

Effective Communication
Tips and Techniques for
the Trainer in the Age of Google
and
Strategies to Deal with Students –
Who Know-It-All and Need To Prove It.

West Virginia University

Extension Service

Institute for Labor Studies and Research

Objectives

- Demonstrate effective communication
 - Discuss Effect. Comm. dos and don'ts
- Explain incorporation of Google searches
 - Demonstrate: Atomic Man, general facts, SDS
- Demonstrate cellphone applications
 - Frequency generator / GMS / Drager
- Discuss problematic student issues
 - Demonstrate solution methods
- Discuss your questions and comments

Communication?

- Effective communication results in mutual understanding
 - Are you clear about what you tell others?
 - Do you understand what is said to you?
 - Are you sure?

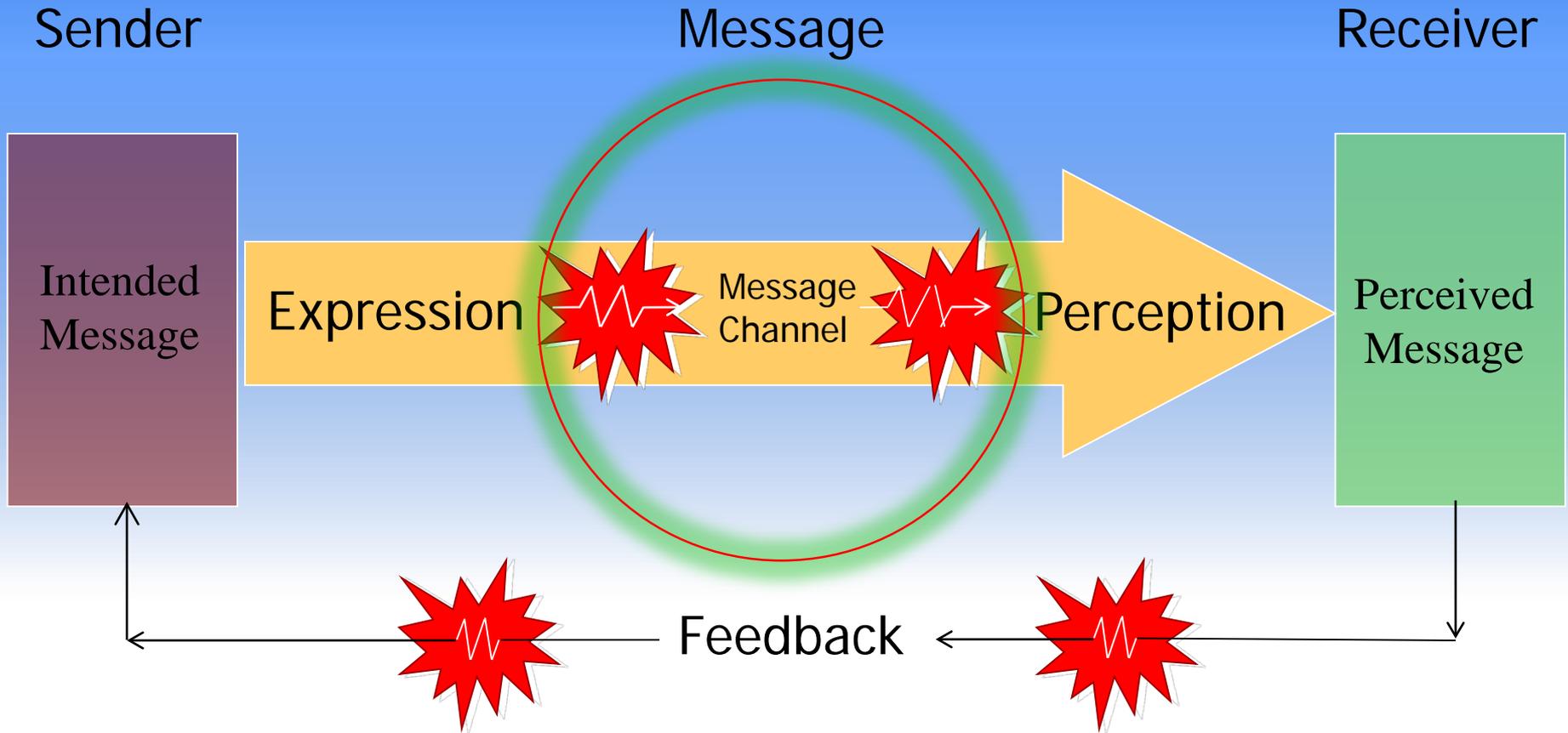
Listening Activity

- Please listen carefully for instructions
- Do not talk
- Do not ask questions
- Again, No talking
- What if this had been a safety briefing

Five Parts of Communication

- ▶ Sender of the message
- ▶ Message Sent
- ▶ Channel (message medium/format)
- ▶ Receiver of message
- ▶ Message received

