

You Are Only As Good As Your Last Breath: Improving Brass Pedagogy

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The Bach Trumpet Division of the Conn-Selmer Corporation

Sponsored by Fort Lewis College and the Conn-Selmer Corporation



C O N N - S E L M E R , I N C .

Dr. Marc Reed currently serves as Music Department Chair and Director of Brass Studies at Fort Lewis College in Durango, Colorado where he teaches applied trumpet and horn, brass ensembles, brass methods, and courses in jazz and popular music. He is the column editor of the International Trumpet Guild Journal's Trumpet in the Wind Band Column, Co-Principal Trumpet of the San Juan Symphony Orchestra, and is an artist/clinician for the Bach Trumpet Division of the Conn-Selmer Corporation.

Reed has presented clinics at the 2009 Iowa Bandmasters Association Conference, 2011 Alabama Music Educators Association Conference, 2011 Midwest Band and Orchestra Clinic, 2012 Florida and Colorado Music Educators Association Conferences, and will present clinics at the 2013 International Trumpet Guild Conference, 2013 Texas Music Educators Association Conference, and 2013 Iowa Bandmasters Association Conference. He has published several articles on brass pedagogy and is a contributing member of the ITG Journal's Recording Review and Book Review staffs. He annually serves as a Conference Reporter for the ITG Journal. Reed can be heard on over a dozen recordings on the DJ Music, Mark, Kalvier, and GIA Windworks labels.

Previous faculty appointments include the University of Alabama at Birmingham as Assistant Professor of Trumpet and Assistant Director of Bands, Waldorf College as Assistant Professor of Music and Director of Instrumental Activities, Drake University as Artist Teacher of Trumpet, and The University of North Texas as a Doctoral Trumpet Teaching Fellow. He was also the Applied Trumpet Instructor at The Colony High School, Griffin Middle School, and Lakeview Middle School in the Lewisville, Texas Independent School District, for five years. He has also taught at Blue Lake Fine Arts Camp as Faculty Trumpet Instructor.

Reed holds a Doctor of Musical Arts Degree in Trumpet Performance and Brass Pedagogy from the University of North Texas, Master of Music Degree in Trumpet Performance from The University of North Texas, and Bachelor's Degrees in both Music Education and Trumpet Performance (with a jazz emphasis) from Drake University. Dr. Reed studied trumpet with Keith Johnson, John Holt, Richard Giangiulio, and Andrew Classen. He was a three-year member of the North Texas Wind Symphony, directed by Eugene Corporon. He studied wind conducting with Eugene Corporon, Dennis Fisher, and Sue Samuels.

Reed was born and raised in central Iowa. He resides in picturesque Durango, Colorado with his wife Katherine, who is the Director of Instrumental Music at Durango High School, and their two Vizsla dogs Penny and Wrigley.

Improving Brass Pedagogy

Issues and Myths

- Phrases to avoid
 - Breath from the diaphragm
 - Support the wind
 - Keep a tight abdomen
 - Push the wind
 - Breathe through your nose
- Bad embouchure habits
 - Stretching the lips
 - Smiling while playing
 - Puffing the cheeks
- Syllable shifting
 - Change for different registers
 - “ah-ee” for ascending
- Avoid thinking about pivoting
 - A natural pivot does occur
 - A conscious pivot is distracting

The Breath

- Why is teaching the breath so important?
 - Air is to the wind player as gas is to an automobile
 - We use only 11% of our total lung capacity for daily activities
 - Amount of lung capacity is determined by various factors
 - Age
 - Height
 - Sex
 - See chart that follows

Lung Capacities

	20	25	30	35	40	45	50	55	60	65	70	75	80
4'	1.8	1.8	1.7	1.7	1.6	1.5	1.5	1.4	1.3	1.2	1.1	1.0	0.9
4' 1"	1.9	1.8	1.8	1.7	1.7	1.6	1.5	1.4	1.3	1.3	1.2	1.1	1.0
4' 2"	2.0	1.9	1.9	1.8	1.7	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0
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5'	2.8	2.8	2.7	2.6	2.5	2.4	2.3	2.1	2.0	1.9	1.7	1.6	1.4
5' 1"	2.9	2.9	2.8	2.7	2.6	2.5	2.3	2.2	2.1	1.9	1.8	1.6	1.5
5' 2"	3.0	3.0	2.9	2.8	2.7	2.5	2.4	2.3	2.2	2.0	1.9	1.7	1.5
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7' 5"	6.3	6.1	5.9	5.7	5.5	5.2	5.0	4.7	4.4	4.1	3.8	3.5	3.1

