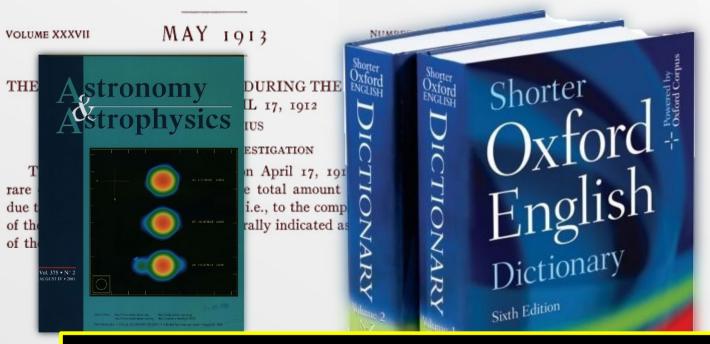
Scientific Writing 6951

ASTROPHYSICAL JOURNAL

Wednesdays 10-12 Room 0.008

AN INTERNATIONAL REVIEW OF SPECTROSCOPY

AND ASTRONOMICAL PHYSICS



http://www.astro.uni-bonn.de/~izzard/writing.html





Previously on Scientific Writing

- Style part 2 of 3
- Punctuation hell:
 - Commas, dashes
- Numbers and counting
- Fluffy verbs
- Connotation
- Misued pronouns



Commas

- http://grammar.ccc.commnet.edu/grammar/commas.htm
- I have spent most of the day putting in a comma and the rest of the day taking it out. (Oscar Wilde)

Give your **supervisor** five Euros for each comma you use in your thesis. Your supervisor will return five Euros for each comma used **correctly**... This teaching technique has been endorsed by **every supervisor** who has tried it!



Today's class

- Nouns from verbs (when to avoid them)
- The Gerund
- Common English Mistakes
- German to English
- Useless and silly phrases
- Acronyms
- Cliché and euphemisms
- Jargon and buzzwords



Nouns from verbs

- "Measurements were carried out on the variation..."
- "The variation was measured"
- "Observations were made of α Cen"
- "α Cen was observed"
- Words ending in -tion, -ance, -sion, -ment, -ness, -cy can often be replaced with an active verb.



The Gerund

-ing verbs that act as a noun e.g.

I like swimming

- Does a noun based on the verb already exist? If so, use it:
 - The constructing was very loud.
 - The construction was very loud.
- Gerund as the subject:
 - Observing galaxies is tiring.
- After prepositions:
 - I am interested in studying astronomy.



The Gerund

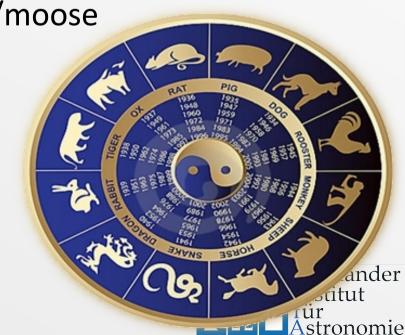
- After some verbs:
 - I will go shopping.
- But others take the infinitive:
 - I hope to shop soon.
- See your favourite dictionary!
- Often confused with present participles
 - I am going to the shops. (verb)
- Present participles can be used as adjectives:
 - The *singing* man





Common Mistakes

- Most problems are because of English's particularly random spelling system!
- Spellchecker will spot most mistakes e.g.
- Loose vs lose, proofs vs proves
- Dwarf/dwarfs, goose/geese but moose/moose
- Datum/data
- Accept/except, insure/ensure
 affect/effect, less/fewer
- Astrology/Astronomy!



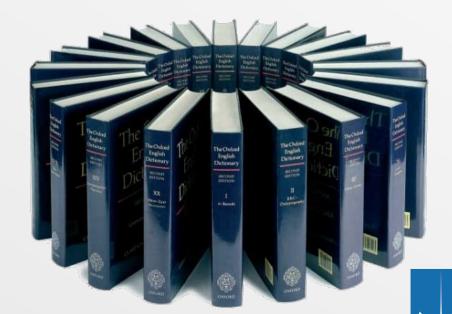
Subtle errors

- My coat is broken.
- Would you mind helping? Yes, of course!
- Who cooked the salad?
- I have no exercise talent.
- How does she look like?
- Bring/take, teach/learn, borrow/lend



Further reading...

- http://public.wsu.edu/~brians/errors/errors.txt
- http://www.learnenglish.de/mistakes/CommonMistakes.htm
- http://www3.telus.net/linguisticsissues/commonerrorsinenglish.html
- http://english-grammar-mistakes.blogspot.com/
- Oxford English Dictionary (OED) "Word of the day"
- http://www.merriam-webster.com/word-of-the-day/
- Google etc.