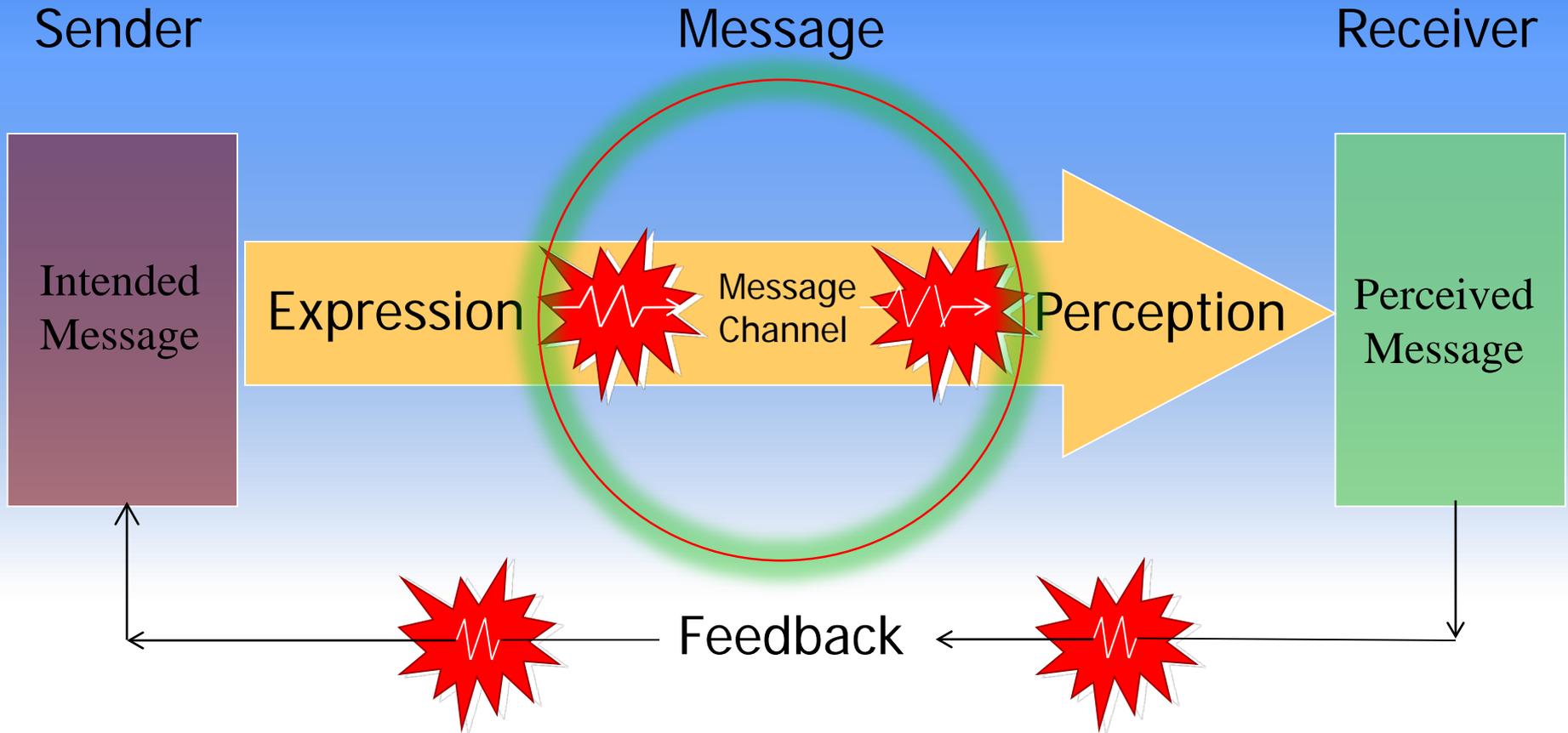
Communication Process



Feedback

- Are you talking to each of your students or talking at them?
 - Eye contact
 - “Look at me when I’m talking to you!”
- Are you listening?
- Are your students talking to you?
 - Maintaining eye contact
 - Asking questions

