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IN CONTRAST TO THE ACTION TAKEN BY COACHES,
THE AMERICAN MEDICAL ASSOCIATION STRONGLY CONDEMNS
THE LOSS OF BODY WATER FOR ATHLETES. THEY CONDEMN
LOSS OF BODY WATER DUE TO THE FACT THAT THE loss
of body water impairs cardiovascular functioning,
which limits work capacity. More specifically, a
loss of three percent of body water impairs physical
performance and a loss of five percent results in
heat exhaustion. Moreover, a loss of seven percent
of body water causes hallucinations. Losses of ten
percent or more of body water result in heat stroke,
deep coma, and convulsions; if not treated, death
will result.

Source: Meyer and Freedle(1984)

problem/Solution

A SERIOUS PROBLEM IS that athletic coaches frequently require wrestlers, boxers, judo contestants, karate contestants, and football team members to lose body water so that they will attain specified body weights. These specified weights are considerably below the athletes' usual weights.

A SOLUTION TO THIS PROBLEM IS FOR SCHOOL ADMINISTRATORS TO SUSPEND COACHES WHO REQUIRE ATHLETES TO LOSE BODY WATER. THIS STEP MUST BE TAKEN DUE TO THE FACT THAT THE loss of body water impairs cardio-vascular functioning which limits work capacity. More specifically, a loss of three percent of body water impairs physical performance and a loss of five percent results in heat exhaustion. Moreover, a loss of seven percent of body water causes hallucinations. Losses of ten percent or more of body water result in heat stroke, deep coma, and convulsions; if not treated, death will result.

Comparison

Athletic coaches frequently require wrestlers, boxers, judo contestants, karate contestants, and football team members to lose body water so that they will attain specified body weights. These specified weights are considerably below the athletes' usual weights.

Causation

IT IS TRUE THAT athletic coaches frequently require wrestlers, boxers, judo contestants, karate contestants, and football team members to lose body water so that they will attain specified body weights. These specified weights are considerably below the athletes' usual weights.

AS A RESULT, TRAGEDIES ARE UNWITTINGLY CAUSED BY THE COACHES WHO REQUIRE THIS LOSS OF BODY WEIGHT IN THESE SITUATIONS. THESE TRAGEDIES OCCUR DUE TO THE FACT THAT THE loss of body water impairs cardiovascular functioning, which limits work capacity. More specifically, a loss of three percent of body water impairs physical performance and a loss of five percent results in heat exhaustion. Moreover, a loss of seven percent of body water causes hallucinations. Losses of ten percent or more of body water result in heat stroke, deep coma, and convulsions; if not treated, death will result.

Appendix**Four Different Versions of The Text
"The Loss of Body Water"****Collection of Descriptions**

SEVERAL ASPECTS OF THE LOSS OF BODY WATER WILL BE DISCUSSED. FIRST, athletic coaches frequently require wrestlers, boxers, judo contestants, karate contestants, and football team members to lose body water so that they will attain specified body weights. These specified weights are considerably below the athletes' usual weights.

SECOND, THE LOSS OF BODY WATER SUSTAINED BY A 150-POUND INDIVIDUAL EACH DAY IS THREE PINTS OF WATER.

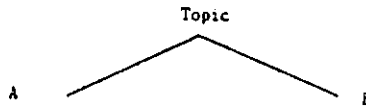
THIRD, loss of body water impairs cardiovascular functioning, which limits work capacity. More specifically, a loss of three percent of body water impairs physical performance and a loss of five percent results in heat exhaustion. Moreover, a loss of seven percent of body water causes hallucinations. Losses of ten percent or more of body water result in heat stroke, deep coma, and convulsions; if not treated, death will result.

