

S	cience	
Three fundament	al activities:	
• doing	(observation, experimentation, methodology, technology)	
• thinking	(hypothetico-deductive logic, causality, interpretation)	
• communicating	(written language, <u>spoken language</u> )	] very ] different

1

### **Public speaking**

- integral part of science
   (assumed generic communication skill)
- information dissemination + promotion
   (science and scientist)
- institutionalized
   (lectures, seminars, workshops, conferences)
- nature versus nurture
   (definitely learnt skill, improves with practice)
- healthy ego (all feedback is 'constructive')

3

# TEN TIPSBack-engineer<br/>topicSix<br/>'W'sPUBLICWhy?<br/>Where?<br/>Who?SPEAKINGWhat?<br/>When?<br/>How?

4

6

2

# 1. Be clear of purpose!

### know precisely why you are speaking

- obtain brief from organizers
  - > content (topic, level, length, etc)
  - > process (oration, a-v presentation, workshop, etc)
  - > logistics (venue, facilities, audience, etc)

develop own goals
 (take-home messages)

- decide on style
  - (reminisce, informative, provocative) (be adventurous with story-lines, analogies, etc)

## 2. Reconnoitre the venue!

- walk the room (size, stage, screens, seating)
- test the technology (lights, microphone, computer, projector, etc)
- cater for recordings (media requirements, video, lighting, sound, etc)
- Murphy's Law (if something can go wrong, it will)
- do not be a techno-nerd! (have rescue strategies ready)

### 3. Know your audience!



### 4. Tell/sell a story!

make your story transparent to audience (develop logical thread, story-line)
have a beginning, middle and end (triple exposure rule = preview, view, review)
be prepared (practice, refine) (do not wing-it)
know your topic (be an advocate - enthusiasm is infectious)
use conversational language (beware of humour, personal anecdotes)

8

# 5. Watch the clock! • know the schedule (your spot, mental/nervous preparation) • expect delays

(garrulous comperes, questions, rowdy audiences) (do not feel pressured to make up time)

- practice your timing (watch/timer)
- know when to stop (better to finish early than to drone on)
- watch for audience 'tells' (fidget factor)

9

7

# 6. First impressions!

# make them count (consciously, subconsciously)

harness nervous energy

(adrenalin is normal)
(approach lectern composed)
(activate audio-visuals)
(take a breath and pause)
(acknowledge chair)
(acknowledge audience) (eye-contact)
(say hello and introduce yourself) (stolen thunder)
(introduce your topic) (well-practiced opening)

• set the scene and tone

10

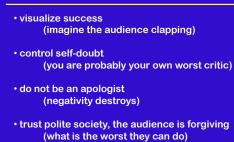
### 7. Have a conversation!

- use conversational rather than formal language (spoken v. written word, dialectic v. didactic)
- keep your sentences short, sharp and shiny
   (avoid verbosity, repetition) (speak slowly, clearly)
- appear spontaneous, even though using triggers
   (but avoid reading from scripts, cue-cards, or slides)
- you are the star, not your slides (dot-points, simple images)
- look and speak to audience, remember to breath (back-row volume, 3-second eye-contact rule)

# 8. Be theatrical!

- you are acting a part (be serious, flamboyant, dramatic, etc)
- adopt performance persona
   (exaggerate language, expressions, actions)
- body language
   (smile, posture, gesticulation, movement)
- physical props (think beyond ppt)
- use humour sparingly
   (your audience often does not get it)

### 9. Be confident!



hammer home message
 (have defined outcomes/expectations)

13



15



10. Prepare, Practice!

(repeat cycle several times)

(familiarity, choreography, etc)

 mimic successful public speakers (research styles, habits, etc)

(practice out loud, in front of a mirror, to a friend)

(enjoy yourself, then so will your audience)

• prepare, practice, refine

live simulations

• have fun!

14

rehearse with props

16

# Media (communication) (information/data, storage/transmission/delivery) ICT defines 5 epochs of civilization: • ideographic writing • alphabetic writing • printing • electronic recording and broadcasting • computer communication

# Types of media

- Print media (newspapers, magazines)
- Broadcast media (radio)
- Broadcast media (television)
- Internet media (on-line)



# **Print media**

### (written words)

### • Publisher

- Scientific (journal, reference textbook...)
- Social (newspaper, magazine...)
- Author
  - Reporter (trained journalist...)
  - Scientist (you)
  - Science writer (amalgam...)