Estimated vital capacities for females in liters. Follow height (in left column) and age (at top, in five year increments). Based on a formula from the American Thoracic Society

	20	25	30	35	40	45	50	55	60	65	70	75	80
4'	2.1	2.1	2.0	2.0	1.9	1.8	1.8	1.7	1.6	1.5	1.4	1.3	1.2
4' 1"	2.2	2.2	2.1	2.1	2.0	1.9	1.8	1.8	1.7	1.6	1.5	1.4	1.3
4' 2"	2.3	2.3	2.2	2.1	2.1	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3
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6' 11"	6.4	6.2	6.1	5.9	5.7	5.5	5.3	5.0	4.8	4.5	4.2	4.0	3.7
7"	6.5	6.4	6.2	6.0	5.8	5.6	5.4	5.2	4.9	4.6	4.4	4.1	3.7
7' 1"	6.7	6.5	6.4	6.2	6.0	5.8	5.5	5.3	5.0	4.7	4.5	4.2	3.8
7' 2"	6.8	6.7	6.5	6.3	6.1	5.9	5.7	5.4	5.1	4.9	4.6	4.3	3.9
7' 3"	7.0	6.8	6.7	6.5	6.3	6.0	5.8	5.5	5.3	5.0	4.7	4.4	4.0
7' 4"	7.2	7.0	6.8	6.6	6.4	6.2	5.9	5.7	5.4	5.1	4.8	4.5	4.1
7' 5"	7.3	7.2	7.0	6.8	6.5	6.3	6.1	5.8	5.5	5.2	4.9	4.6	4.2
7' 6"	7.5	7.3	7.1	6.9	6.7	6.4	6.2	5.9	5.6	5.3	5.0	4.7	4.3

Estimated vital capacities for males in liters. Follow height (in left column) and age (at top, in five year increments). Based on a formula from the American Thoracic Society

Excerpted from *Arnold Jacobs: Song and Wind*, by Brian Frederiksen. p. 114-115. Used by permission.

Breathing Goals

- A free-flowing and relaxed breath is most desirable
 - Tension is the brass player's worse enemy
- Two basic syllables
 - "Oh" for inhalation
 - "Toh" for exhalation
 - Stress a warm breath
 - A good breath has a yawn-like quality
- Circular motion
 - Conceptualize as one circular motion
 - Clock imagery
 - Start at twelve and inhale as you move counterclockwise
 - Begin exhaling at six and continue back towards twelve
- Student struggles?
 - Wind patterns may help

Breathing Checklist

- Breathe from the bottom up
 - RH on stomach, LH on rib cage
 - RH moves first, LH moves last
- Breath across tongue, not roof of mouth
 - Strive to make cold spot on back of the throat
- Tension can come from
 - Tightness in chest
 - Constriction in throat
 - Arching of the tongue
 - Teeth being too close together
- Shoulders should remain neutral
- No unnecessary movement
 - This is wasted energy
- Air is released, not forced

Breathing Exercises

- In/out for various counts
 - 4/4
 - 2/4
 - 1/4
 - 1/4
 - 1/etc...
- Paper in front of face
 - 1) Hold paper close to face
 - 2) Blow paper with steady airstream
 - 3) Keep paper elevated for as long as possible
 - 4) Start close to face and gradually move further away
- Paper on binder/stand
 - 1) Adjust stand to height of student's face
 - 2) Paper on binder; half on/off
 - 3) Blow paper off of the stand
 - Careful not to force
- Air through the instrument
 - Seal around mouthpiece or leadpipe
 - Shows how easily air will move through the instrument
 - Reinforce warm, moist air
- Fog
 - Hand
 - Bell of instrument
 - Mirror
- Pinwheel
- Tube
- Bag

Other Breathing Advice

- Breathe in-style and in-tempo
 - Slower for adagio
 - Faster for allegro
- Internal breaths are just as important as the initial breath
 - **You Are Only As Good As Your Last Breath**
- Breathing too much?
 - Can cause hyperventilation
 - Causes tension by adding good air on top of good air
- Try to expel most of the air in lungs before breathing again
- Exhale before breathing; this ensures a fresh, full breath
- Work on breathing exercises at the onset of every practice session or rehearsal

Singing

- Why sing?
 - Instruments emulate voice
 - Clear indicator of what is in the mind
 - Sing as instrument sounds
 - Full
 - With the desired articulation
 - **Toh, toh, toh...**
 - **Tah, tah, tah...**
 - Gets horn off face
- The mind's instrument
 - Comprised of most beautiful sounds one has ever heard
 - Goal setter
 - Comes from?
 - Teachers
 - Colleagues
 - Live performances
 - Student's own playing history
 - Recordings
 - Helps to develop relative pitch

