

第229回講演会  
【開催：2024年5月10日（金）】

主催 中国地区化学工学懇話会

下記の要領で講演会を開催します。多数の方のご参加を頂きますようお願い致します。

記

日時：2024年5月10日（金）14:30～15:00

場所：広島大学工学部A4棟112室

交通：山陽本線西条駅下車，バス15分，大学会館前下車

山陽新幹線東広島駅下車，タクシー10分

講演内容：

Particle-laden flows are ubiquitous in nature and industries. Often in industrial applications, chemical reactions are involved. Computer simulation plays an integral role in research and industrial development to obtain a detailed insight into such complex multiphase physics. My research has been dedicated in developing numerical model that enable efficient simulations of reactive particle-laden flows at large scales (even at industrial scale). This framework has been established on CFD-DEM approach, extended with reaction module, cohesive model, as well as model reduction such as coarse-graining method and the Flamelet Generated Manifold (FGM) method. I will address our research advance on this model development and showcase two examples of application in 1) modelling of raceway formation in a real blast furnace and 2) modelling of direct reduction of iron oxide fines in fluidized beds using hydrogen.

講師および講演題目：

Prof. Yali Tang (Eindhoven University of Technology)

Model development for large-scale reactive multiphase flows: coarse-grained CFD-DEM approach

参加費：無料

申込先：FAX または電子メールでお申し込み下さい。

中国地区化学工学懇話会

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