4- Conclusion

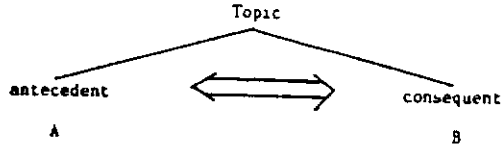
Comprehension failures can be, to some extent, attributed to the L₂ reader's lacking the appropriate relevant background knowledge required by the text. Furthermore, they are less sensitive to the top-level rhetorical organization of various text-types. They appear to depend mostly on intra-sentential, lexical and syntactic cues for comprehension, and are negligent of supra-sentential organizational structures of text-types. Hence, it can be claimed that through activating and bringing about sensitivity to the appropriate schemata and overall organizational patterns of texts, L₂ readers would be more capable of storing, retrieving and recalling the information embedded in the texts under focus. Therefore, through overt instruction of the top-level rhetorical formulae of various text-types and creating an awareness of different rhetorical patterns, EFL teachers will be able to tap on the readers' relevant schemata of text structures and pave the way for better comprehension of what they read.

FIGURE 3

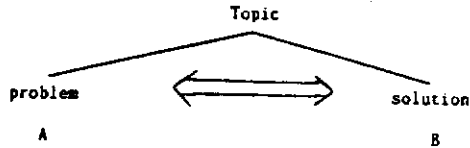
Relationships Between Nodes in Four Top-level Structures

Collection of Descriptions

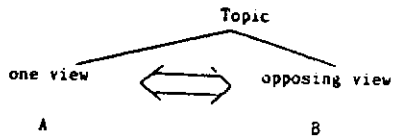
No relationships among A and B; each is independent of the other

Causation

Relationship between A and B is antecedent/consequent relationship; consequent is result of antecedent.

Problem/Solution

Relationship between A and B is problem/solution relationship; solution matches need established by problem.

Comparison

Relationship between A and B is comparative relationship; overlapping issues viewed from different perspectives.

Source: Carrell (1984c).

memory about the text. Not all of the information in the hierarchically organized schema is equally important or accessible in encoding, storing, or retrieving. The superordinate, or top-level, structure, which corresponds to the main ideas of a passage and the interrelationships among these main ideas, is cognitively more salient than the lower levels, which correspond to supporting ideas, detailed subordinate information (Carrell, 1984c:447). Hence, it can be claimed that the more highly organized structures such as causation, problem/solution, and comparison are more facilitative of encoding, storage and subsequent retrieval than the less tightly organized ones such as collection of descriptions, due to the particular relationships holding between the top-level nodes of these discourse types (See Figure 3).

the relevant background knowledge of the text organization to L₂ readers, Celce-Murcia and McIntosh (1979:191) hold that

many texts drawing on the rhetorical tradition also instruct students in the use of schemes according to which materials can be organized and arguments presented. Emphasis is given to different patterns of organization that paragraphs might assume through processes of analysis, contrast, analogy, etc.

According to schema theory, reading comprehension is a process which requires the reader to be aware of the organizational pattern being used for the arrangement of the material to convey the ideas clearly. For the comprehension of a specific text, the reader selects and activates the formal schema which is relevant and best fits the text under focus.

The schema employed to comprehend a text acts like an outline which guides the reader in organizing the text during the process of encoding (into memory). Likewise, during recall, the skilled reader activates this same kind of superordinate schema which had been used to encode the intention and uses it to retrieve the information stored in

activate the required and relevant schemata through which they try to interpret the text consistently. The more successful they are in activating the appropriate schemata, the higher their level of comprehension is thought to be. Laying stress on the relevance of schema theory to foreign language reading, Carrell (1984a: 341) states that

schema theory suggests that building and learning to activate appropriate background knowledge of text content and text rhetorical organization ought to produce better reading comprehension.

