic.
- O'Donnell, Roy C. 1974. Syntactic differences between speech and writing. American speech. 49,2:102-10.

BIBLIOGRAPHY--Continued

- O'Hare, Frank. 1971. Sentence combining: Improving student writing without formal grammar instruction. National Council of Teachers of English research reports, 5. Urbana, Illinois: NCTE.
- Ong, Walter J. 1982. Orality and literacy: The technologizing of the word. New York and London: Methuen.
- Palmer, J.D. 1980. Discourse, register, and the teaching of writing: An orientation. Canadian modern language review. 36,4.683-92.
- Pike, Kenneth. 1984. Comments made at the second Rice University Symposium in Linguistics and Semiotics. February 10.
- Pitkin, Willis, Jr. 1969. Discourse blocs. College composition and communication. 20.138-48.
- Pösner, Burt. 1981. Teaching writing to ESL students. Paper presented at the annual conference of New York Educators Association. Rochester. October 23-25.
- Quirk, Randolph and Sidney Greenbaum. 1973. A concise grammar of contemporary English. New York: Harcourt Brace Jovanovich.
- Rader, Margaret. 1982. Context in written language: The case of imaginative fiction. Spoken and written language, ed. by Deborah Tannen, 185-198, Norwood, New Jersey: Ablex.

BIBLIOGRAPHY--Continued

- Saitz, Robert L., Maureen Dezell, and Francine B. Steiglitz. 1984. Contemporary perspectives: An advanced reader/ rhetoric in English. Boston: Little, Brown and Co.
- Shaughnessy, Mina. 1977. Errors and expectations. New York: Oxford University.
- Smalley, Regina L. and Mary Ruetten Hank. 1982. Refining composition skills: Rhetoric and grammar for ESL students. New York: Macmillan.
- Tannen, Deborah. 1982a. The myth of orality and literacy. Linguistics and literacy, ed. by William Frawley, 37-50. New York: Plenum.
- Tannen, Deborah. 1982b. Oral and literate strategies in spoken and written narrative. Language. 58,1.1-21.
- Thompson, Sandra A. and Robert E. Longacre. 1978. Language typology and syntactic field work. Unpublished manuscript.
- Thompson, Sandra A. 1983. The position of purpose clauses in English discourse. Paper presented at the Fall Linguistic Forum Series, University of Texas at Arlington. November 9.
- Tyler, Stephen A. 1978. The said and the unsaid: Mind, meaning, and culture. New York: Academic.
- Van Dijk, Teun A. 1977a. Text and context: Explorations in the semantics and pragmatics of discourse. London: Longman.
- Van Dijk, Teun A. 1977b. Connectives in text grammar and text logic. Grammars and descriptions, ed. by Teun A. Van Dijk and Janos S. Petofi, 11-63. Berlin: Walter de Gruyter.

BIBLIOGRAPHY--Continued

- Van Dijk, Teun A. 1981. Studies in the pragmatics of discourse. The Hague: Mouton.
- Van Dijk, Teun A. and Walter Kintsch. 1983. Strategies of discourse comprehension. New York: Academic.
- Waterhouse, Viola. 1963. Independent and dependent sentences. International journal of American linguistics, 29,1.45-54.
- Whitehall, Harold. 1951. Structural essentials of English. New York: Harcourt, Brace, and Co.
- Winterowd, W. Ross. 1970. The grammar of coherence. College English, 31,8.828-35.
- Winterowd, W. Ross. 1976. Linguistics and composition. Teaching composition: Ten bibliographical essays, ed. by Gary Tate, 197-222. Fort Worth: Texas Christian University.
- Witte, Stephen P. and Lester Faigley. 1981. Coherence, cohesion, and writing quality. College composition and communication, 32.189-204.
- Wrase, Judith. 1984. Connecting ideas in ESL writing. TESOL newsletter, 18,1.6-8.
- Zandervoort, Reinard Willem. 1965. A handbook of English grammar. Englewoods Cliffs, New Jersey: Longmans-Prentice-Hall, Inc.