

## CGNS Telecon Minutes

Tuesday, 19 May 2015, 10:00am Eastern Time

1. The meeting was called to order at 10:00am Eastern Time. Attendees are listed in Appendix A.
2. March 3, 2015 minutes were approved as published on the website.
3. Steering committee issues:
  - a. NSF Proposal status was discussed. We should probably hear whether it got funded or not by around August 2015.
  - b. Rumsey to contact inactive CGNS steering committee members.
  - c. Ownership of cgns.org will expire on 3/29/2016.
4. Discussion
  - a. HDF parallel status and plans for release of Version 3.3
    - i. CGNS code and all documentation have been moved to GitHub by Breitenfeld. This includes all information formerly housed at SourceForge and at grc.nasa.gov. Rumsey to contact Hauser and point [www.cgns.org](http://www.cgns.org) to [cgns.github.io](http://cgns.github.io) instead of SourceForge page.
    - ii. Rumsey to modify website to remove references to SourceForge that are no longer relevant and mention new GitHub site, and also to modify Sourceforge page information so visitors there know to go to GitHub instead.
    - iii. Breitenfeld to create V3.3 beta release on GitHub, and modify download.html page appropriately.
    - iv. Cmake does not work on Windows. Committee recommended to go ahead with beta release anyway, and we'll add a "known bugs/issues" report.
    - v. Question raised regarding how well GitHub works with bug tracking. Response: other products are better, such as Atlassian. If the NSF grant comes through, this is in the plan to implement for CGNS.
    - vi. Breitenfeld is thinking of eventually adding \_f03 calls, which will give interface checking (current \_f calls do not provide this).
    - vii. Breitenfeld noted that there are issues in HDF5 that cause parallel slowdown for huge numbers of cores (e.g., greater than 16,000), mostly on GPFS systems. They are working on it; should be fixed by next release.
    - viii. Have run CGNS in parallel successfully on 100,000 cores; also on up to 45 billion nodes.
    - ix. Have not tested parallelism across zones yet.
  - b. Failure of cgnstools to build with Tcl/Tk 8.6 was noted by Guzik.
    - i. However, still works with 8.5.
    - ii. Baker to look at issue of cgnstools failing to build with Tcl/Tk 8.6.
  - c. Decision made to drop maintenance of SIDS LaTeX files. This means that from now on, changes to SIDS (as well as other documentation) will be made in only one place: the html files. This will make consistency and keeping track of changes to documentation much easier.
    - i. As part of this, Breitenfeld to move CGNS\_docs\_textfiles to CGNS\_archives.
5. Review action items
  - a. Breitenfeld to coordinate with Rumsey to release V3.3 beta, including adding some new documentation. Wang and Imlay agreed to collaborate to test quartic elements (CPEX 38).
    - i. V3.3 beta still needs to be released.

- ii. Testing of quartic elements was done by Wang.
  - b. Breitenfeld to take lead on porting relevant repositories to GitHub.
    - i. Done.
  - c. Rumsey to look into moving main website and all documentation to another site, like Google.
    - i. This task no longer necessary, as all docs have been moved to GitHub.
  - d. Wang will look into renewing cgns.org domain name.
    - i. Action carries (Wang and Hauser to decide between them).
  - e. Pointot to implement CPEX 39 into MLL and revise the SIDS appropriately.
    - i. Implemented into MLL branch, but not committed yet. Needs more Fortran testing. Committee approved the CPEX. SIDS-to-MLL filemap does not require any changes. Action to implement carries.
  - f. Guzik to revise write-up of CPEX 40 and submit to Rumsey. Rumsey to send revision for final ballot.
    - i. Done. Committee approved the CPEX. SIDS-to-MLL filemap does not require any changes. Guzik has tried new routines with parallel. Asked about use of strides (which HDF can handle); committee felt it would be useful to include them. Action for Guzik to implement.
- 6. New business
  - a. None.
- 7. Ongoing Action Items
  - a. Rumsey to contact inactive CGNS steering committee members.
  - b. Rumsey to contact Hauser and point [www.cgns.org](http://www.cgns.org) to [cgns.github.io](http://cgns.github.io) instead of SourceForge page.
  - c. Rumsey to modify website to remove references to SourceForge that are no longer relevant and mention new GitHub site, and also to modify Sourceforge page information so visitors there know to go to GitHub instead.
  - d. Breitenfeld to create V3.3 beta release on GitHub, and modify download.html page appropriately.
  - e. Baker to look at issue of cgnstools failing to build with Tcl/Tk 8.6.
  - f. Breitenfeld to move CGNS docs texfiles to CGNS archives.
  - g. Wang and Hauser to work together to renew cgns.org domain name.
  - h. Pointot to implement CPEX 39 into MLL and revise the SIDS HTML docs appropriately.
  - i. Guzik to implement CPEX 40 into MLL and revise the SIDS HTML docs appropriately.
- 8. The next meeting was tentatively scheduled for Tuesday 25 August 2015 at 10am Eastern.
- 9. Adjourn

#### Appendix A – Attendees

Pat Baker	Pointwise
Scot Breitenfeld	HDF Group
Bob Bush	P&W
Stephen Guzik	Colorado State U
Dmitri Kamenetskiy	Boeing
Mohamed Kaveh	GE
Marc Pointot	ONERA
Chris Rumsey	NASA
ZJ Wang	Kansas U
Brad Whitlock	Intelligent Light