Buzzing

- Is the foundation of the sound
 - Brass players sing from their lips
- The instrument is amplification
- Eliminates instrument
 - No resistance means that air depletes faster.
 - Thus, full breaths are a must
 - Frees performer from inborn pitch tendencies of instrument
 - Allows focus on sound
 - No fingers and/or slides
- Substitute for instrument practice
- Enhanced by buzzing devices (all retail under \$20. Windsong Press Limited carries a wide array for buzzing and breathing devices. www.windsongpress.com)
 - B.E.R.P. (Buzz extension resistance piece)
 - Buzz aid
 - Buzz clip
 - Embouchure visualizer

Mouthpiece Tunes

- | | |
|--|--|
| • <i>Mary Had a Little Lamb</i> | • <i>Ode to Joy</i> |
| • <i>Twinkle, Twinkle, Little Star</i> | • <i>Work Song</i> |
| • <i>Yankee Doodle</i> | • <i>Joy to the World</i> |
| • <i>Silent Night</i> | • <i>I've Been Working on the Railroad</i> |
| • <i>Happy Birthday</i> | • <i>I'm a Little Tea Pot</i> |
| • <i>Hot Cross Buns</i> | • <i>Somewhere Over the Rainbow</i> |
| • <i>Camptown Races</i> | • <i>Auld Lang Syne</i> |
| • <i>Amazing Grace</i> | • <i>'Tis a Gift to be Simple</i> |
| • <i>Danny Boy</i> | • <i>Away in a Manger</i> |
| • <i>Aura Lee (Love Me Tender)</i> | • <i>Hail to the Chief</i> |
| • <i>O Christmas Tree</i> | • <i>Greensleaves</i> |
| • <i>God Bless America</i> | • <i>Rudolph The Red Nosed Reindeer</i> |
| • <i>My Country 'Tis of Thee</i> | • <i>Taps</i> |
| • <i>America</i> | • <i>Take Me Out to the Ballgame</i> |
| • <i>Star Spangled Banner</i> | • <i>London Bridge is Falling Down</i> |

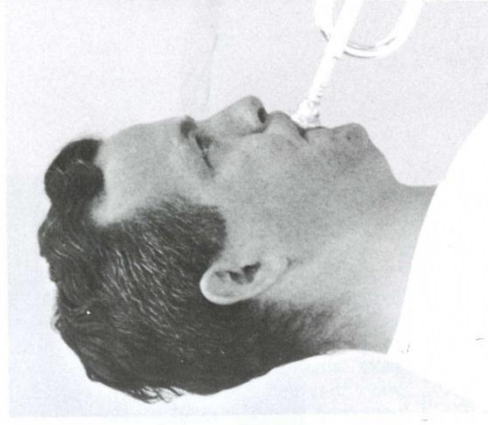
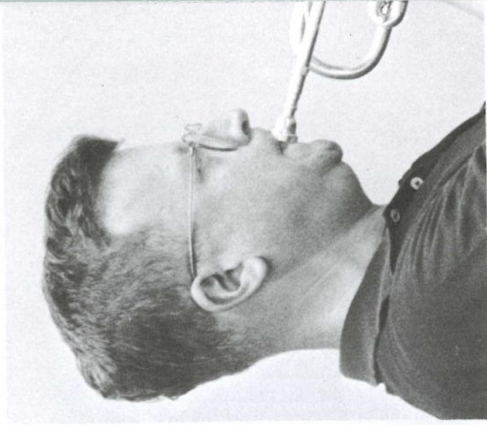
Mouthpiece Melodies

