



SIEMENS

**CAPE-OPEN
ANNUAL MEETING 2020**



PRESENTERS



SIEMENS

Name:
Anusha Gurrapu

Company:
Siemens Digital Industries Software

Department:
Simcenter

Position:
Team Lead | Software Engineer



Name:
Bjoern Altendorf

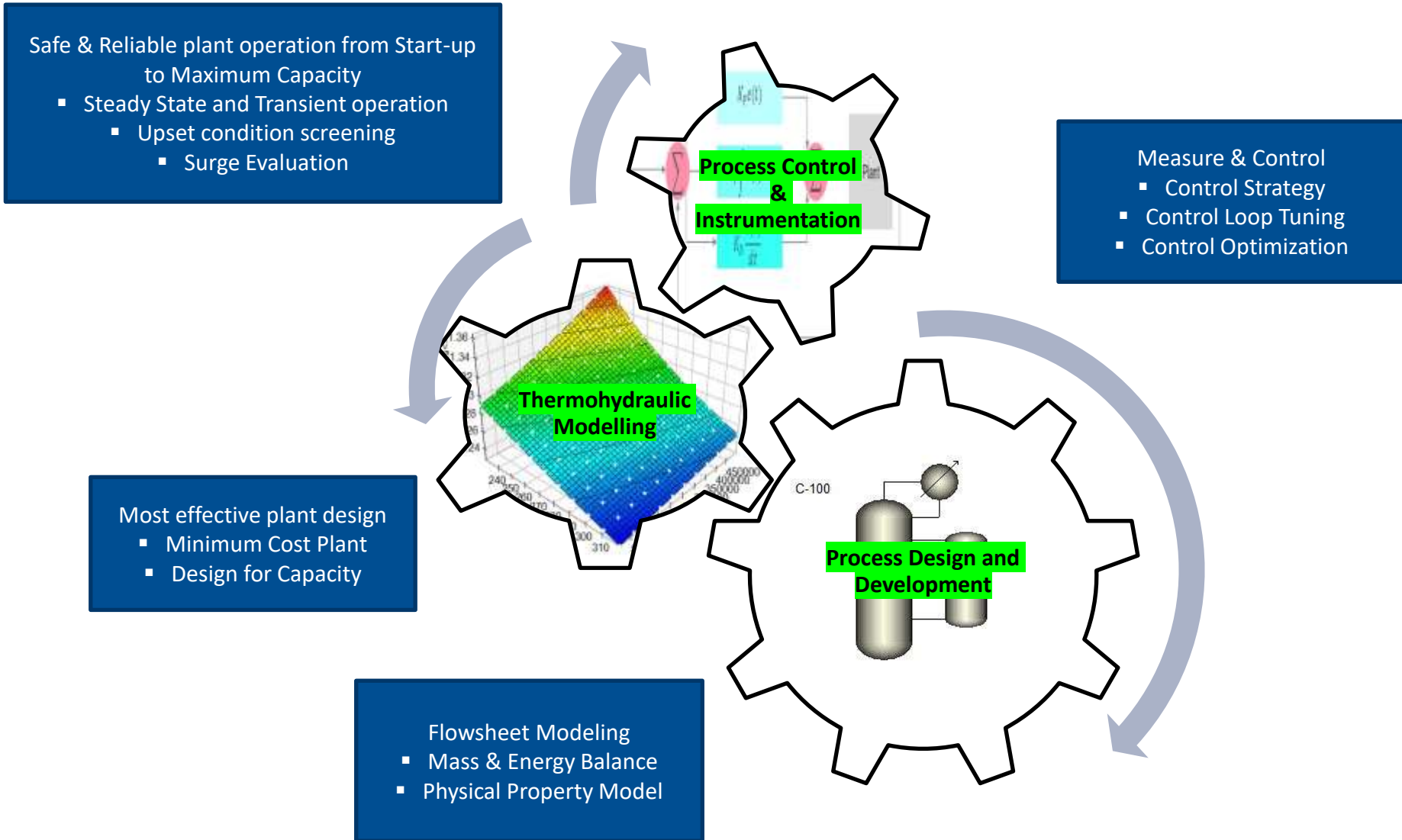
Company:
Dow Olefineverbund GmbH, Schkopau, Germany

