

PCoMS合宿セミナー2019 PCoMS 3-day seminar2019

—材料開発現場の課題を考えよう(鉄鋼材料のミクロ組織の制御と計算物質科学)—
"Control of microstructure in steel" and "computational materials science"

日時：2019年8月23日（金）～2019年8月25日（日） Aug. 23 (Fri) ~ Aug. 25 (Sun), 2019

会場：ホテル 果実の山 あづま屋 (<http://azuma-ya.co.jp/>) (山形かみのやま温泉)
Venue: Hotel Azuma-ya (<http://azuma-ya.co.jp/azumaya-eng/>) (Kaminoyama City, Yamagata)

- 講師：**
- ・ **基調講演：**澤田 英明 (日本製鉄 (株) 先端技術研究所 主幹研究員)
 - ・ **コンピューター実習付き講演：**山中晃徳 (東京農工大学 准教授)
 - ・ **講演：**尾方 成信 (大阪大学 教授)
 - ・ **講演：**古原 忠 (東北大学 金属材料研究所 教授)
 - ・ **グループ課題実習、コミュニケーション実習：**
寺田 弥生 (東北大学 金属材料研究所 PCoMS 特任准教授)

部分参加OK

講演は全て英語で行います。題目などは以下のContentsをご確認ください。
グループ課題実習は、講師による解説は英語、参加者の討論はグループごとに英語又は日本語で行います。

Contents : The main contents of this seminar are (1) lectures and practical computational training given by experts in both academia and industry, and (2) group discussions regarding research proposals related to both seminar topics and group member research topics.

- ・ **"Computational Material Science for Steel"(plenary lecture)**
Hideaki Sawada (Senior Researcher, Nippon Steel Corporation)
- ・ **"Fundamental Theory and Programming for Phase-field Modelling"(lecture & practical training)**
Akinori Yamanaka (Associate Professor, Tokyo University of Agriculture and Technology)
- ・ **"Atomistic Modeling of Strength and Deformation of BCC Iron"(lecture)**
Shigenobu Ogata (Professor, Osaka University)
- ・ **"Key Issues for Understanding Atomistic Mechanisms of Phase Transformation and Precipitation in Advanced High Strength Steels"(lecture)**
Tadashi Furuhashi (Professor, IMR, Tohoku University)
- ・ **"Group discussion" and "communication & presentation skill-up training"**
Yayoi Terada (Specially appointed associate professor, PCoMS, IMR, Tohoku University)

参加費 (registration fee including accommodation and meals during a 3days) : **16,000 yen**

東北大 DC、PD、任期付（特任）助教の方への旅費＆参加費支援あり＊詳細はWeb
Financial support is available for doctoral course students, postdocs, and fixed-term assistant professors of Tohoku Univ. Please see the details on the web page.

申込と詳細：PCoMS 3-day seminar 2019 web page

Registration & details <http://pcoms.imr.tohoku.ac.jp/R01/PCoMS-3days-seminar-2019/>

申込締切 (Registration deadline)：8月8日 (Aug. 8 [Thu]) 15:00

問い合わせ先 (Contact Address) : 東北大学 金属材料研究所 PCoMS事務局
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PCoMS合宿セミナー2019 PCoMS 3-day seminar2019 Program

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Aug. 23(Fri)

11:30	Come to IMR, Katahira campus, Tohoku Univ. (option) / 東北大学金研集合(送迎バス乗車希望の場合)
13:00 - 13:05	Opening Address
13:05 - 14:35	Plenary Lecture 【categories-A&B&C】 "Computational Material Science for Steel" Hideaki Sawada (Senior Researcher, Nippon Steel Corporation)
14:35 - 14:50	break
14:50 - 16:20	Lecture & Practical training 【1】 【categories-A&B】 "Fundamental Theory and Programming for Phase-field Modelling" Akinori Yamanaka (Associate Professor, The Tokyo University of Agriculture and Technology)
16:20 - 16:30	break
16:30-18:00	Lecture & Practical training 【2】 【categories-A&B】 "Fundamental Theory and Programming for Phase-field Modelling" Akinori Yamanaka (Associate Professor, The Tokyo University of Agriculture and Technology)
18:00 - 18:05	break
18:05 - 19:00	Communication & presentation skill up training, Introduction of group discussion 【categories-A&C】 Yayoi Terada (Specially Appointed Associate Professor, PCoMS, IMR, Tohoku University)
19:00 - 19:15	break
19:15 - 20:45	dinner
20:45 -	free group discussion

Aug. 24(Sat)

-8:50	breakfast
9:00-10:20	Group discussion 【categories-A&C】
10:20 - 10:30	break
10:30 - 12:00	Lecture 【categories-A&B】 "Atomistic Modeling of Strength and Deformation of BCC Iron" Shigenobu Ogata (Professor, Osaka University)
12:00 - 13:10	lunch break
13:10 - 14:40	Communication & presentation skill up training 【categories-A&C】 Yayoi Terada (Specially Appointed Associate Professor, PCoMS, IMR, Tohoku University)
14:40 - 14:55	break
14:55 - 16:30	Group discussion 【categories-A&C】
16:30 - 16:45	break
16:45 - 18:45	Group discussion 【categories-A&C】
18:45 - 19:00	break
19:00 - 20:30	dinner
20:30 -	free group discussion

Aug. 25(Sun)

- 8:50	breakfast
9:00 - 10:20	Group discussion 【categories-A&C】
10:30 - 10:40	break
10:30 - 12:00	Lecture 【category-A】 "Key Issues for Understanding Atomistic Mechanisms of Phase Transformation and Precipitation in Advanced High Strength Steels" Tadashi Furuhashi (Professor, Institute for Materials Research, Tohoku University)
12:00 - 13:10	lunch break
13:10 - 14:40	Group discussion 【categories-A&C】
14:40 - 15:00	break
15:00 - 16:30	Presentaion of the group research proposal & discussion 【categoris-A&C】
16:30 - 16:40	Closing Address
16:40 - 17:00	Participants' questionnaire survey
17:00 - 18:00	Shuttle Bus to IMR, Tohoku Univ leaves Hotel Azuma-ya. (option)

category (A) : wide knowledge of computational materials science from basic science to application

category (B) : high-performance computing technology and technique

category (C) : researcher skills needed in industry, government and academia such as communication skills, presentation skills, and so on