### Style

- Scientific writing (prescriptive..)
- Journalist (deconstructed...)

19



### (spoken words)

- Broadcaster
  - Public radio (commercial, government)
  - Local radio (university, pirate...)

### • Speaker

- Scientist (you)
- Reporter, anchor, news-reader...

### • Style

- Conversational (reactive)
- Declarative (proactive)
- Oratory (changes with time)

21





### Process

- Personal interview
  - studio
  - office
  - street

### Content

- Live broadcast
- Pre-recorded
- un-edited
- edited



## **Print media**

### Process

- Telephone interview
- Internet interview
- Personal interview
- appointment
- spontaneous

### Content

- Notes
- Recordings
- Information sheets
- Accurate data
- Images (and captions)

20



- Ielephone Interview
- Internet interview
- Personal interview
- studio
  - office
  - street

# Internet media

(multimedia)

- Broadcaster
  - Internet servers (global distribution)
  - Intranet servers (restricted distribution)

(proactive)

(opinions)

- Author
  - Scientist (you)
  - Anybody else

Declarative

Idiosyncratic

- Style
- Conversational (social media?)
- 25



27

### **Internet media** Process Post material • text (Wiki, Blog, Twitter...) photos (Facebook...) (YouTube...) • video • Hits, replies, comments Content Reliability/accuracy edited un-edited Relevance interesting/enlightening • boring 26

**First Impressions** What did you think What criteria? of the video? - appearance - vocal language - actions, behaviour - background setting - accompanying images - content, context, etc SITUATION CONTROL Media is IN-YOUR-FACE! Literally! (reporter, microphone, camera)

28

# **Editorial Discretion**

fate literally at mercy of editor → CUTTING-ROOM FLOOR

little comeback, no veto, scripted v. natural → FREEDOM OF THE PRESS (inviolate)

- rely on journalistic professionalism
- $\rightarrow$  OFF THE RECORD (no such beast)
- → ABSENCE OF MALICE (still hurts)
- $\rightarrow$  OUT OF CONTEXT (who knows?)
- → SENSATIONALISM (2 way street)



# image-grabs & voice-overs

<u>Journalists</u> can be directive/prescriptive They are on a tight schedule They decide on grabs

### **Develop rapport**

Where possible, provide extra material

- people (motion, action, crowds, work, play...)
- places (background, foreground, context...)
- things (exemplars, animations, video....)

Value-add

31



32

# Advocacy

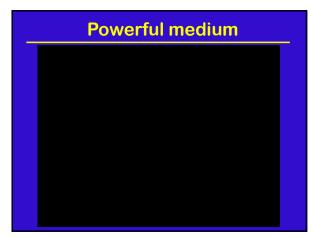
### Model behaviours

- be positive (even when providing critique)
- be dynamic (alive, sincere)
- be personal (maintain eye-contact)
- be theatrical (use voice and body language)
- be engaging.....

Enthusiastic behaviour can be:

- riveting
- infectious
- manic

33



# **Bloopers**

<u>Mistakes</u> will be made (yours and theirs)

- audio (tongue-ties, spoonerisms . . )
- visual (tumbles, slapstick, props . . )
- Murphy's law (children & animals. . )

### What to do?

- soldier-on
- start again
- insist
- go out-of-character, off-camera, yell-cut
- few opportunities to do-over

34

# **Planned Interactions (6-P)**

- PURPOSE (be clear as to reason) • why? why you? what message?
- POSITION (be declarative, do not vacillate)
   pro/con, logic/reason, emotion/passion
- PREPARATION (be ready, practice)
   content, process, personnel, resources (props, aids, briefings, scripts...)
- PRESENTATION (be an advocate)
   professional conduct, model behaviour, enthusiasm
- PERFORMANCE (post-mortem) • reflection, appraisal, feedback, impact
- PROSPECTS (Quo vadit?) • what next? follow-up? referrals