

AFGROW Workshop 2019

AFGROW Future Development

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Workshop 2019 to do list

- *K-Solutions for corner/through crack combinations (10+)
- *Add notifications from plugin to notification view in GUI (1)
- ~~*Investigate growth rate interpolation along crack front (start by predicting benchmark data) – 100% – **Upcoming Release 5.3.5.24**~~
- *Continue to pursue MSD (5)
- Bearing solution for corner crack(s) at a countersunk hole (3)
- ~~AFGROW output post processing (8) - Poor man solution – 100%~~
- Make changes to allow the use of spectra with three load channels (5)
- Add a stiffened panel solution? (4)
- ~~Develop spectra based on exceedance data (be sure to note limitations) (9) - 90% - **Upcoming Release 5.4**~~
- Investigate/Fix small crack combination ($a/t < 0.1$) for advanced corner cracks at hole (also Kevin's bug fix) (6)
- Investigate a 3-D integration method for beta correction (7)
- Include a log file with the Spectrum Manager (list of what was done) it would need to be dated and maintained each time the spectrum is opened. Maybe a separate log file? Like a log used to track changes for software development. (3)
- Integrate Cycle Counter into Spectrum Manager (10)
- Ability to read uncounted data in the Spectrum Manager (10)
- ~~Ability to output after each beta calculation is not saved (1)~~
- Ability to use beta correction with a weight function solution (5)
- ~~Beta correction needs to be reset after analysis becomes a through crack (1)~~

Additional Requests

Lower Priority

- Tim Alred asked about different retardation parameters for the different growth directions
- Scott Fawaz would like the font size for the R plot axes to be changed for reporting purposes
- HDF5 binary format for AFGROW database
- Add a check box to put output in the same file as input. Also, allow the same file names for each type.
- Look into notifications for exceeding limits for a corner crack at a C/S knuckle