compiles by Arnold Jacobs

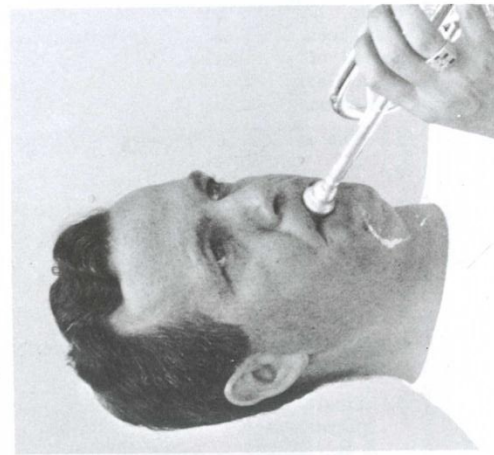
A Bicycle Built for Two	Joyful, Joyful We Adore Thee
A Hunting We Will Go	Joy to the World
All Through the Night	Kum Ba Yah
Alouette	Lightly Row
Alphabet Song	Little Liza Jane
America the Beautiful	London Bridge is Falling Down
Angels We Have heard on High	Long, Long Ago
As the Caissons Go Rolling Along	Marines Hymn
Auld Lang Syne	Mary Had A Little Lamb
Aura Lee	Merrily We Roll Along
Away in a Manger	My Darlin' Clementine
Baa, Baa Black Sheep	Muffin Man
Battle Hymn of the Republic	O Come All Ye Faithful
Billy Boy	O Little Town of Bethlehem
Blow the Man Down	Oh Susannah
Blue Bells of Scotland	Old Folks at Home
Brahms Lullaby	Old McDonald
Can Can	Old Gray Mare
Camptown Races	On Top of Old Smokey
Clementine	Onward Christian Soldiers
Deck the Halls	Pop Goes the Weasel
Dixie	Prayer of Thanksgiving
Do, A Deer	Red River Valley
Down in the Valley	Ring Around the Rosie
Farmer in the Dell	Rock of Ages
First Noel	Row, Row, Row Your Boat
For He's a Jolly Good Fellow	Rudolph the Red Nosed Reindeer
Frosty the Snowman	She'll be Comin' Round the Mountain
God Bless America	Shoo Fly
God Rest Ye Merry Gentlemen	Shortnin' Bread
Good King Wenceslas	Silent Night
Goodnight Ladies	Skip to My Lou
Go Tell Aunt Rhodie	Street of Laredo
Go Tell It On the Mountain	Swanee River
Grandfather's Clock	Sweet Betsy from Pike
Greensleeves	Swing Low, Sweet Chariot
Hail, Hail the Gang's All Here	Take Me Out to the Ballgame
Happy Birthday	Taps
Hark the Herald Angels Sing	Ten Little Indians
Here We Go Round the Mulberry Bush	This Land is Your Land
Hickory Dickory Dock	This Old Man
Hogan's Heroes	Three Blind Mice
Home on the Range	Twinkle, Twinkle Little Star
Home Sweet Home	We Gather Together
Hot Cross Buns	We Three Kings
How Dry I Am	We Wish You a Merry Christmas
How Much Is That Doggie	What Child Is This?
I'm a Little Teapot	When Johnny Comes Marching Home
I'm a Yankee Doodle Dandy	White Christmas
It Came Upon the Midnight Clear	Yankee Doodle
Itsy Bitsy Spider	Yellow Rose of Texas
I've Been Working on the Railroad	You Are My Sunshine
Jesus Loves Me	Zippity Doo Dah
Jimmy Crack Corn	
Jingle Bells	

Embouchure

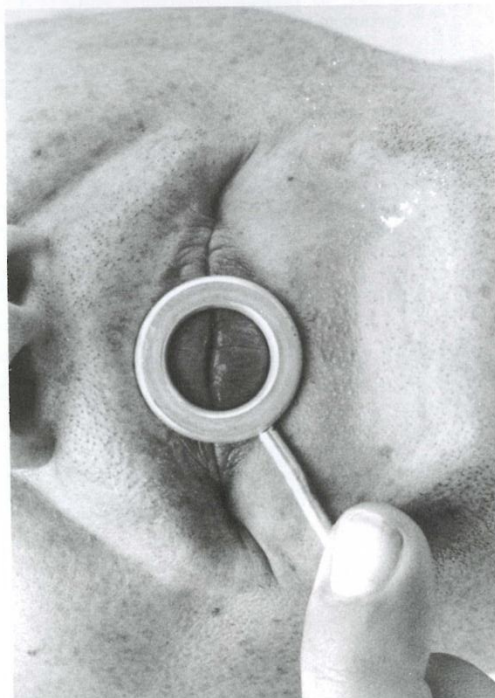
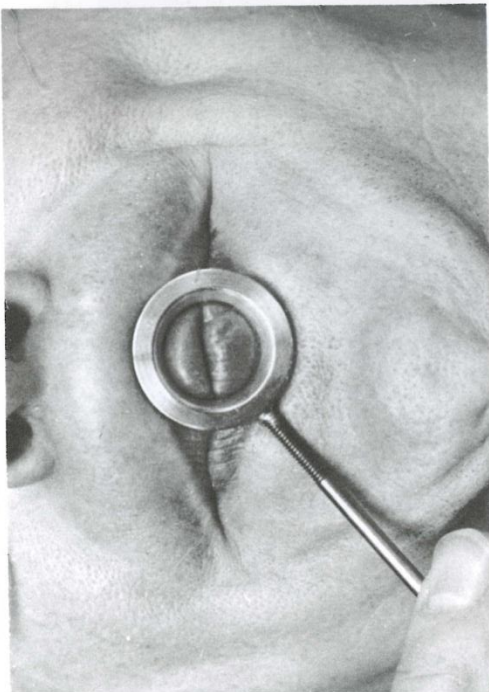
- Problems
 - Most are caused by deficient airflow
- Function
 - Centers pitch
 - Creates timbre
 - Responds to air column
- Is tissue
- A good embouchure
 - Is supple and responsive
 - Is strong but not rigid
 - Think palates, not Mr. Olympia
 - Is initiated by air
- Is different for each person, yet fine ones often share similar traits
 - Firm corners
 - Flat chin (v-shape)
 - Slight pucker
 - Important not to stretch the lips outward or smile
 - Lack of air pockets (anti Gillespie)
 - Similar instrument angles
 - Minimum pressure
 - The idea of using no pressure is false
- Photographic examples from the 1959-1960 Chicago Symphony Orchestra Brass Section
 - Excerpted from *The Art of Brass Playing*, by Philip Farkas. p. 25-31. Used by permission.