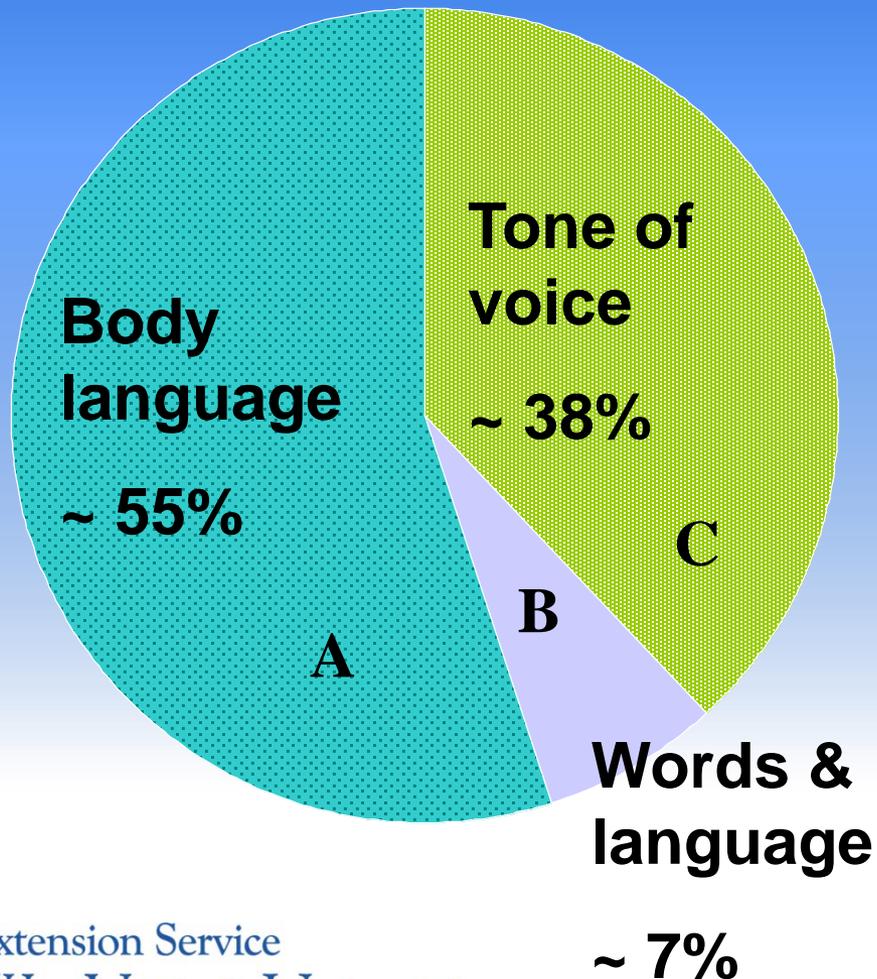
Communication Process



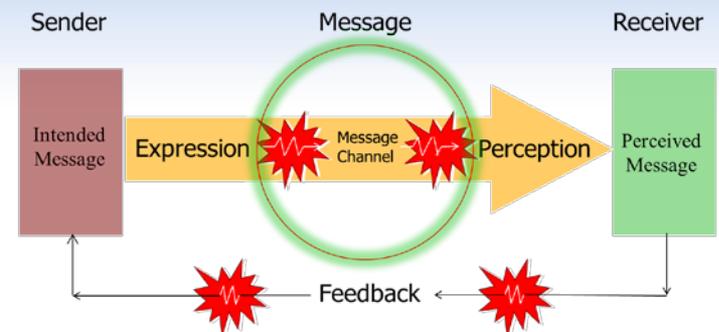
The Dos

- Teach like their life depends on the info
- Repeat a question before answering it
- Respect an opinion
 - Two sides to every coin
 - Reject an inappropriate comment
- Connect with each student
 - Look them in the eye
 - Use their name when possible
 - Smile and laugh
 - Your non-verbal speaks volumes

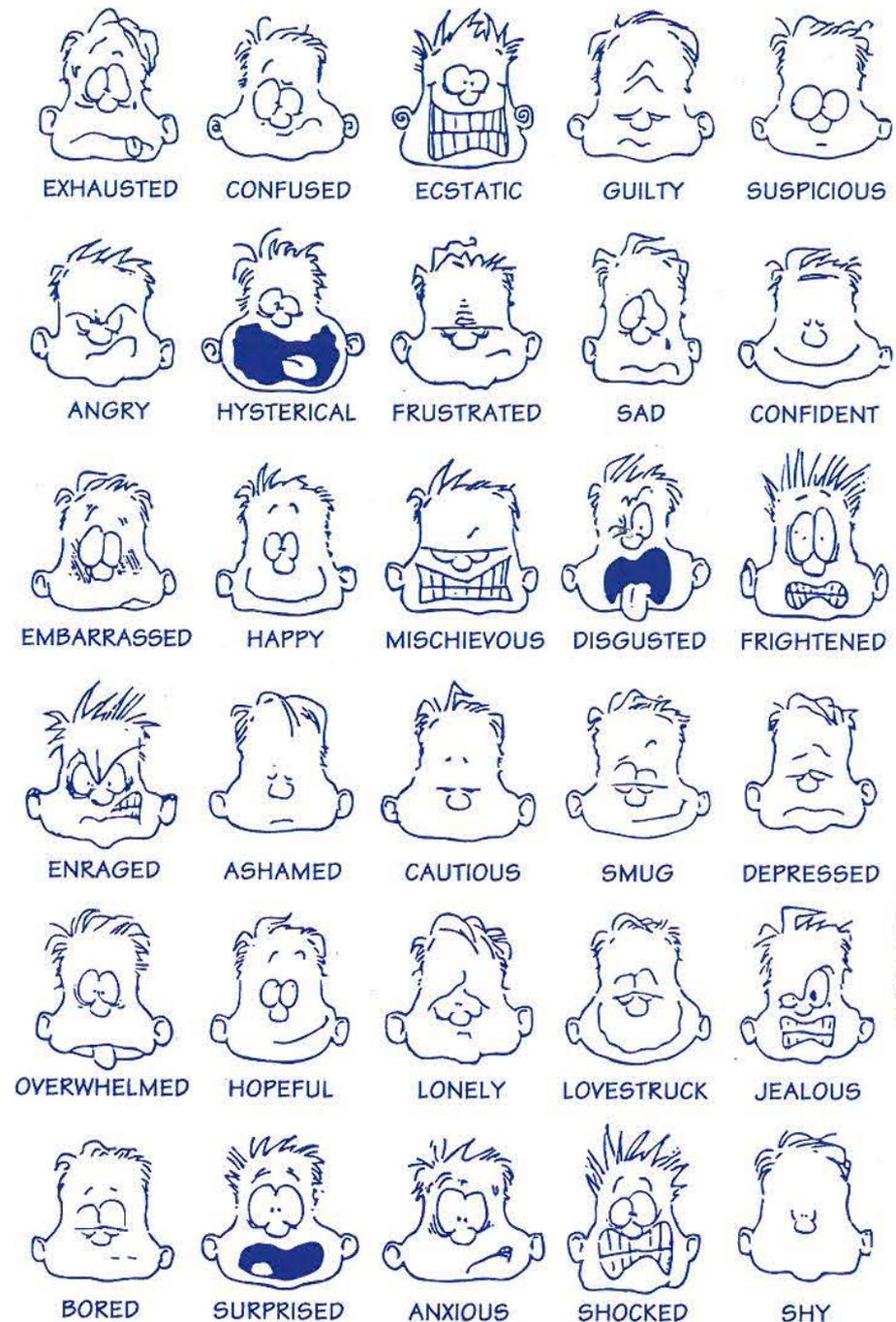
How We Communicate (Message Channel)



- Words & language
 - Verbal
- Tone of voice
- Body language
 - Non-verbal



- Non-verbal communication matters
- Remember... you are always talking even when you're not



The Do Nots

- Don't say something without thinking about the implications
- Don't forget what your non-verbal says
- Don't rush to make a judgement
- Don't lose your composure
- Don't forget...
 - It's your class and your responsibility for everything that happens during class
 - (sometimes even during breaks)

The Best Trainers...

