New Features in AFT Fathom 9

- **General interface**
  - Improved tab interface and enhanced Quick Access Panel functionality
  - Improved search includes pipe and junction notes, names and numbers
  - Output reports in German and Chinese languages
  - Files are automatically locked when opened to prevent multiple users from accidently opening the same file
  - Global edit select all items within a section

- **Graph results**
  - Multiple Graphs Sets can be added to Graph Groups for easy generation and display
  - Multiple graph tabs on main Graph tab
  - Multiple graphs tiled on same Graph Group tab
  - Easy formatting of titles, axis labels, and plot lines
  - Plot series lines can be turned on/off for quick inspection
  - Graph controls now located on the Quick Access Panel for easy graph definition and changes
  - Junction location shown on profile plots
  - Annotations can be placed on graphs

- **Scenario Manager**
  - Scenario manager shows which scenarios have output
  - Ability to create child scenarios without results saving duplication and load time

- **Workspace**
  - New paste preview mode allows the pipes and junctions to be placed desired and will indicate interference with existing objects on the Workspace
  - GIS shape files can be imported to create a model
  - Text alignment options in annotations
  - Annotations can be layered on the Workspace

- **Output**
  - Results Diagrams which graphically show data for pipe heat transfer, pumps and heat exchangers
  - Default colors for multi-scenario output
  - Support for NFPA output reporting

- **Visual Report**
  - Automatic Color Map generation

- **Pipes**
  - Design Alerts are specified and named globally and applied to pipes
  - New Design Alerts available

- **Junctions**
  - Improved Relief Valve specification
  - Improved clarity for data entry in the Reservoir/Tank Property window
  - Submerged pumps
  - When the speed is set for a pump, both the original and modified pump curves are shown on the Pump Property window
  - New Weir junction
  - Design Alerts can be applied to junctions

- **Solver**
  - 3-K method for laminar flow through fittings
  - Equivalent Length option available for pipes, valves and bends

- **Modules**
  - **GSC**
    - Pipes now have GSC variables available such as roughness, design factor, insulation thickness, Reynolds number
    - New and improved searching method for multi-variable goal seeking – useful for model calibration
    - Variables and goals can be reordered
    - New goals and variables added