

# InfoSyEnergy Research and Education Consortium 6th InfoSyEnergy Members-only Workshop for Energy Research “ENERGY MATERIALS INFORMATICS”

MI (Materials Informatics) is attracting ones' attention in the world as an emerging discovery and developing method in materials science using informatics and machine learning. This workshop will focus on MI, and up-and-coming researchers give lectures on fundamental and general knowledge, successful applications, examples of data storage and utilization methods that are important for MI, and applications to all-solid-state battery related materials. Panel discussion will clarify development issues for "Energy Materials Informatics" such as selection of MI methods and data acquisition methods unique to energy-related materials. In addition, the activities of the Tokyo Tech Academy for Convergence of Materials and Informatics (TAC-MI) and Tokyo Tech Green Transformation Initiative (GXI) will be introduced.

2022 July 25 (Mon)

13:00 open

Members only

Tokyo Tech faculty and students may participate.

Online delivery by Zoom  
Registration required  
Deadline is July 20

Language: Japanese  
English simultaneous  
interpretation

## ■ Schedule

- 13:00 **Opening greetings**  
**Osamu WATANABE** (Executive Vice President for Research, Tokyo Tech)
- 13:05 **Materials Informatics and Future Activity Plans in InfoSyEnergy**  
**Manabu IHARA** (Head of consortium, Director of Academy of Energy and Informatics, Professor; School of Materials and Chemical Technology, Tokyo Tech)
- 13:13 **Activity of Tokyo Tech Academy for Convergence of Materials and Informatics (TAC-MI)**  
**Takeo YAMAGUCHI** (Institute of Innovative Research, Major in Energy Science and Engineering; Professor, Director of TAC-MI, Program Coordinator, Tokyo Tech)
- 13:19 **Activity of the Green Transformation Initiative of Tokyo Tech (Tokyo Tech GXI)**  
**Yukitaka KATO** (Institute of Innovative Research, Director of Laboratory for Zero-Carbon Energy, Professor, Leader of Tokyo Tech GXI)
- 13:25 **Outline of Workshop**  
**Masaaki HIRAYAMA** (Professor; School of Materials and Chemical Technology, Tokyo Tech)
- 13:30 **Lecture 1 「Scientist-Extended Materials Informatics」**  
**Yuma IWASAKI** (Senior Researcher; National Institute for Materials Science)
- 14:00 **Lecture 2 「MI and DX」**  
**Tetsuya SHOJI** (Chief Professional Engineer; Toyota Motor Corporation)
- 14:30 **Lecture 3 「Development of All-Solid-State Battery Materials and Utilization of Informatics」**  
**Masaaki HIRAYAMA** (Professor; School of Materials and Chemical Technology, Tokyo Tech)
- 15:00 <Break>
- 15:10 **Panel discussion**  
Theme : 「Expectations and Challenges for Energy Materials Informatics」  
Moderator : **Manabu IHARA** (Head of consortium, Director of Academy of Energy and Informatics)  
Panelists : **Yuma IWASAKI** (Senior Researcher; National Institute for Materials Science)  
**Tetsuya SHOJI** (Chief Professional Engineer; Toyota Motor Corporation)  
**Masaaki HIRAYAMA** (Professor; School of Materials and Chemical Technology, Tokyo Tech)
- 16:10 **Closing greetings**  
**Manabu IHARA** (Head of consortium; Director of Academy of Energy and Informatics; Professor, School of Materials and Chemical Technology, Tokyo Tech)

Registration ▶

▶▶ <https://us06web.zoom.us/meeting/register/tZUvd-uhrzMvHtwSjaeRyUZv9E4UdWqZkNrp>  
After registering, you will receive an email within a few days.  
Tokyo Tech faculty and students must register using "titech.ac.jp" email address.