- Engage and challenge you to think
- Draw you into the class discussion
- Effect a lasting memory of learning
- Offer personal experiences
 - Fireside chat



- Leave you
wanting more



Google: Atomic Man

Atomic man - Google Search

https://www.google.com/search?source=hp&ei=-ajxWvaUMZK2ggfSlbngDA&q=Atomic+m

Atomic man

All Images Shopping Videos News More Settings Tools

About 95,800,000 results (0.48 seconds)



Portugal. The Man - Atomic Man [Official Music Video] - YouTube
<https://www.youtube.com/watch?v=RmUzdNLDLmI>

Lyrics
After you, I don't know what I believe in
After you, hell should be easy
After you, I don't know what I believe in
After you, hell should be easier... [More](#)

Available on

- Spotify
- Play Music
- Deezer

Artist: [Portugal. The Man](#)
Album: [Evil Friends](#)
Released: 2013

See results about

[Timeslip \(1955 film\)](#)
Release date: March 4, 1956 (USA)
Director: Ken Hughes



Google: Atomic Man

Atomic man - Google Search

https://www.google.com/search?source=hp&ei=-ajxWvaUMZK2ggfSlbngDA&q=Atomic+m

90%

Search

Purple Yellow Red and Blue Portugal. The Man
Modern Jesus Portugal. The Man
Creep in a T-Shirt Portugal. The Man
Hip Hop Kids Portugal. The Man
All Your Light Portugal. The Man
People Say Portugal. The Man

Feedback

The Tragic Tale of Atomic Man: Life as a Radioactive Human - Gizmodo
<https://gizmodo.com/the-tragic-tale-of-atomic-man-the-most-radioactive-hum-160144...>
Jul 9, 2014 - When the accident happened on August 30, 1976, McCluskey had just returned to his job as a technician after a five-month strike had shut down the Plutonium Finishing Plant at Hanford. ... He was exposed to the highest level of radioactive americium ever recorded. ... The nurses scrubbed ...

Portugal. The Man – Atomic Man Lyrics | Genius Lyrics
<https://genius.com/P/Portugal-The-Man>
Atomic Man Lyrics: You're feeling tired, I know three is a crowd / But if I bring along a friend it'll be fine for now / Man I can't help it I'm just always in the middle / Read the bible in the.

Atomic Man - Wikipedia
https://en.wikipedia.org/wiki/Atomic_Man
Atomic Man is a fictional superhero created by Charles Voight who first appeared in Headline Comics #16-21 (1945). He is also the first atomic superhero. Origin story[edit]. Dr. Adam Mann was experimenting with uranium-235 after the first atomic bomb was used. During the experiment he suffered a side effect from the ...

The Atomic Man (1955) - IMDb
<https://www.imdb.com/title/tt0048964/>
★ ★ ★ ★ Rating: 5.4/10 - 186 votes
With Gene Nelson, Faith Domergue, Peter Arne, Joseph Tomelty. An atomic scientist is found floating in a river with a bullet in his back and a radioactive halo around his body. The radioactivity has put him seven-and-a-half seconds ahead of us in time. He teams up with a reporter to stop his evil double from destroying his ...

Portugal. The Man Lyrics - Atomic Man - AZLyrics
<https://www.azlyrics.com/P/Portugal-The-Man-Lyrics>
Lyrics to "Atomic Man" song by Portugal. The Man: You're feeling tired I know three is a crowd But if I bring along a friend it'll be fine for now Man...

Scientists replicate 1976 "Atomic Man" incident in Oak Ridge
<https://www.knoxnews.com/story/news/2017/08/14/...atomic-man.../536308001/>
Aug 14, 2017 - Nearly 41 years ago, the "Atomic Man" survived the highest Americium radiation dose ever recorded. An Oak Ridge duo just replicated the incident.

Atomic Man by Portugal. The Man | Free Listening on SoundCloud
<https://soundcloud.com/portugaltheman/atomic-man>

Wikipedia: Atomic Man

Atomic man - Google Search | W Atomic-Man - Wikipedia | Harold McCluskey - Wikipedia

https://en.wikipedia.org/wiki/Atomic-Man 120%

Not logged in | Talk | Contributions | Create account | Log in

Article | Talk | Read | Edit | View history | Search Wikipedia

Atomic-Man

From Wikipedia, the free encyclopedia

This article is about the Headline Comics character. For the technician who was exposed to americium radiation and became known as The Atomic Man, see [Harold McCluskey](#). For the song by Portugal, The Man, see [Evil Friends](#).

Atomic-Man is a fictional superhero created by Charles Voight who first appeared in *Headline Comics* #16-21 (1945). He is also the first atomic superhero.^{[1][2][3][4]}