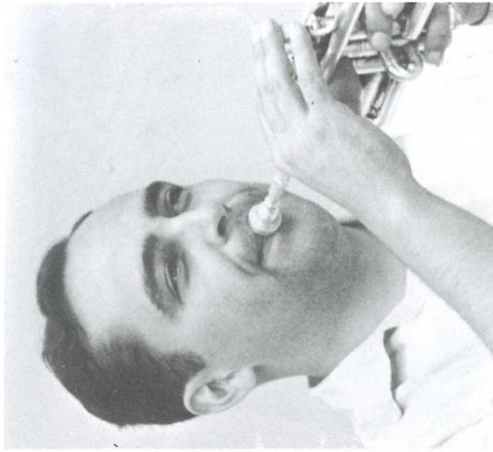
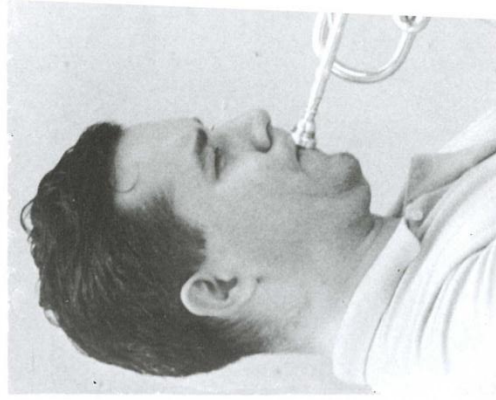
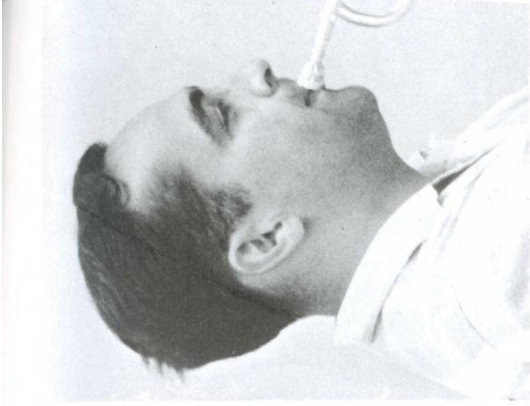


