The 2019 American Society of Thermal and Fluids Engineers (ASTFE) Conference will be held April 14–17, 2019 in the Westin Hotel, Las Vegas, NV, USA. ASTFE is the premier international society by and for professionals within the thermal and fluids science and engineering community. The 2019 ASTFE conference provides an international forum for the dissemination of the latest research and knowledge in the thermal and fluid sciences.

OUTSTANDING PLENARY SPEAKERS

Susan N. Coppersmith
Robert E. Fassnacht and Vilas Professor of Physics, University of Wisconsin–Madison. Susan Coppersmith, a theoretical physicist at the University of Wisconsin–Madison, has applied her talents across this span, from modeling the assembly of mollusk shells to programming quantum computers. Coppersmith was elected to the National Academy of Sciences in 2000, and in her inaugural Article she describes and models the surprising intersecting lines and folds that appear in compressed monolayers of gold nanoparticle.

TD Barnes
Thornton D. “TD” Barnes, author, and entrepreneur, grew up on a ranch at Dalhart, Texas. Barnes’s career includes serving as a field engineer at the NASA High Range in Nevada for the X-15, XB-70, lifting bodies and lunar landing vehicles, working on the NERVA project at Jackass Flats, Nevada; and serving in Special Projects at Area 51. Barnes later formed a family oil and gas exploration company, drilling, and producing oil and gas and mining uranium and gold. Barnes currently serves as the CEO of Startel, Inc., a landowner, and is actively mining landscape rock and gold in Nevada.

Essam E. Khalil
Professor of Mechanical Engineering, Faculty of Engineering, Cairo University, Chairman of National HVAC Code Committee, Ministry of Housing & Development, Coordinator For The National Energy Efficiency Code Committee For HVAC, Chairman National Ventilation Code Committee, Chairman Arab HVAC Code Committee, Consultant ASHRAE Members Council, AIA Deputy Director International, USA, ASHRAE Director-At-Large, Energy and HVAC Expert at AMI, President “Consulting Engineering Bureau” CEB, Cairo.

Christian Sattler
Head of Department Solar Chemical Engineering, German Aerospace Center (DLR), Professor for Solar Fuel Production at Technical University of Dresden, Germany. Christian Sattler works on technologies for using concentrated and non-concentrated solar radiation for thermochemical and photochemical processes. He is Vice-President of the Hydrogen Europe Research Association and member at large of the Energy Conversion and Storage Segment of the American Society of Mechanical Engineers (ASME).