Origin story

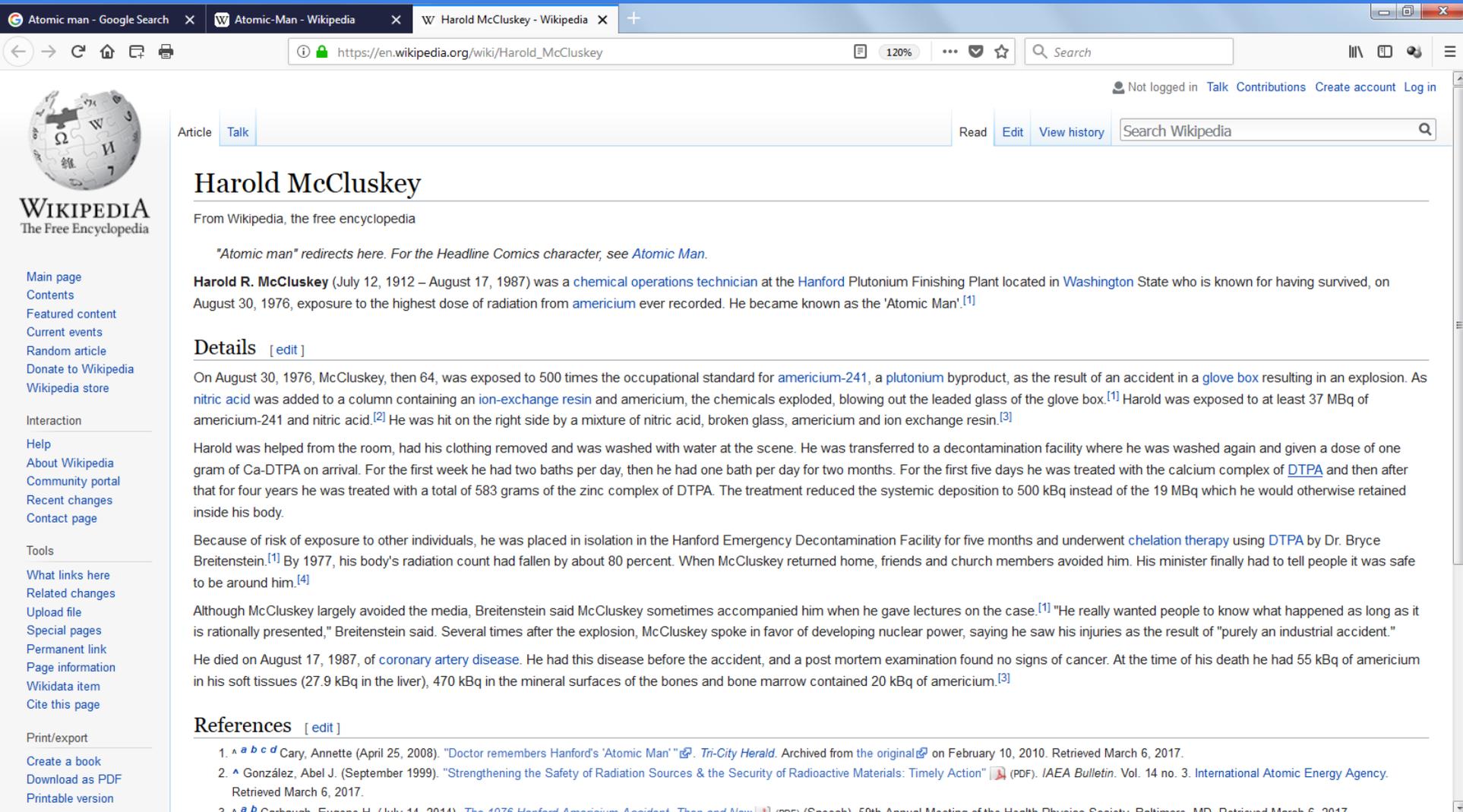
Dr. Adam Mann was experimenting with uranium-235 after the first atomic bomb was used. During the experiment he suffered a side effect from the uranium changing him into the superhuman being known as the Atomic-Man. His superpowers include "Atomic Blasts", flight, invulnerability, and super strength.

References

- [↑] "Atomic-Man". [comicvine.com](#). Retrieved 5 December 2013.
- [↑] "The Superhero Book: The Ultimate Encyclopedia of Comic-book Icons". [booksgoogle.com.np](#). Retrieved 5 December 2013.
- [↑] "GCD :: Issue :: Headline Comics". [comics.org](#). Retrieved 5 December 2013.
- [↑] "COMIC BOOK COMPULSIVE — Headline Comics". [superitch.com](#). Retrieved 5 December 2013.

Golden Age of Comic Books		[hide]
All-American Comics	The Atom (Al Pratt) · Black Canary · Doctor Mid-Nite · Doiby Dickles · The Flash (Jay Garrick) · The Gay Ghost · Green Lantern (Alan Scott) · Hawkgirl · Hawkman · Hop Harrigan · The King · Justice Society of America · Mister Terrific (Terry Sloane) · Johnny Thunder and Thunderbolt · Red Tornado (Ma Hunkel) · Sargon the Sorcerer · Ultra-Man · The Whip · Wildcat · Wonder Woman	
Archie Comics	The Black Hood · Captain Flag · The Comet · The Firefly · The Fox · The Shield · The Web · The Wizard	
Centaur Comics	Airman · Amazing-Man · The Arrow · The Clock · The Eye · The Phantom of the Fair · The Masked Marvel · Minimidjet	
National Allied	Air Wave · Aquaman · Batman · Crimson Avenger · Dan the Dyna-Mite · Doctor Fate · Doctor Occult · Genius Jones · Green Arrow · Guardian · Hourman · Johnny Quick (Johnny Chambers) · Liberty Belle · Manhunter · Merry, the Girl of 1000 Gimmicks · Mister America · Robin (Dick Grayson) · Robotman · Sandman · Sandy the Golden Boy · Shining Knight · The Spectre · Speedy (Roy Harper) · Star-Spangled Kid · Starman (Ted Knight) · Stripesy · Superboy (Kal-El) · Superman · Tarantula · TNT · Vigilante · Wing · Zatara · Seven Soldiers of Victory	
Fawcett Comics	Bulletgirl · Bulletman · Captain Marvel · Captain Marvel Jr. · Captain Midnight · The Golden Arrow · Ibis the Invincible · Lieutenant Marvels · Mary Marvel · Master Man · Minute-Man · Mr. Scarlet · Phantom Eagle · Pinky the Whiz Kid · Spy Smasher	
Fox Comics	Black Fury · Blue Beetle · The Bouncer · Bronze Man · Dynamo · The Flame · Green Mask · Samson · Spider Queen · Stardust the Super Wizard · U.S. Jones · V-Man · Wonder Man	
Norfolk	American Crusader · American Eagle · Black Terror · Captain Future · Cavalier · Doc Strange · Fighting Yank · The Ghost · Grim Reaper · Judy of the Jungle · Lance Lewis · Space Detective · Liberator ·	

Wikipedia: Harold McCluskey



The image is a screenshot of a web browser displaying the Wikipedia article for Harold McCluskey. The browser's address bar shows the URL https://en.wikipedia.org/wiki/Harold_McCluskey. The page title is "Harold McCluskey". The article text begins with a redirect notice: "*Atomic man*" redirects here. For the *Headline Comics* character, see *Atomic Man*. The main text states that Harold R. McCluskey (July 12, 1912 – August 17, 1987) was a chemical operations technician at the Hanford Plutonium Finishing Plant in Washington State, known for surviving an exposure to the highest dose of radiation from americium ever recorded on August 30, 1976. The article includes sections for "Details" and "References". The "Details" section describes the accident on August 30, 1976, where McCluskey was exposed to 500 times the occupational standard for americium-241, a plutonium byproduct, due to an explosion in a glove box. The "References" section lists four sources, including a *Tri-City Herald* article, an IAEA Bulletin, and a speech by Eugene H. Carbaugh.