Adolph Herseth

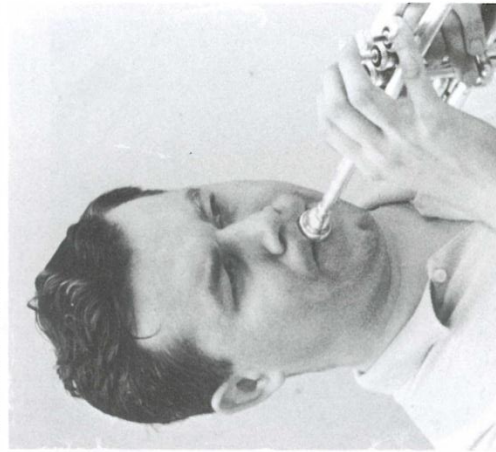


Rudolph Nashan

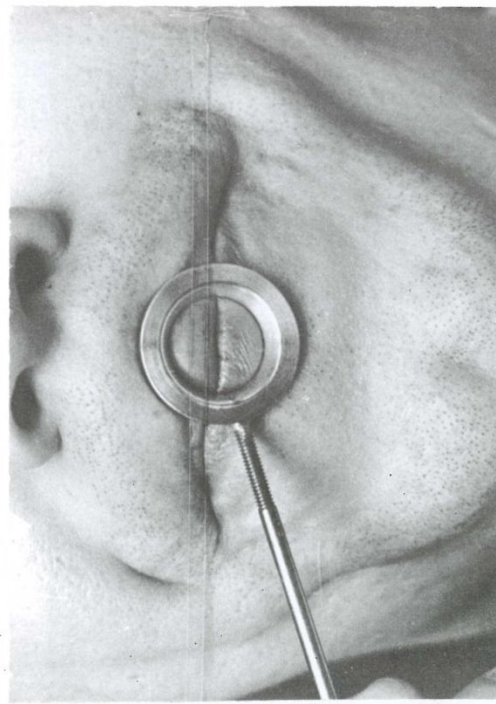
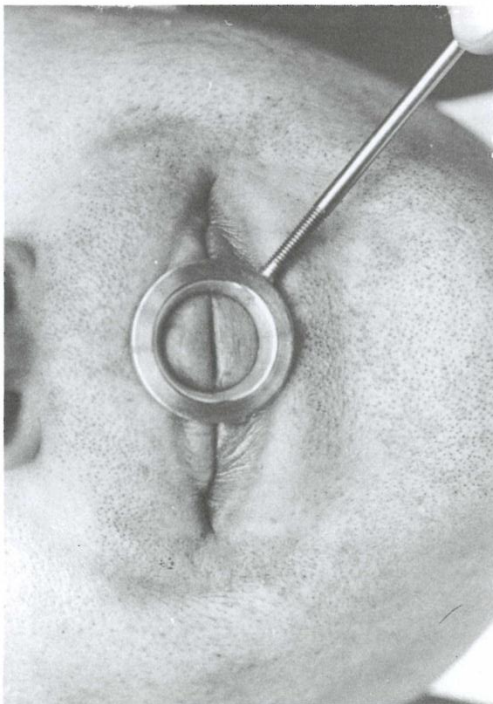


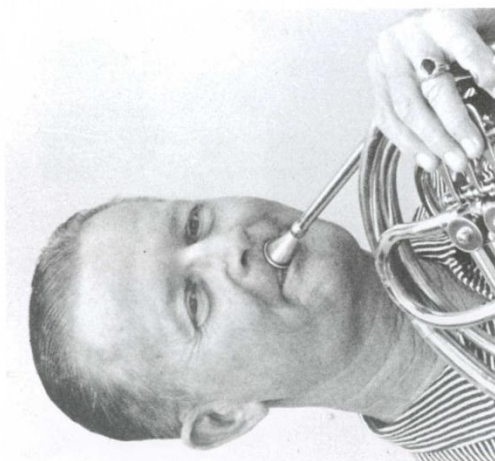
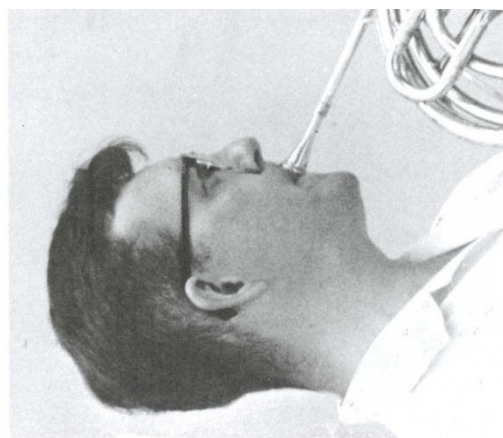


Frank Kaderabek



Vincent Cichowicz

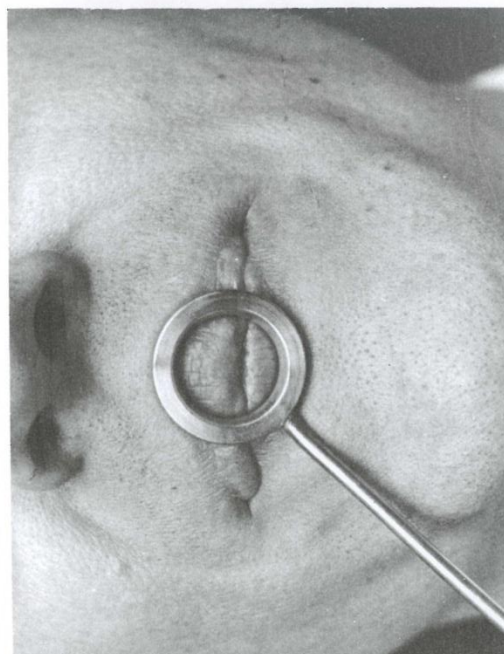
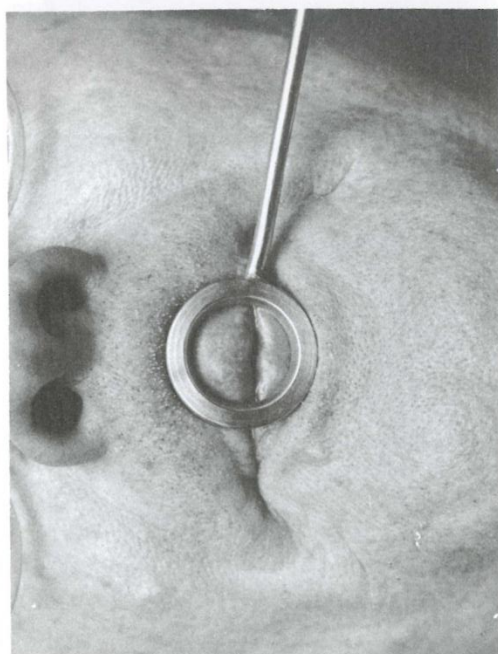


