



4th International Symposium on
Energy **C**hallenges & **M**echanics
- working on small scales

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Invited Speaker of Session 15

COMPUTATIONAL RESEARCH FOR ENERGY APPLICATIONS



Ahmed Alhusseney was awarded his BSc and MSc in Air conditioning and Refrigeration Engineering from the University of Technology, Baghdad, Iraq in 2001 and 2005, respectively. Afterwards, he worked as a member of academic staff at the College of Engineering, University of Kufa, Iraq. Currently, Ahmed is doing a PhD research entitled "Heat and Fluid Flow in Rotating Porous Media" under the supervision of Prof Turan at the University of Manchester, UK. He had investigated how to enhance the performance of cooling passages within rotating electrical windings by filling them fully or partially with high porosity metal foams. Recently, he has started to analyse heat and fluid flow across rotary

thermal regenerators by means of using porous media concept, where this approach has been found to be sufficient to accurately predict the thermal and hydrodynamic patterns through such these types of heat exchangers.

