# 关于召开“相场法及集成计算材料工程”论坛的通知

**2019 年 8 月 2 日~4 日 山西 太原**

## 一、会议简介

21 世纪以来，集成计算材料工程备受关注。其中相场方法及相关技术在组织/过程模拟和性能预测方面迅速发展，密度泛函理论计算等在电子原子尺度上揭示材料各类结构、性质及力学性能，……，这些多层次计算模拟方法在构建“集成计算材料工程”研究平台过程中占据关键位置，为形成完整研究链、实现从“实验寻优”向“系统寻优”转变起到重要作用。

相场及相关组织模拟论坛已于 2017 年（西北工业大学）和 2018 年（东南大学）连续举办了两届，深受领域内人士关注。为继续推动相关技术在材料与制造领域的应用，同时为国内外研究者提供交流与合作平台，中北大学拟主办第三届“相场法及集成计算材料工程”论坛，将邀请国际国内著名学者到会做主题报告，诚邀全国有兴趣的专家、研究生、企业人士等共同探讨相场法及相关技术的最新进展与未来发展。最后，古老美丽的龙城太原和汾河畔的中北大学期待您拨冗光临。

## 二、会议主题

1、 相场方法理论及应用

2、 密度泛函理论计算

3、 相关微观/宏观组织模拟技术

4、 相图/热力学/动力学计算

5、 集成计算材料工程

## 三、组织单位

**主办单位:**中北大学

**承办单位：**中北大学材料科学与工程学院、山西省有色金属液态成型工程技术研究中心

**协办单位：**西北工业大学、东南大学、北京理工大学、清华大学

## 四、会议安排

1、时间：2019 年 8 月 2 日~4 日（8 月 2 日报到）

2、地点：山西黄河京都大酒店（山西省太原市小店区平阳路 19 号）

3、会务费：1200 元/人（含餐费及资料费，报到时缴费即可），住宿及交通费自理，会务组可协助提前预订房间。

4、会议联系人：

鲁若鹏（中　北　大　学）：13613463280，luroper@163.com

赵宇宏（中　北　大　学）：15035172958，zhaoyuhong@nuc.edu.cn

邢　辉（西北工业大学）：15929729252，huixing@nwpu.edu.cn

孙东科（东　南　大　学）：18651683583，dksun@seu.edu.cn

黄厚兵（北京理工大学）：18601273805，hbhuang@bit.edu.cn

杨　聪（清　华　大　学）：13001276322，yangc15@mails.tsinghua.edu.cn

# Conference on Phase Field Method and Integrated Computing Materials Engineering (PFM-ICME 2019)

**August 2-4, 2019, Taiyuan, Shanxi, China**

## ABOUT PFM-ICME CONFERENCES

Since the 21st century, integrated computing materials engineering has attracted tremendous attention. Phase field methods and related technologies have developed rapidly in the aspects of micro-macrostructure, evolution simulation, and performance prediction. Density functional theory calculation reveals various structures and mechanical properties of materials at the electronic or atomic scale， ..... These multi-level computational simulation methods occupy a key position in the construction of "integrated computational materials engineering" research platform, and play an important role in forming a complete research chain and realizing the transformation from "experimental optimization" to "system optimization".

This conference is the 3rd PFM-ICME 2019 devoted to advanced materials and processing. PFM-ICME conference has been successfully held for two consecutive sessions in Northwestern Polytechnic University (2017) and Southeast University (2018) and received a highly positive response. In order to provide an attractive forum for the exchange of scientific and technological information, the North University of China intends to host “3rd PFM-ICME 2019”. We sincerely invite every expert, postgraduates, and entrepreneur to participate in this coming major conference and to join us for exciting discussions.

Finally, located in the ancient and beautiful city of Taiyuan, the North University of China is looking forward to your visiting.

## TOPICS

- Theory and application of phase field method

- First-principles calculation
- Microscopic/macroscopic simulation technology
- Phase diagram/thermodynamic/kinetic calculation
- Integrated computing materials engineering

## Conference Organization Unit

**Host:** North University of China

**Organizer:** College of Materials Science and Engineering, North University of China;Shanxi Engineering Research Center of Liquid Nonferrous Metals Forming

**Co-organizer:** Northwestern Polytechnic University; Southeast University; Beijing Institute of Technology; Tsinghua University

## Conference Outline

**Date:** August 2-4, 2019

**Conference Venue:** Shanxi Yellow River Kyoto hotel (No. 19 Pingyang Road, Xiaodian District, Taiyuan City, Shanxi Province).

**Fees:** CNY 1200 / person

## Contact (about the conference)

**Lu Ruo-peng** (North University of China): 13613463280, lrpzbdx@nuc.edu.cn

**Zhao Yu-hong** (North University of China): 15035172958, zhaoyuhong@nuc.edu.cn

**Xing Hui** (Northwestern Polytechnic University):15929729252, huixing@nwpu.edu.cn

**Sun Dong-ke** (Southeast University): 18651683583, dksun@seu.edu.cn

**Huang Hou-bing**(Beijing Institute of Technology):18601273805, hbhuang@bit.edu.cn

**Yang Cong** (Tsinghua University):13001276322, yangc15@mails.tsinghua.edu.cn