

Comments on the *Continuous Assessment Activities* – Group 16

## 1. Report:

- (a) The main aim of *Abstracts* is to briefly describe the work undertaken by the author. In general *Abstracts* are divided in 4 parts: (i) motivation, (ii) main objectives, (iii) summary of the main procedures / techniques / technologies (optional) and (iv) main findings.
- (b) The main *Introduction* section usually has the same (but more in-depth and descriptive) four parts of the *Abstract* and a brief summary of the remaining of the work. In addition, it is always expected a few clear statements -re main background (thus recent innovations related to the main topic), initial literature review and, most of all, technological / scientific gaps in the current understanding. Also, it is expected a summary of the remaining sections at the end of the *Introduction*.
- (c) It's not made clear who the authors of the original paper actually are.
- (d) I would have written down the simplest equations in the paper (1), (2) and (3) rather than diving in at (4), (5) and (6).
- (e) I appreciate the equations here are complicated, but you should at least try to state the physical conservation law that underpins the initial equations, and what all the variables mean.
- (f) The discussion of numerical solutions techniques is good.
- (g) References in the text should all have the date published, i.e. Groves *et al.* (1972) not Groves *at el.* This particular refence doesn't appear in the bibliography and it should.
- (h) The number of references in the bibliography is limited.
- (i) A good attempt at a difficult paper.
- (j) Avoid using *colloquial (informal / personal)* writing.
- (k) Regardless of the chosen citation style (e.g., ACS, AIP, AMS, IEEE, AIAA, etc) any reference **must** contain the following fields:
  - i. For journal papers: Authors, Paper Tittle, Journal Name, Volume, Pages, Year of publication;
  - ii. For books: Authors, Book Tittle, Publisher, Year or Edition;
  - iii. For book chapters: Authors, Chapter Tittle, Book Tittle, Editors, Publisher, Year or Edition;
  - iv. For conference papers: Authors, Paper Tittle, Conference Tittle, Place (Country and/or City) where the conference was held, Year of the conference;
  - v. For reports, private communications and Lecture Notes: Authors, Tittle, Place issued (Country and/or City and Institution where the document was originated), Year;

- vi. For PhD Thesis and MSc Dissertations: Author, Title, Institution (University and Department/School), Year.

Thus, for example:

- [1] P.L. Houtekamer and L. Mitchell, 'Data Assimilation Using an Ensemble Kalman Filter Technique', *Monthly Weather Review*, 126:796-811, 1998.
- [2] K. Pruess, 'Numerical Modelling of Gas Migration at a Proposed Repository for Low and Intermediate Level Nuclear Wastes', Technical Report LBL-25413, Lawrence Berkeley Laboratory, Berkeley (USA), 1990.
- [3] K. Aziz, A. Settari, *Fundamentals of Reservoir Simulation*, Elsevier Applied Science Publishers, New York (USA), 1986.
- [4] R.B. Lowrie, 'Compact higher-Order Numerical Methods for Hyperbolic Conservation Laws', PhD Thesis, Department of Aerospace Engineering and Scientific Computing, University of Michigan (USA), 1996.

## 2. Oral Presentation:

- (a) Do NOT read from notes and/or screen. Look at and interact with your audience.
- (b) No Graphics used to illustrate thermodynamic or numerical concepts to a general audience.
- (c) Do not put something in slides that you are not going to explain or something that you are not sure of.
- (d) Good time keeping.
- (e) Hard paper but creditable effort.
- (f) Be more enthusiastic, try to burst with enthusiasm, if you are not, your audience will not be enthusiastic to listen to you.