Atomic man - Google Search X Atomic-Man - Wikipedia X Harold McCluskey - Wikipedia X

https://en.wikipedia.org/wiki/Harold_McCluskey

120% Search

Not logged in Talk Contributions Create account Log in

Article Talk Read Edit View history Search Wikipedia

Harold McCluskey

From Wikipedia, the free encyclopedia

"Atomic man" redirects here. For the Headline Comics character, see Atomic Man.

Harold R. McCluskey (July 12, 1912 – August 17, 1987) was a [chemical operations technician](#) at the [Hanford Plutonium Finishing Plant](#) located in [Washington State](#) who is known for having survived, on August 30, 1976, exposure to the highest dose of radiation from [americium](#) ever recorded. He became known as the 'Atomic Man'.^[1]

Details [edit]

On August 30, 1976, McCluskey, then 64, was exposed to 500 times the occupational standard for [americium-241](#), a [plutonium](#) byproduct, as the result of an accident in a [glove box](#) resulting in an explosion. As [nitric acid](#) was added to a column containing an [ion-exchange resin](#) and americium, the chemicals exploded, blowing out the leaded glass of the glove box.^[1] Harold was exposed to at least 37 MBq of americium-241 and nitric acid.^[2] He was hit on the right side by a mixture of nitric acid, broken glass, americium and ion exchange resin.^[3]

Harold was helped from the room, had his clothing removed and was washed with water at the scene. He was transferred to a decontamination facility where he was washed again and given a dose of one gram of Ca-DTPA on arrival. For the first week he had two baths per day, then he had one bath per day for two months. For the first five days he was treated with the calcium complex of [DTPA](#) and then after that for four years he was treated with a total of 583 grams of the zinc complex of DTPA. The treatment reduced the systemic deposition to 500 kBq instead of the 19 MBq which he would otherwise retained inside his body.

Because of risk of exposure to other individuals, he was placed in isolation in the Hanford Emergency Decontamination Facility for five months and underwent [chelation therapy](#) using DTPA by Dr. Bryce Breitenstein.^[1] By 1977, his body's radiation count had fallen by about 80 percent. When McCluskey returned home, friends and church members avoided him. His minister finally had to tell people it was safe to be around him.^[4]

Although McCluskey largely avoided the media, Breitenstein said McCluskey sometimes accompanied him when he gave lectures on the case.^[1] "He really wanted people to know what happened as long as it is rationally presented," Breitenstein said. Several times after the explosion, McCluskey spoke in favor of developing nuclear power, saying he saw his injuries as the result of "purely an industrial accident."

He died on August 17, 1987, of [coronary artery disease](#). He had this disease before the accident, and a post mortem examination found no signs of cancer. At the time of his death he had 55 kBq of americium in his soft tissues (27.9 kBq in the liver), 470 kBq in the mineral surfaces of the bones and bone marrow contained 20 kBq of americium.^[3]

References [edit]

- ↑ ^a ^b ^c ^d Cary, Annette (April 25, 2008). "Doctor remembers Hanford's 'Atomic Man'". *Tri-City Herald*. Archived from the original on February 10, 2010. Retrieved March 6, 2017.
- ↑ González, Abel J. (September 1999). "Strengthening the Safety of Radiation Sources & the Security of Radioactive Materials: Timely Action" (PDF). *IAEA Bulletin*. Vol. 14 no. 3. International Atomic Energy Agency. Retrieved March 6, 2017.
- ↑ ^a ^b Carbaugh, Eugene H. (July 14, 2014). *The 1976 Hanford Americium Accident: Then and Now* (PDF) (Speech). 59th Annual Meeting of the Health Physics Society, Baltimore, MD. Retrieved March 6, 2017.

Cellphone Applications

- LightsOn Safety Solutions
 - Gas Monitor Simulator
- Drager
 - Gas Detection Training
- IUOE National Training Fund
 - Confined Spaces 101
 - Excavations 101
 - Mold 101: Health & Safety
- Multiple developers
 - Tone (frequency) Generator

LightsOn - Gas Monitor Simulator



SOLUTION

SUPPORT

BLOG

CONTACT

ABOUT US

How To Get Started

Download the app on your student and trainer devices.

Visit the iTunes App Store to download the Gas Monitor Simulator® to your student and trainer devices.

Connect all devices to the same wireless LAN. Make sure that both students and trainers are connected to the same wireless LAN (802.11g).

Start training – and learning. You're ready to begin. Trainers can find detailed information on how to use the software in the [Gas Monitor Simulator® User Guide](#) and [Technical FAQ](#).

Gas Monitor Simulator® Real-time. Scenario-based. Life-saving.

The Gas Monitor Simulator® from LightsOn Safety Solutions is the first real-time tool that allows students to interpret gas readings accurately and realistically. Student responders see visual displays with real-time simulated hazardous gas readings and make tactical decisions based on those readings. Trainers are able to interact with students in the field, observe their reactions and observe that the students are interpreting readings accurately and effectively.

With this advanced yet simple solution, you can train anywhere you have access to a Wi-Fi network, using an iPhone, iPad or iPad touch.



