

exhalation of our air stream, must be firm but **never** forced. Our ears are the best guides in determining exactly how much breath impulse we need to **make** a smooth transition from one note to the next **when** slurring. As a general rule we will need more air for the lower notes, and more air *velocity* for the higher tones. The degree of velocity with which our breath strikes the vibrating lips will be determined by the coordinated action of the diaphragm muscles and the arched tongue. Whether slurring to a higher tone or to a lower one, we must always maintain the buoyant sensation of diaphragmatic support.

In slurring, the movement of the valves is secondary, and should not be relied upon to change the pitch. We must allow the breath to make the change

in pitch. The valves only *assist* us in making the pitch change. Of course, the movement of the valves must be synchronized with the breath syllables in order to achieve a fluid slur from one note to the other.

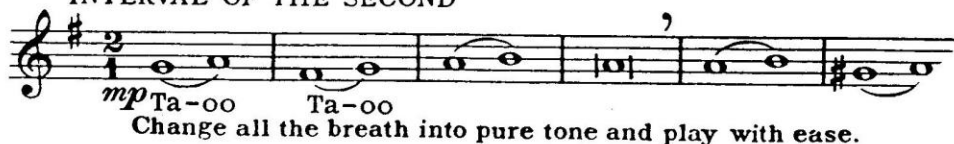
Breath control is an acquired skill that can mature only through time and dedicated practice. The manner in which we project our breath determines the quality of our sound. But we must remember that the breathing requirements for brass instrument playing are considerably more demanding than the requirements of normal respiration. Our breath is not self-automated. *We* must do the work. By cultivating breath control we can make our horns speak with authority; our playing will assume new confidence and control.

Excerpt from ERNEST WILLIAMS COMPLETE METHOD

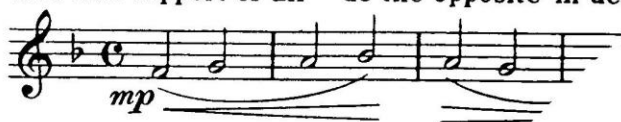
## Chapter 9

### SLURS

#### INTERVAL OF THE SECOND



In ascending make aperture of lips slightly *more* and support of air – do the opposite in descending



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## Chapter Two

# THE FUNCTIONS OF THE TONGUE

### THE BREATH RELEASE

Let me begin this chapter by debunking any theory that claims that the articulated note is activated by the tongue. "Tonguing" is a misnomer; the proper term is breath release.

The tongue acts only as a muscular vehicle that guides and releases our air column. We use the center-most tip of our tongue as a regulatory valve that alternately resists and releases our pressurized breath. By enabling us to hermetically seal the air stream the tip of our tongue assists us in compressing our breath for an aggressive exhalation.

When we ready ourselves for the breath release, or attack, the pressure of the air column against the tongue valve (tip) activates the body's entire muscular structure. Our body is "cocked" for action; all of our facial muscles are drawn together to supply instantaneous support. Even the muscles throughout our legs and torso are sympathetically flexed for support. Our mouthpiece is steadied on our lips by the natural focus of our embouchure muscles, and we are ready for the commencement of the note. The tongue tip works in sympathy with all of our body muscles that are drawn into play to support our breath.

The notion that our tongue "strikes" and the air follows after the articulation is sheer nonsense. This can only produce a delayed attack, which if described verbally would sound like this: "tuh — whoosh." When our air column is properly supported and is sealed behind the tongue, the movement of our tongue tip and the breath release will be inseparable actions. We will have no delay between the attack and the commencement of sound.

"Striking" the notes with our tongue correctly *releasing* our pressurized breath has disastrous consequences. In this delayed attack, the breath does not rush through the articulation. Consequently, the note built up to propel our air through the instrument. Notes are doomed to die through it. As

I cannot emphasize enough how crucial it is to have the breath compressed in readiness against the sealed valve (tongue tip) *before* the release. The valve and the air must move simultaneously. An enormous amount of wind velocity is required to drive our air column through the horn. We cannot obtain that degree of velocity by *tonguing* and *then* blowing. Our breath must blow that tongue valve down, so that the air stream can shoot forward like gangbusters.

The tip of our tongue, acting as a spring-like valve, enables us to pack energy into the air stream so that our breath can be propelled through the horn. I do not delude ourselves into thinking that our tongue actually starts the sound, because it is the breath that accomplishes that, by striking the lips and setting them in vibratory motion.

By using the tongue as a valve projected with the necessary resistances of our body are two simple reasons the air stream has been forced just prior to release of our body's resistance to blow through late by then released



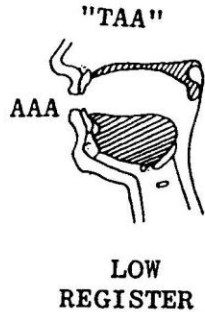
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Excerpts of Text from  
**ERNEST S. WILLIAMS (Complete Method)**

**TECHNIQUES IN BREATH CONTROL**

Place finger on the thyroid cartilage (ADAM'S APPLE) and sing Study A, using syllable ta-e. Observe movements of cartilage and the tongue from its base to its center. Then play Study A, using syllable ta-e making certain that the movement of the cartilage and tongue function effectively. It will be observed that the larynx and the tongue rise and lower according to the pitch.