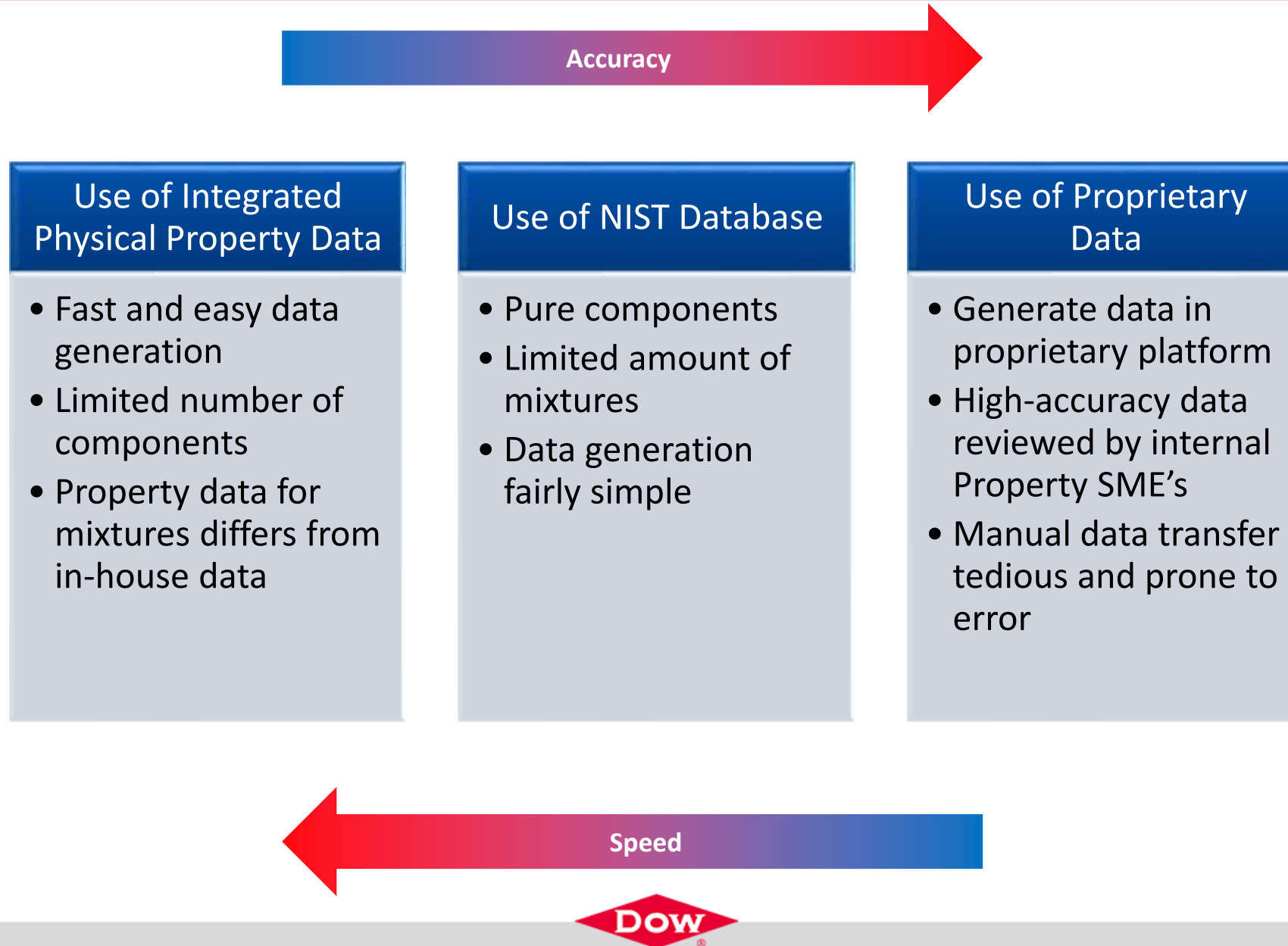
Department:
TES Process Engineering Technology Group

Position:
**Fluid Mechanics & Mixing Technology Expert |
Reaction Engineering Subgroup Lead**



