The modifications of English sounds in speech

The Phonological Analysis of English Speech Sounds

- In connected speech a sound is generally modified
- 1) by the neighbouring sounds;
- 2) by its position in a word or a phrase;
- 3) by prosodic features: stress, melody, the tempo of speech

Methods of phonological analysis

The rules to determine the phonemic status of a sound of a complex nature:

- A phoneme is indivisible as no syllable division can occur within it.
- A phoneme is produced by one articulatory effort.
- The duration of a phoneme should not exceed that of other phonemes in the language.



- Idiolectal variation embraces the individual peculiarities of articulating sounds. For instance, the speaker may mumble, or lisp (say 'thish ish' for 'this is'), or stutter (say a f-f-f-fine d-d-d-day)/
- Idiolectal variation may cause a lot of difficulties in the communication.

- Diaphonic variation is caused by concrete historical tendencies active in certain localities.
- E.g., the diaphonic variation of the sound /æ/ ranges from a front open /æ/ in the southern part of England to /ɑ:/ in Northern England.

- Allophonic variation is conditioned by phonetic position and phonetic environment (the influence of the neighbouring sounds).
- The main types of allophonic variations are reduction, elision, assimilation and accommodation (or adaptation).

Reduction – the weakening of articulation and shortening of the duration of unstressed vowels

Reduction

qualitative can /kan/

quantitative she / ʃi/ zero

can /kn/

- In qualitative reduction the unstressed vowel is usually reduced to /ə/.
- In quantitative reduction the unstressed vowel is shortened.
- In zero reduction the unstressed vowel is dropped.

Elision – the disappearance of a sound Elision

historical

juxtapositional

(contemporary)

know /nəu/ palm /pα:m/ a blind man /ə blain mæn/ sit down /si daun/

- Historical elision reflects the process in which a sound that existed in an earlier form of a word was omitted in its later form (e.g. cupboard).
- In juxtapositional elision a sound that exists in a word pronounced by itself is dropped in connected speech (especially in rapid speech).

Assimilation – the process by which a sound is altered through the influence of a neighbouring sound.

Assimilation may influence:

- the work of the vocal cords (voice assimilation);
- the active organ of speech;
- the manner of noise production (loss of plosion or incomplete plosion);
- the place of articulation (in trip alveolar /t/becomes post-alveolar).

 Voice assimilation is observed when one of the two adjacent [ədʒeɪs(ə)nt] (смежный, соседний) consonants becomes voiced under the influence of the neighbouring voiced consonant, or voiceless - under the influence of the voiced consonant. E.g.: translate [trənz 'leit], I shoud pay [ai st pei].

The active organ of speech may be affected in a careless rapid speech, e.g.:

Give me / gim mi/;

bad pain /bæb ,pein/;

queen mother /kwi:m maðə/.

Assimilation

(according to direction)

progressive

regressive

double

desks /desks

at the desk /ət ðə/

(bidirectional) twice / wais/

bags /bægz/ happen /hæpm/

(/t/-dental)
good bye /gub bai/
give me /gim mi/

/dj/ > /dʒ/ education /tj/ > /tʃ/ situation /sj/ > /ʃ/ issue

Accommodation (adaptation) – the process of adapting the articulation of a vowel to a consonant, or a consonant to a vowel.

Vowels:

- nasalization: [tẽn]
- shortening: cease [si·s]

Consonants:

- palatalization: / ∫, ʒ, t∫ ∫, dʒ/ shirt, cheese, June
- labialization: Compare /t/ in tea and two

The causes of allophonic variation:

- 1. "Economy of effort"
- 2. "The law of the stronger"

E.g. of course / of ko:s/

3. Frequency of occurrence

Frequent consonants: /t, n, s, ð, l, d/