VERSION 6.4.2 RELEASE NOTES

CHEMCAD New Features and Enhancements

- Removed the heat exchanger heat duty calculated value from rigorous simulation mode (1997)
- Changed the Henry's constant plot to allow the use of pure components (4180)
- Regressed Henry's constants for air (4181)
- Improved thermodynamic models to aid column convergence (4073)
- Added Radius of Gyration to the CHEMCAD physical properties database (4056)

CHEMCAD Maintenance

- **Corrected the vapor pressure for Triolein (ID: 2251) in the CHEMCAD component database (3797)**
- Corrected an issue where batch operation step data was exported using incorrect units (690)
- Corrected an issue where heat of combustion values were incorrect in reports (1629)
- Corrected an issue where multiple Edit Streams dialogs could be opened at once, causing CHEMCAD to close unexpectedly (2572)
- Renamed Specific Heat field in the Engineering Units Converter tool (F6) dialog to Heat Capacity (3579)
- Corrected issues with the META UnitOp (3783)
  Corrected an issue where a long stream name could cause CHEMCAD to close unexpectedly (3799)
- Corrected an issue where a Gibbs reactor did not converge when only three components were available for a reaction (4065)
- Corrected an issue where flash algorithm could fail to converge for high-flow situations (4079)
- Corrected an issue where a compressor, expander, or pump UnitOp template could add a faulty row of numbers to a performance curve (4110)
- Corrected an issue where the CHEMCAD Explorer showed UnitOp ID -1 for a compressor, expander, or pump used with a performance curve template (4112)

- Corrected an issue where a heat exchanger could be run in utility mode with no initial estimation for utility streams (4154)
- Corrected an issue where the TPXY plot did not accept a negative relative temperature (4157)
- Corrected an issue where a dynamic simulation could encounter problems with LMTD calculation in a dynamic vessel (4160)
- Corrected an issue where a batch reactor could fail to report a mass balance error (4187)
- Corrected an issue with the enthalpy plot that occurred for a batch reactor with an internal coil (4188)
- Corrected an issue where a controller running with a batch reactor caused CHEMCAD to close unexpectedly (4293)

CC-THERM

- Corrected an error that caused the fouling rate for one side of a heat exchanger to zero out the fouling rate for the other side (4240)
- Corrected an issue where the fouling rating for a double-pipe heat exchanger could give very large fouling factor values (4259)
- Corrected a rare file issue that could cause a CC-THERM simulation to close CHEMCAD unexpectedly (4307)