In order to guarantee a high level of comprehension in reading , EFL reading teachers are expected to aim at activating the relevant background knowledge required for the interpretation of a specific reading text. EFL teachers can discover the non-existent schemata and before starting the reading task, attempt to construct them in the student reader's mind. To some extent, this objective can be achieved through resorting to the strategy of providing the readers with the appropriate background knowledge with respect to the rhetorical organizations and underlying structures of various text types. Concerning the necessity of imparting

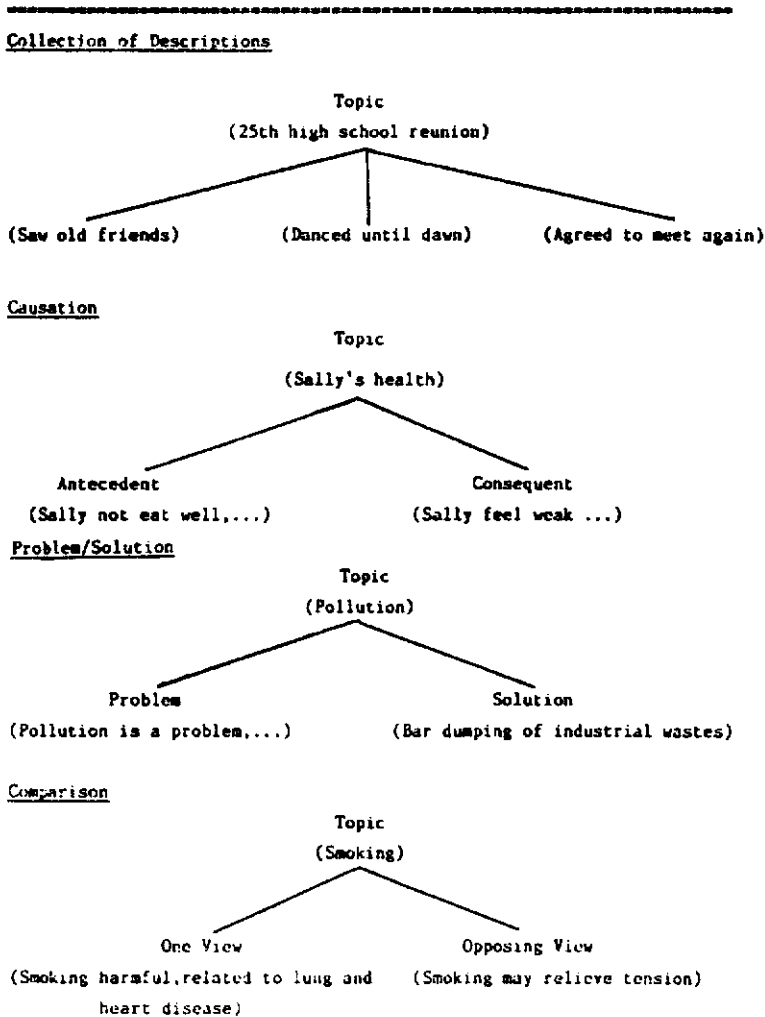
3-Schema Theory

As mentioned before, reading comprehension is an interactive process between the text and activation of the reader's relevant background knowledge called schema which has to do both with the formal rhetorical organization and the content of a text. Anderson(1980:129) defines a schema as large, complex units of knowledge that organize much of what we know about general categories of objects and classes of events. In the studies and researches conducted currently, schema theory, proposed by Barlett in 1932, cogently favours the strategy of equipping the readers with the operative foreknowledge of the organizational patterns of various types of texts. According to Anderson, et al.(1977: 367), three functions played by the schemata are as the following: First, schemata provide the basis for "filling the informational gaps" in a text. Second, schemata constrain a reader's interpretation of an ambiguous message. Third, it is by establishing a correspondence between things known, as represented by schemata, and the givens in a message that readers monitor their comprehension and know whether they have understood the text.

In the process of reading, the readers

FIGURE 2

Top-Level Structure of Illustrative Mini-Texts



Source: Carrell (1984c)

Comparison

Despite evidence that smoking is harmful, many people claim this is not so. Although smoking has been related to lung and heart disease, for some people smoking may relieve tension.

The top-level structures of these four mini-texts are diagrammed in Figure 2.

least tightly structured text types, and causation, problem/solution and comparison are among the highly organized ones. The majority of the expository texts contain readily identifiable organizational plans and rhetorical patterns, which make it easy to ascribe them to one of the previously-mentioned discourse types. In order to depict the text-specific characteristics of these discourse types more clearly , Carrell (1984c:444) has used the following mini-texts:

Collection of Descriptions

Our 25th high school reunion was held last year. We saw many old friends, danced until dawn, and agreed to meet again in five years.