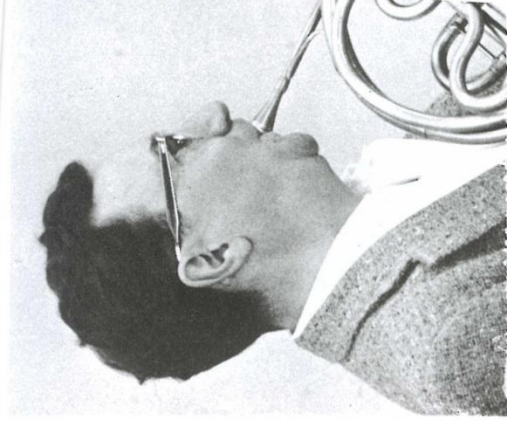


Joseph Mourek



Wayne Barrington

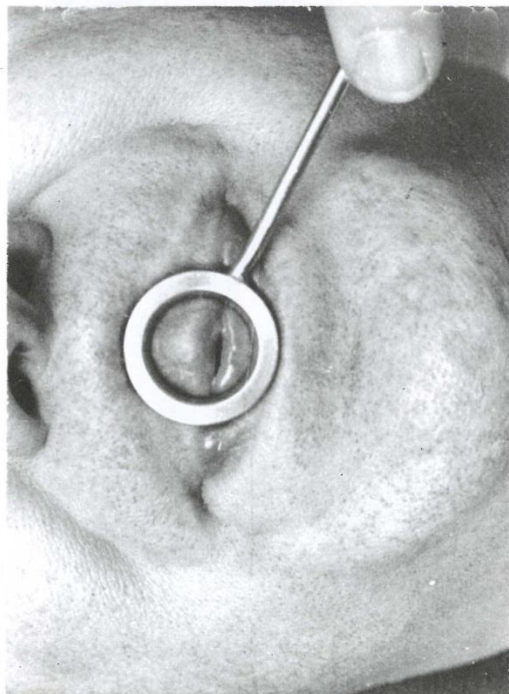
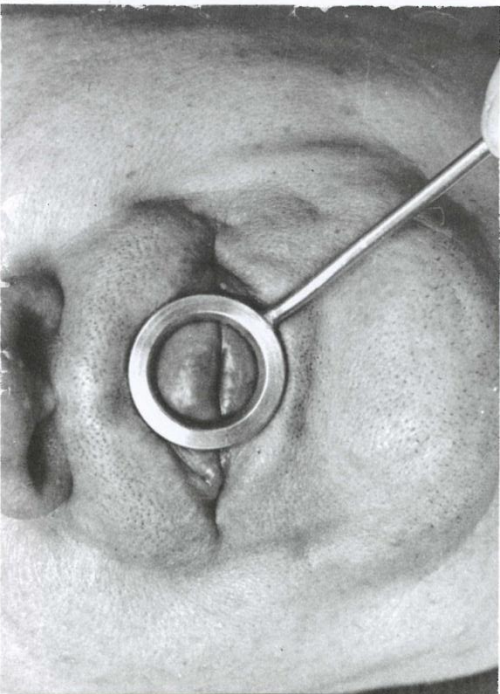