IDEATION: UNIFIED PROPERTY DATA FROM FLOWSHEET TO EQUIPMENT DESIGN





SIMCENTER FLOMASTER FOR ACCURATE PIPING SYSTEM ENGINEERING



- Comprehensive solution for thermo-fluid systems of any size and complexity

Build
thermo-fluid
system
digital twin



Understand
system
behaviour
anytime,
anywhere

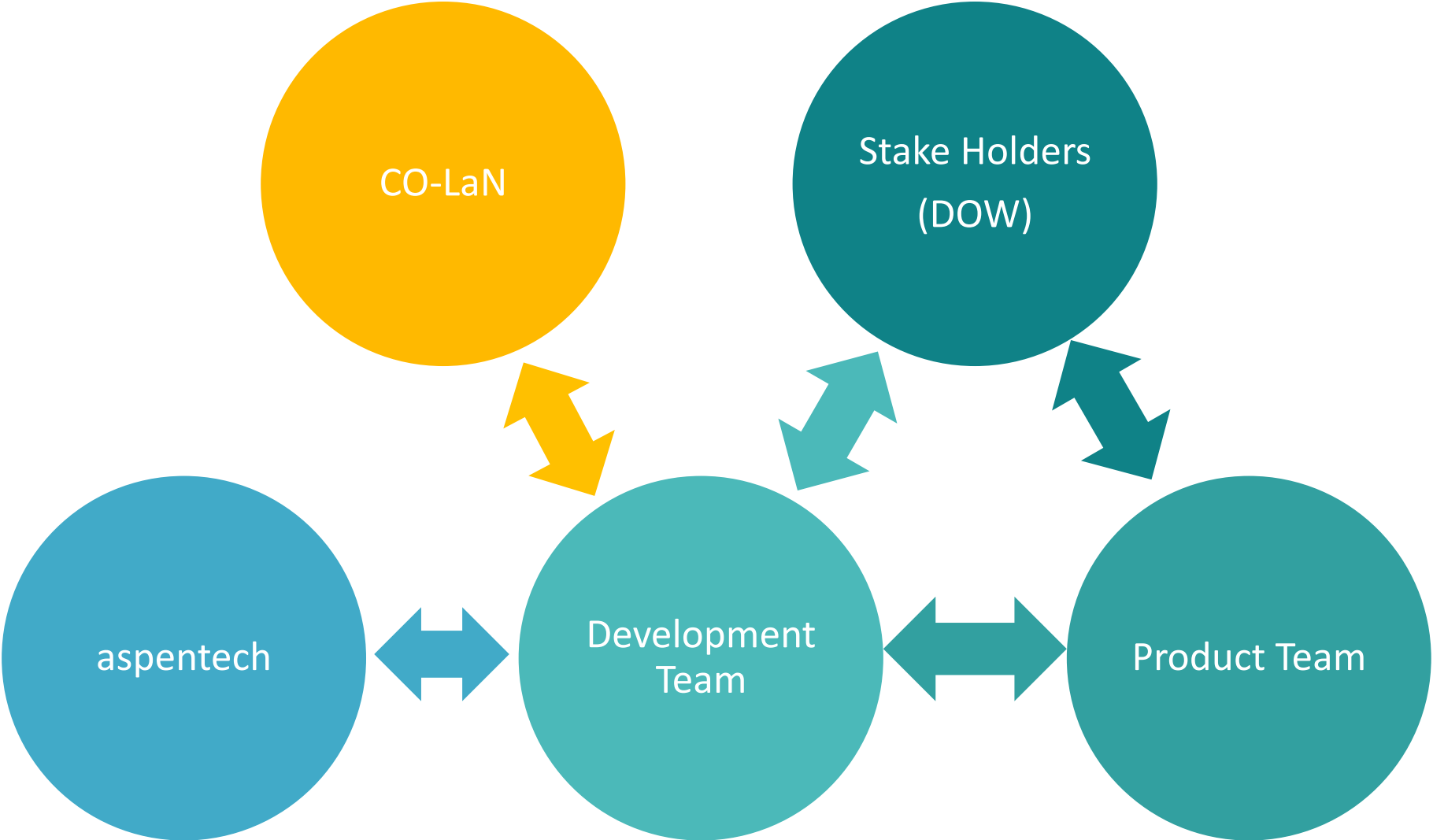


Reduce
risk, costs and
the development
cycle

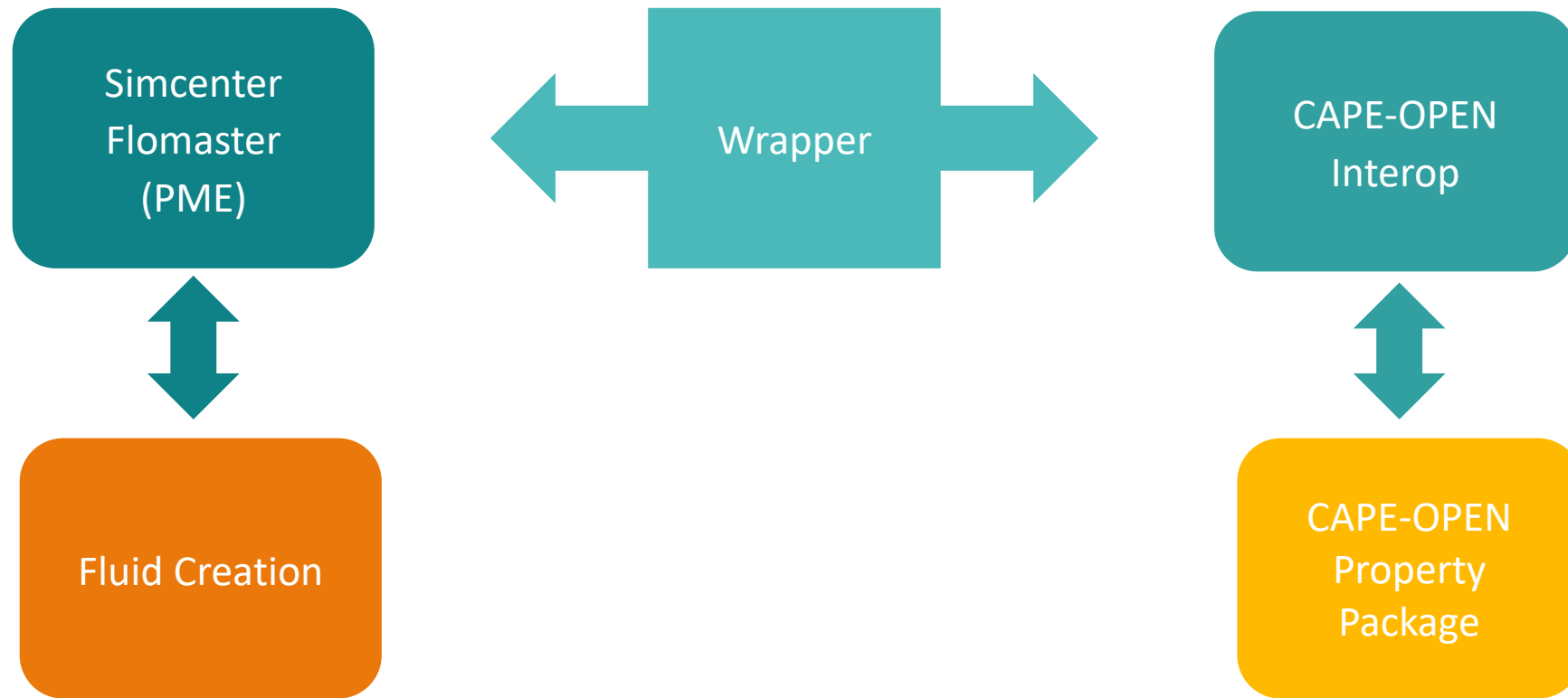


Design Better Piping Systems, Faster!

HOW WE WORKED WITH DOW



HIGH LEVEL ARCHITECTURE



DEVELOPMENT TIMELINE



January 2020



October 2020



DEMO - SIMCENTER FLOMASTER FLUID CREATION USING CAPE-OPEN

The screenshot displays the Simcenter Flomaster software interface. On the left is a navigation sidebar with sections: Systems (System, Sub-System, Component, Material, Performance Data), Tools (Discover, Sample Systems), and Configuration (Logon, Database, License). The main workspace shows a 'CAPE-OPEN Fluid Creation' window. The 'CAPE-OPEN Fluid Selection' section includes: Fluid Name (Compound A), Fluid Type (Incompressible), Material Path (Materials\User-defined), Available Property Packages (TEA (CAPE-OPEN 1.1)), and Available Fluids (C1_C2). The 'Fraction Type' is set to 'Mass', and a table shows Methane and Ethane both with a fraction of 0. The right side of the window has input fields for Pressure Limits (Minimum, Maximum) and Temperature Limits (Minimum, Maximum), along with 'Fluid Property Tolerances' and 'Fluid Info' expandable sections. A 'GENERATE...' button is present. At the bottom of the window is a yellow 'CREATE' button. The bottom of the interface features a footer with four tiles: 'InfoHub™ Support for Simcenter Flomaster', 'On Demand Training On Demand Training To Get Started with Simcenter Flomaster', 'Confidence in Fluid System Design Don Miller on the Creation of 'Internal Flow Systems' and Simcenter Flomaster', and 'Simcenter Flomaster Blogs Blog Posts Highlighting New Features and Innovate Models'.



Seek

Together™