Common mistakes

White dwarf



White dwarfs

White dwarves



German to English



- English is relatively compact compared to French,
 German, ...
- No credit for fluffy style in academia!
- Read this:

http://files.nothingisreal.com/publications/Tristan_Miller/advice.pdf





Common mistakes

in Abhängigkeit von

X is in dependence of y

- X depends on y?
- *X* is *independent* of *y*?
- OPPOSITE

- Since/for
 - **Since** 1912 ...
 - Since I was five ...
 - For ten years ...
- Circa (c./ca.) rarely used (except dates)

A Senior AlfA Researcher (Repeatedly...)
... and all his students!



Useless and Silly

- The star was very cold.
- It is noteworthy that ...
- Results clearly demonstrate that ...
- First of all, ...
- The area of cosmology is ...
- Fortunately, stars are spherical ...
- The presence of ...
 - (See today's exercises)



Acronyms

- Use sparingly
- Always define, in capitals e.g.
 The United Nations (UN) is ...
- Catchy is good, but don't overdo it!
 The Companion Reinforced Attrition Process (CRAP) is ...
- Take care: "Lensed galaxies in CANDELS"
- http://www.acronymfinder.com



Bad Acronyms 1: acronymfinder.com

Thermally pulsing asymptotic giant branch

Zymoczgan Astivated Moese Serus

Thisded Date enough Unit Plan?

Twice the purise

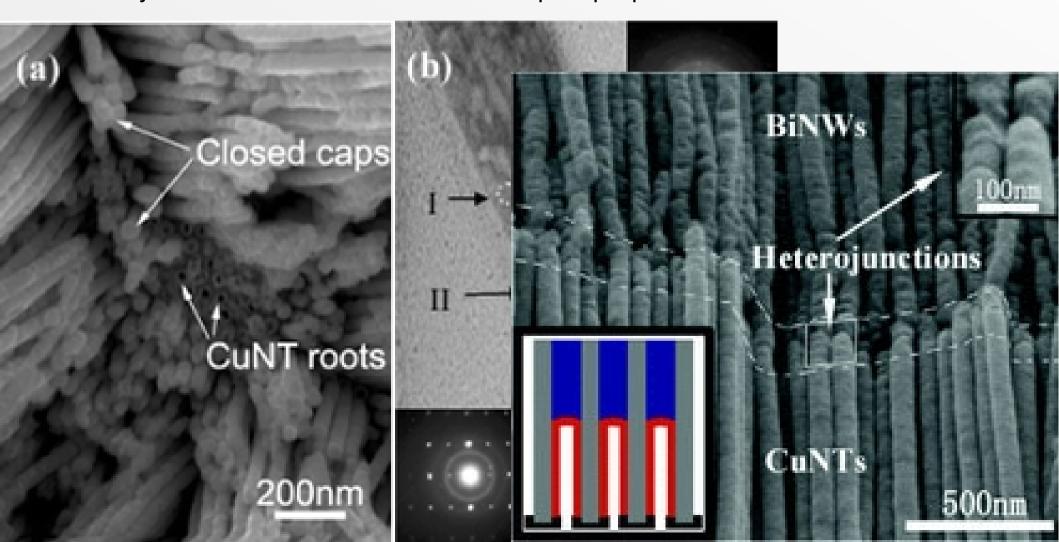
TERRA ANDINA

"The TPAGB star with a ZAMS mass of 2M_☉ experiences TDUP until the 5th TP after which it underwent RLOF, i.e. entered CEE and became a COWD with associated PN, binary CSPN and CBD."

Roch edath Overflithy Conjugate he Retipe Estroge Carlos of Welliam Dwarf Planetary Nebula Confuge Staving Planetary Webliam Centrali Businteis a District C

Bad Acronyms 2: Copper nanotubes

- Chemical Communications, 2007, 1733-1735
- "Electrochemical synthesis of metal and semimetal nanotube-nanowire heterojunctions and their electronic transport properties"



Cliché and Euphemism

To be avoided! Say what you mean directly.

The patient expired.

The patient passed away.

The patient succumbed.

The patient breathed his last.

The patient has gone to his rest.

All these can be replaced by
 "The patient died."





Cliché

The holy grail

"Astronomers Closer to Exoplanet Holy Grail"

Silver bullet.



- Shedding light on galaxy formation.
- Missing link between stars and galaxies.
- Paradigm shift. God particle. Pave the Groundbreaking/breakthrough. Crack the genetic code. Possible cure for... Tipping point. Unlocking the mystery. Revolutionary.

Exercise for the student...



Jargon and Buzzwords

- Some jargon is necessary but do not invent your own language.
- See if you can guess what these mean:

Comitology
Democratic deficit
Eurobarometer
Financial perspective
Semester



http://europa.eu/abc/eurojargon/index_en.htm



For next time

- Write a 300-word short proposal on the astronomical topic of your choice e.g. for
 - Observing time at a telescope
 - Computer time at an HPC facility
 - Resources or grants (money/people/stuff)
 - Something else ... ?
- Use all the skills you have learned in the last ten classes!
- Remember: *structure, concise, precise etc.*
- Next class you will assess each other's proposals! :-)