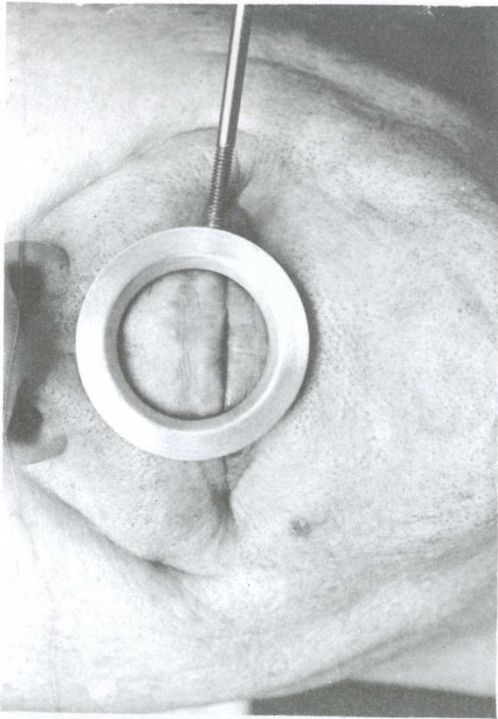


Clyde Wedgwood

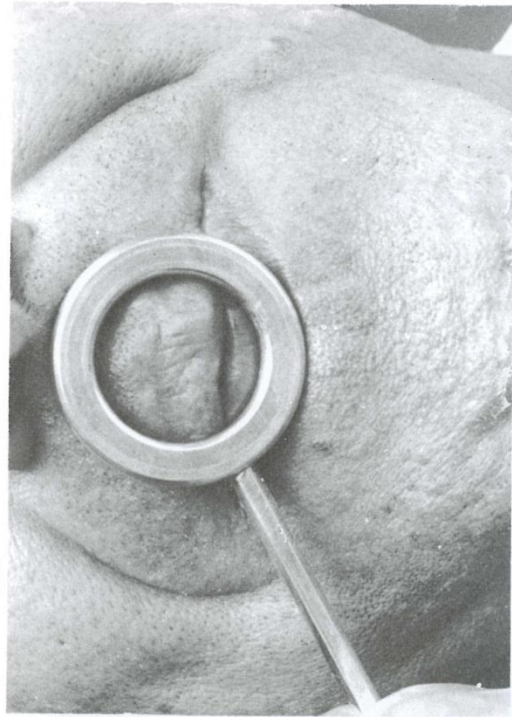


Philip Farkas





Robert Lambert



Frank Crisafulli



Beginner Mouthpiece Placement

- Mouthpiece should sit in the center of the lips
 - There should be equal top vs. bottom lip (higher for horn)
 - Will shift to fit each individual over time
- Lip function
 - Top lip is the buzzer
 - Bottom lip buzzes sympathetically
- Getting the first sound
 - 1) Free buzz without the mouthpiece
 - 2) Free buzz and add the mouthpiece while buzzing
 - 3) Mouthpiece buzzing

Articulation

- Is to the brass player as diction is to the singer
 - If one can speak, one can articulate
- Common articulations
 - Tu
 - For staccato and marcato
 - Does not stop the air, simply interrupts it
 - Du
 - For legato
 - Be careful as some will try to omit the initial attack
 - Variations
 - There are countless variations that are determined by musical nuance

Improving Articulation

- Sing
- Sound is
 - 90% air, 10% tongue
- Cichowicz wind patterns
 - Best remedy for tonguing issues
 - Emphasizes and reinforces a constant wind stream
 - Shows balance between wind and consonance
- On Instrument
 - Articulate rhythm on a stationary pitch
 - Slur the passage
 - Shows air flow needed to navigate the passage
- Check fingers or slide technique
 - Poor technique could impede good articulation

Final Thoughts

- Be positive
 - Negativity is a cancer
 - Try to avoid chastising players for missed notes
 - Breads tentative playing
- It is better to say too little than too much
 - If in doubt, contact a brass player (or me☺)
- Goals of brass performance
 - Always play with a beautiful sound
 - If it does not sound beautiful, no one wants to hear it
 - All brass playing choices should be based on musical **not** physical decisions

Suggested Reading

General Brass Pedagogy

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Phillips, Harvey, and William Winkle. *The Art of Tuba and Euphonium*. Miami, FL: Summy Bichard, 1992.

Stewart, M. Dee. *Arnold Jacobs: The Legacy of a Master*. Chicago, IL: The Instrumentalist, 1987.

*Each instrument has its own professional organization whose mission is to foster its respective discipline. Memberships are reasonable, and include published and online journals that have a wealth of pedagogical information.

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Dunkel, Stuart Edward. *The Audition Process: Anxiety Management and Coping Strategies*. Hillsdale, NY: Pendragon Press, 1991.

Farkas, Philip. *The Art of Musicianship: A Treatise on the Skills, Knowledge, and Sensitivity Needed by the Mature Musician to Perform in an Artistic and Professional Manner*. Atlanta, GA: Wind Music Publications, 1976.

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