Causation

Sally wasn't eating well, exercising, or resting enough. As a result, she felt weak and run-down and never wanted to do anything.

Problem/Solution

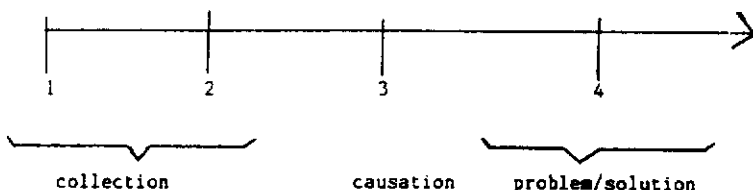
Pollution is a problem; polluted rivers are health hazards and eyesores. One solution is to bar the industrial wastes.

tion type is a specific kind of grouping by association in which one element of association is subordinate to another, namely the topic. By presenting a particular attribute, specification or setting, the description gives more information about the topic. When a number or collection of attributes, specifications or settings are given about a topic, the structures of collection and description are combined to form a sixth type-collection of descriptions. The causation type represents ideas which are grouped not only chronologically, but which are also causally related. This discourse type is like the if-then statements of logic, or like cause-effect (antecedent-consequence) statements. The problem/solution type contains all the features of cause-effect, with the additional feature of overlapping content between propositions in the problem and solution. The comparison type is on a different scale from causation and problem/solution. Rather than being organized on the basis of time or causality, it is organized on the basis of opposing viewpoints (Carrell, 1984_c: 442).

If the relevant components of each discourse type are delved into and analyzed carefully, it becomes clear that collection and description are the

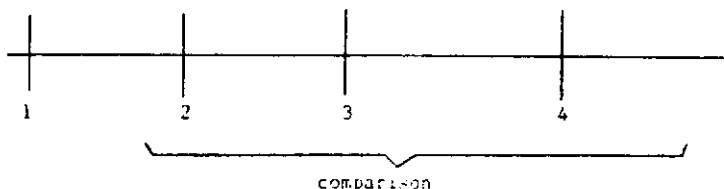
FIGURE 1
Components of Each Discourse Type

grouped by association grouped by sequence (e.g., time) causally or quasi-causally related at least one aspect of the solution matches in content and stops an antecedent of the problem



Description
a specific type of grouping by association: one element of the association is subordinate to another

grouped by association at least one number of matching relationship structures and issues covered



moving off the track. Hence, one of the effective strategies for the enhancement of L₂ readers' comprehension is to use the technique of providing them with the operative foreknowledge of the underlying structures of various texts, and giving directionality to their conceptions, interpretations and expectations developed with respect to the texts under focus.

According to Meyer (1979), there exist five basic ways for organizing various types of expository texts, and it has been supported empirically that the specified discourse types influence the reading process and the resulting comprehension drastically. These five types of expository organization consist in collection, description, causation, problem/solution, and comparison. The crucial and distinctive characteristics of each discourse-type pertaining to the foregoing classification are clearly presented in Figure 1.

Among these different types of expository discourse, the collection type represents the loosest organizational types, being merely a grouping or listing of concepts or ideas by association. If the association is by sequence (by time, for example), then the listing becomes more organized (yielding, for example, a historical chronology). The descrip-

evidence that we should be considering rhetorical factors in the text as well as more traditional intrasentential linguistic factors.

2-Effects of Structural Qualities

Successful understanding of a text requires a coherent representation of the text in memory. On the one hand, this representation includes the individual pieces of information presented in the text. On the other hand, it contains information about the interrelationships between these individual pieces of information; that is, about the structure of the text. As their experience with the target language increases, L₂ readers become more adept at recognizing the structural properties of the texts they encounter (Horiba et al., 1993:346).

