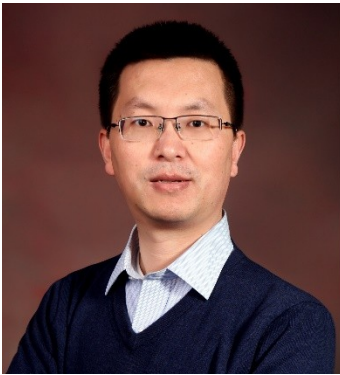


# EDFM for Complex Fracture Modeling and Geothermal Application

Dr. Wei Yu, Sim Tech LLC.

Thursday, August 24, 2023, 9 a.m. Central Time



Dr. Wei Yu, Chief Technology Officer, Sim Tech LLC., will speak on Thursday, August 24, 2023, at 9:00 a.m. Central Time.

The topic is “EDFM for Complex Fracture Modeling and Geothermal Application.”

## Abstract

Recent fracture diagnostics’ results and fracture propagation models in EGS motivate efficient and accurate handling of natural and hydraulic fractures in reservoir simulation studies. In this talk, we will present a powerful thermal embedded discrete fracture model (EDFM) and EDFM artificial intelligence (EDFM-AI) technology. EDFM has proven to be the best fracture modeling technology to simulate any type of fracture geometry and orientation in discrete fracture networks. Our EDFM technology can evaluate and optimize fracture design with more-realistic natural fractures. Fracture connectivity between injectors and producers is crucial for fluid circulation in low permeability EGS. Producing temperature profile is sensitive to the fracture density, geometry, and property.

## Biography

Wei Yu is CTO for Sim Tech LLC. His research interests include EDFM (Embedded Discrete Fracture Model) technology for modeling complex fractures and EDFM-AI for automatic history matching. Yu authored or coauthored more than 200 technical papers and three books. He holds a PhD degree in petroleum engineering from The University of Texas at Austin.