**DISTANCE IN MOVEMENT OF THE TONGUE**

It is obvious that the cartilage and tongue move a greater distance in executing the interval of a fourth than of a third, and so on — the larger the interval, the greater the change.

**TECHNIQUE FOR SCALE, CHORD AND INTERVAL**

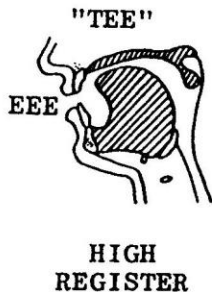
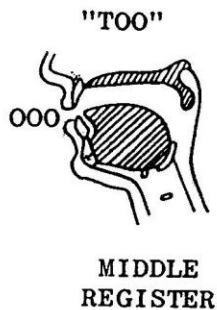
This principle should be properly cultivated and an accurate technique attained in scale, chord and interval practice.

By properly applying this precept, the student, by patient and careful practice, should acquire technical accuracy, flexibility and fluency. All tones should be "FULL, PURE, FREE and in TUNE."

With this knowledge, through experimentation, a dependable technique should be developed.

**CHANGE OF LIP POSITION UNNECESSARY**

It is unnecessary to change lips when slurring intervals without a change of fingering is required. When a change of fingering is necessary, the larynx and the base of the tongue should move in the throat. The movement in the throat should be greater for fourths than in slurring. Relative changes required in scale, chord and interval practice should be practiced.



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# Lip Flexibilities Vol. 2

Trombone or Baritone Descending from first position



ascending from seventh position



## RANGE TO D

Descending from first position



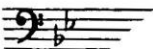
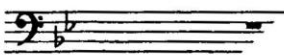
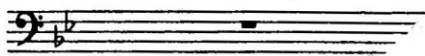
## EXPANDING RANGE TO D

ascending from seventh position



## LIP TRILLING TO D

Descending from first position



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Fig. 1 FRONT VIEW OF CONTRIBUTORY FACIAL MUSCLES



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## Chapter Six

### QUESTIONS AND ANSWERS

**Question:** Why is the word "tonguing" a misnomer?

**Answer:** The tongue does not start our tone, as implied by the phrase "tonguing." Rather, the lips are forced into vibrating motion by the aggressive assault of our breath, and these vibrations commence the sound. This is an important mental concept, since it is not the tongue that is the active agent, but the compressed breath, which forces the spring-like valve down slightly (the tongue tip) for the explosive release. Hence, the proper term is not "tonguing" but "breath release."

**Question:** Is there more than one way to release our air column?

**Answer:** Yes, there are two ways to release the air stream.

First method: The breath can be released by breaking the hermetic seal formed by the placement of the tongue tip at the roof of our mouth where our front teeth meet the gum line. In this type of articulation the tip of our tongue acts as a spring-like valve. When our tongue tip is retracted slightly from its position at the gum line, our compressed breath — which has been forced up against the tongue tip — is immediately released and charges forward triggering the vibrations of our lips.

Second method: Our tongue tip is not used to contain the compressed air column. The latter is activated by an impulse from the diaphragm muscles while forming any one of several breath syllables: hoo, haa, or hee. This second method is not nearly as spontaneous an articulation as the technique in which our tongue tip serves as a valve.

**Question:** Does the breath release without the use of the tongue tip have a practical application for performance?

**Answer:** The "hee-hoo-haa" type of breath release is not suggested for actual performance. But it is a useful practice for the synchronization of tributary muscles supporting our breath for the development of responsive lip articulation. A few minutes a day, this type of clinical exercise need not be done. A few minutes a day, this type of clinical exercise need not be done. A few minutes a day, this type of clinical exercise need not be done.

Overdoing this form of

our patterns of muscular response, since the most important technique of brass playing is the spontaneous breath release coupled with the spring-like action of our tongue tip.

**Question:** What are the three sections of our tongue and what are their corresponding functions?

**Answer:**

1) The rear section must be arched in order to compress the air stream into the necessary breath syllables.

2) The middle section of our tongue must be spread out against our upper rear molars. This serves to determine the relative position of our jaw, thereby creating the necessary opening between our upper and lower sets of teeth for the passage of our breath.

3) The tip of our tongue operates as a spring-like valve, which alternately stops and releases our breath. Our tongue tip must be positioned at the roof of our mouth where our front teeth meet the gum line. The tongue tip flips down in a rapid spring-like motion for the breath release, and then springs back to its original position in preparation for the next release. While the note is being sustained, the tongue tip is not cycled that our tongue tip never

The functions of our tongue are distinct, and one should not alter the fixed position of the tongue tip.

**Question:** What

**Answer:**  
should  
and



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