

講演会のご案内

講演者：**Manfred Kappes** 教授（カールスルーエ工科大学）

日時：2026 年 10 月 13 日（火）13:00～15:00

会場：**W1-D-315 講義室**

題目：“**Cluster Ions in Isolation: From Structure to Function**”

要旨：

Selected studies of bare and ligand-stabilized transition-metal clusters probed in isolation will be presented. Trapped-ion electron diffraction, ion mobility spectrometry and (time-resolved) photoelectron spectroscopy reveal how geometric and electronic structure depend on cluster size and ligand termination.

Manfred Kappes 教授は、1981 年にマサチューセッツ工科大学（米国）にて博士号取得（物理化学）、1987 年にベルン大学（スイス）で Habilitation（教授資格）取得、その後、ノースウエスタン大学（米国）で助教授、准教授を経て、1991 年にカールスルーエ大学（現 カールスルーエ工科大学）教授に就任し、現在に至っています。2011 年には、ドイツ科学アカデミー・レオポルディーナ会員にも選出されています。

Kappes 教授は、ドイツの化学・物理化学分野を代表する研究者の一人であり、原子分子クラスターをはじめとするナノ材料科学の分野を、世界的な第一人者として牽引しておられます。特に、独自の気相イオン分光法・電子線回折法の開発に基づいて、金属クラスターや炭素ナノ構造体など、ナノスケール物質の構造・物性の研究で数々の業績を挙げ、ナノサイエンス・ナノテクノロジーの発展に大きく貢献しています。

今回、東京大学 佃 達哉教授が世話人となり、分子科学研究奨励森野基金の森野レクチャー講演者として来日され、国内数カ所での講演会の一つとして、九州大学にもお立ち寄りくださることになりました。

奮ってご参加くださいますよう、ご案内申し上げます。

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Announcement of Visitor's Lecture

Lecturer: **Prof. Dr. Manfred Kappes** (Karlsruhe Institute of Technology)

Date and time: **October 13, 2026 (Tue) 13:00 – 15:00**

Venue: **Room W1-D-315**

Title: **“Cluster Ions in Isolation: From Structure to Function”**

Abstract:

Selected studies of bare and ligand-stabilized transition-metal clusters probed in isolation will be presented. Trapped-ion electron diffraction, ion mobility spectrometry and (time-resolved) photoelectron spectroscopy reveal how geometric and electronic structure depend on cluster size and ligand termination.

About the lecturer:

Prof. Dr. Manfred Kappes obtained his Ph.D in Physical Chemistry from Massachusetts Institute of Technology, USA, in 1981. He conducted his research in University of Bern, Switzerland, where he earned his Habilitation in 1987. He was then appointed as Assistant Professor and Associate Professor in Department of Chemistry, Northwestern University, USA. Since 1991, he has been appointed as a professor at Institute for Physical Chemistry, University of Karlsruhe (currently Karlsruhe Institute of Technology), Germany. In 2011, he was elected to the German National Academy of Sciences Leopoldina.

Prof. Dr. Kappes is one of Germany's leading researchers in chemistry and physical chemistry and is internationally recognized as a pioneering scientist in the field of nanomaterials science, including atomic and molecular clusters. In particular, through the development of innovative gas-phase ion spectroscopy and electron diffraction techniques, he has made numerous seminal contributions to the study of the structures and properties of nanoscale materials such as metal clusters and carbon nanostructures. His work has significantly advanced the fields of nanoscience and nanotechnology worldwide.

This time, Prof. Kappes is hosted by Prof. Tatsuya Tsukuda at the University of Tokyo, visiting Japan as a Morino Lecturer supported by the Morino Foundation for Molecular Science. As a part of his lecture tour across Japan, he is also visiting us in Kyushu University.

We cordially invite you to participate in the lecture.

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