What The Trainer Can Do

- Create scenarios using more than 15 gases and PIDs
- Send readings and messages to individual students or an entire team simultaneously
- Run multiple trainer-to-student sessions within an extended training area
- Control all aspects of the training session including visual and audible alarm levels
- Generate and save reports from training events ([sample report](#))



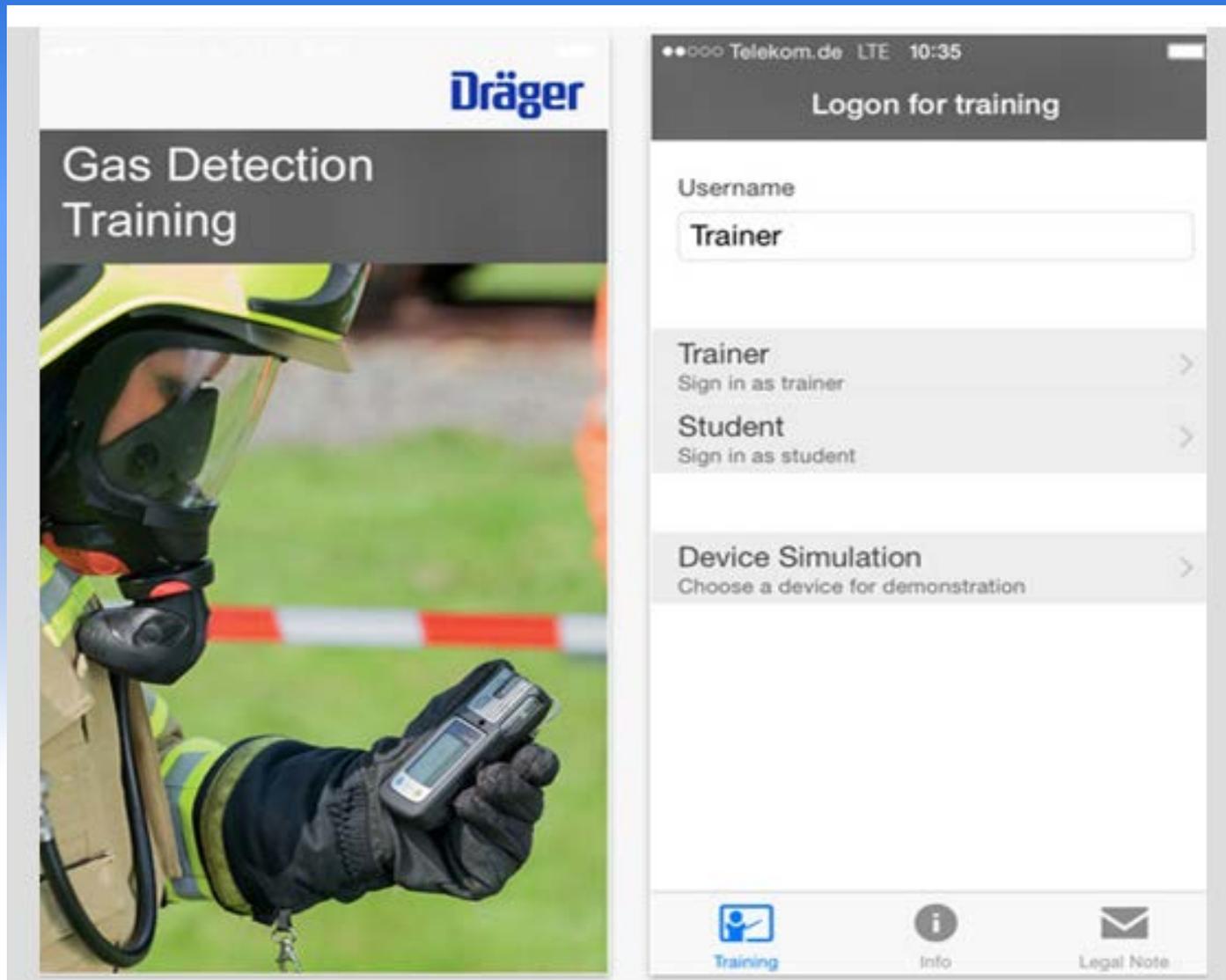
What The Student Can Do

- Receive simulated gas readings from trainer
- Receive visual and audible alarms when a simulated hazardous gas environment is encountered
- Receive and confirm text messages from the trainer

\\ Watch our interactive video of a real training scenario \\



Dräger - Gas Detection Training



Gas Monitor Simulator / Drager

Components you need:

- Wireless LAN
- Trainer device
 - Android
 - iPod touch, iPhone, or iPad
- Student device
 - Android
 - iPod touch, iPhone, or iPad
- Download and install free app from the Google Play Store or iTunes App Store

Tone Generator Pro



Tone Generator PRO

José Morais Music & Audio

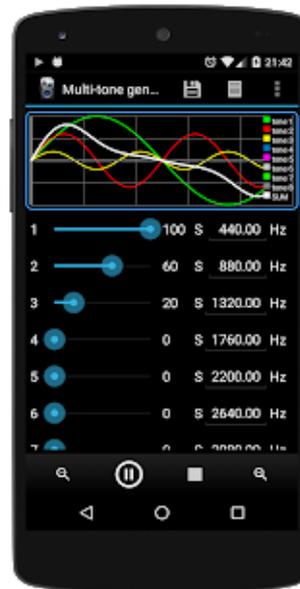
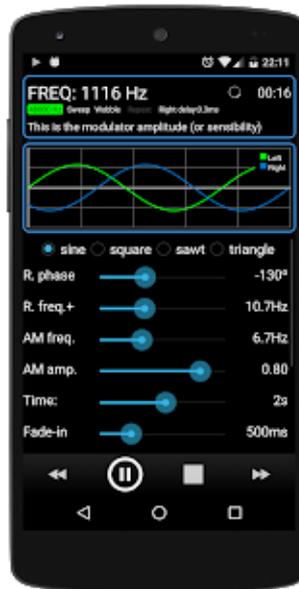
★★★★★ 9,383

Everyone

Contains Ads · Offers in-app purchases

Add to Wishlist

Install



WWW: Tone (Frequency) Generator

The screenshot shows a web browser window with the URL `onlinetonegenerator.com/432Hz.html`. The page features a sidebar on the left with navigation buttons for various audio tools: Time Stretcher (marked as NEW), Voice Generator, Sweep Generator, Instrument Tuning, Subwoofer Testing, Hearing Test, Noise Generator, Binaural Beats, 432Hz Frequency (highlighted), DTMF Signals, The Pips, Acoustic Theory, and About. The main content area contains a text block explaining the benefits of 432Hz, a control panel for a 1000 Hertz tone generator, and a volume slider. The control panel includes 'Play', 'Stop', and 'Save' buttons, and options for Sine, Square, Sawtooth, and Triangle waveforms. An advertisement for Experian is visible on the right, and a sponsored Amazon ad for Sennheiser headphones is at the bottom left. A video player at the bottom center shows a basketball game with the text 'Germany's Sacramento released which 1995 power heavy LP?' overlaid.

