LexTech

AFGROW.NET

AFGROW Workshop 2026

AFGROW Future Development

James Harter, Alex Litvinov

LexTech, Inc .

LexTech

AFGROW.NET

Agenda

1. Proposed and prioritized future features list
2. Recently requested features
3. What new features would you like to be added to AFGROW?

LexTech

AFGROW.NET

Post 5.6 development

Scale: 10 most important

- Countersunk hole solution (10)
- *Oblique/Part Through Corner Cracks at Hole (10) – Could be included in release 5.6*
- Continue short cracks and plastic zone investigation (9)
- New hole offset correction that should be used with the Harter Width correction (8.5)
- *Update advanced double corner crack solution with the latest FE data (7) – Could be included in release 5.6*
- Add option to have multiple analyses open in a single AFGROW instance (7)
- *Made it possible to instantiate two AFGROW instances using COM (6) – Could be included in release 5.6*
- Visualize marker-bands in AFGROW output/plotting, possible develop an option to trigger output using special tag(6)
- Add table as another output option next to the Crack Length vs Life tab and the Status tab (6)
- Create sequence by providing total time of the spectra, time per sub-spectra and % of usage per sub-spectra (6)
- *Make it possible to read the user defined beta file *.bet using COM (6) – Could be included in release 5.6*
- Access retardation metadata via COM Interface (5)

LexTech

Recently Requested Features

AFGROW.NET

- Fix/Add different AFGROW scripting language for Spectrum and Beta filtering features (Alex)
- AFGROW API – now GUI, multiple OS, supports multithreading (Alex)
- Convert the web-based post-processing application into a standalone desktop application and distribute it with AFGROW (Government and government-contractor users)
- Add Residual Strength plot
- Fix the *plot in excel option* for advanced models (Jake and many other people)
- Fix confusion with opening tabular lookup material file from the material dialog (Everybody)
- Add more units per spectrum pass in addition to hours (flights, months, years) (Markus, Lyndon)
- Create an option to set preference for running 1 cycle and stop prediction (Nico)
- *Add API 579 models for spheres*
- *Add FAD diagram plot*

LexTech

AFGROW.NET

What new features would you like to be added to AFGROW?