If the readers gain sufficient knowledge with respect to the rhetorical organization of various types of texts, they will be in a better position to think along with the writer and decipher the main points of the text. In other words, familiarity with the organizational or structural patterns will act as an aid for the efficient comprehension and retention of the required information and will pave the way for the readers to follow the writer's line of argument through the text and avoid

information at lower levels, both immediately after reading and listening, and also over time (Meyer, 1977: 307).

University students studying English for academic purposes would be called on to read for information and to remember it—for example, in preparing for exams and class assignments. The efficiency with which students can read under such circumstances is important. If they can get the necessary information quickly and effectively, they will probably perform well and feel better about the task. By teaching them a little about the ways in which expository texts are typically organized at the top level, they will learn how to use their knowledge to improve their comprehension of what they read, as well as to improve their recall of what they read (Carrell, 1985:735). Urquhart(1984:180)expresses his acquiescence concerning the necessity of the prior knowledge of the text structure to the effect that

textual factors must be particularly important when reading in a foreign language. Although there has been a tendency to think that the main problems foreign language readers face are lexical and syntactic, the point is that there is accumulating

87).

Discourse analysts and language teaching specialists unanimously maintain that various types of texts have specific schematic structures and readers are believed to have sensitivity to these structures and make use of them in order to comprehend the text and recall the content. The degree to which the structure and organization of the material is compatible with the individual's cognitive network is one of the significant factors which seems to affect retention and recall of information (Chastain, 1988:42). While admitting the crucial role played by the text-specific prior knowledge, Jonz (1989: 209) holds that

in addition to the sequence of sentences, the various structural features of text, from the phonology and orthography at one pole to top-level rhetorical patterning at the other, operate interactively to constrain comprehension and interpretation.

Thus, the way the information in a passage is organized is an important factor in reading comprehension. Specifically, the information located high, or at top levels, in the hierarchical organization of a passage is recalled better than

Hence, there exists a close relationship between reading comprehension and metacognitive awareness of reading strategies. One of the significant components of metacognitive awareness or suprasentential judgement is that of text structure. Therefore, reading and comprehending foreign language materials can be, to some extent, improved provided that language teachers pave the way for the realization of this objective and equip the readers with the basic knowledge of the rhetorical organization of the expository texts and contribute to the learners' understanding accordingly. The achievement of this purpose can be partly realized through providing the readers with the knowledge of the rhetorical organization of the text and reading strategies required to comprehend it.

Research on discourse or text comprehension has shown that comprehension is determined not only by the sentence patterns and paragraph development, but also by the overall suprasentential or rhetorical organization of the text. Each type of text-i.e. narrative, descriptive, expository or scientific texts-has its own conventional structure; knowledge of these conventions aids readers in comprehending the text as well as recalling it later (Carrell, 1984b:

due to the fact that reading comprehension, according to schema theory, is a process taking place through an interaction between the reader and the text. Among other things, this means that reading comprehension is an interaction between the reader's background knowledge of the concepts involved and processing strategies used for deriving the meaning on the one hand, and the rhetorical organization of the text, on the other (Carrell, 1984c:441). Furthermore, Jonz (1987:410) has laid great stress on the existence of relationship between the reader and the text while stating that

to study the relationship between person and text, we focus attention on the knowledge, both linguistic and colinguistic, that language users bring to the task of comprehending, varying the language user's access to certain linguistic features of text and measuring comprehension as directly as possible. The simple principle is that features of text exert a strong influence on the meaning that language users, especially non-native language users, derive from interacting with the text.

Reading involves activation of relevant knowledge and related language skills to accomplish an exchange of information from one person to another.

F.Farrokhi (M.A.)*

**Facilitating EFL Reading by Teaching
Rhetorical Organization of Texts**

1-Introduction

Foreign language learners encounter serious difficulties in reading and comprehending texts in a foreign language when reading them for the first time. Nevertheless , it is an established fact among language professionals that reading in a foreign language and obtaining the required information embedded in the text is one of the prime purposes sought in a foreign language curriculum. But this objective becomes hard to achieve, mainly

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