Online Tone Generator - 432Hz X

onlinetonegenerator.com/432Hz.html

Time Stretcher **NEW**

Voice Generator

Sweep Generator

Instrument Tuning

Subwoofer Testing

Hearing Test

Noise Generator

Binaural Beats

432Hz Frequency

DTMF Signals

The Pips

Acoustic Theory

About

Many people prefer the sound of 432Hz citing a calmer, more natural sound compared to its harsher relative, 440Hz. Skeptics will claim this is nothing more than pseudo-science. Here at OnlineToneGenerator.com, we have provided you with the tools to make your own mind up. Use the Tone Generator below to listen to the 432Hz online for free, and draw your own conclusions.

1000 Hertz

Play Stop Save

Volume

Sine Square

Sawtooth Triangle

amazon

Sennheiser HD 700...
\$449.00 Prime

Sponsored

Germany's Sacramento released which 1995 power heavy LP?

experian

60% of Social Security Numbers have been stolen by hackers.

FREE Dark Web Scan

WWW: Hearing Test

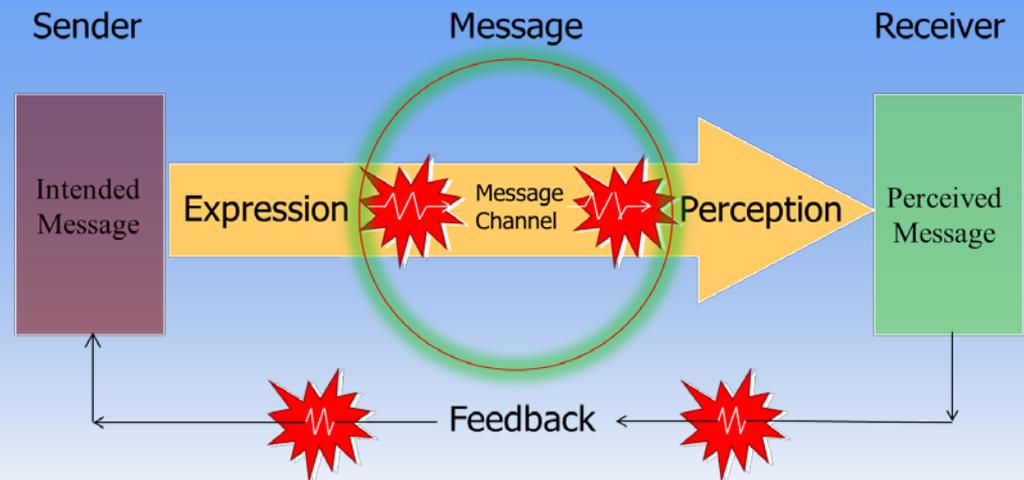
The screenshot shows a web browser window with the URL onlinetonegenerator.com/hearingtest.html. The page title is "Online Tone Generator". A sidebar on the left contains navigation buttons for various tools: Home, Pitch Shifter, Time Stretcher (NEW), Voice Generator, Sweep Generator, Instrument Tuning, Subwoofer Testing, Hearing Test (highlighted), Noise Generator, Binaural Beats, 432Hz Frequency, DTMF Signals, The Pips, Acoustic Theory, and About. The main content area features a green "CONTINUE" button, a "3 Easy Steps" list (1. Click "Continue", 2. Run and Install, 3. Open new Tab), and a "MyQuick IConverter" logo. Below this is a grey box with a play button and the text "Click the play button to begin the test." and "The current frequency is: 0 Hertz". An Amazon logo is visible in the bottom left corner of the page content.

Effective Communication Difficulties

- What can interfere with communication?

- External Noise
 - Other people
 - Other activities

- Internal noise
 - Other thoughts
 - Other topics of concern



The Problematic Student

- Always the first to answer every question
 - Correctly or incorrectly
- Knows it all...even if they don't
- Has to prove they know something you don't
- Always disagrees with you
- They...

Always has an answer...

- I think it should have been done...
- I did that years ago when I ...
- I would have done it by...

- You could have done that...
- You might want to consider doing...
- You should have seen the way I did...

Won't stop...

- Talking to the student next to them
- Taking phone calls during class
- Laughing loudly
- Using profanity

- Snoring
- Coughing
- Blowing nose

Discriminating remarks...

Age/Race/Color/Sex/National Origin

- They should have been...
- They don't deserve to...
- They need to be...

- We need to...
- You got to see this...
- What do you think about these...

What can you do?

- Talk to the student one-on-one
 - Explain the issue (they might not know)
 - Politely request a behavior change
- Remove student from the class
 - Temporarily or permanently
 - Do you have this option?
- Use communication as a tool
 - Your relative position to the student
 - Give them your back...literally
 - Continue talking (louder)...just don't stop!

Remember...

- Effective communication
 - Get feedback from you students
 - Connect or “talk” with each student
- Use Google to your advantage
 - Actively engage students with searches
- Incorporate cellphone applications
 - WISER / ERG / Company specific
- Problematic Students are humans also
 - Find a way to solve each type of issue

Questions?



Aaron A. Ondo

304.290.9202

Aaron.Ondo@mail.wvu.edu