

# WELCOME TO ISOM'22

## WELCOME STATEMENT FROM THE ORGANIZING COMMITTEE CHAIRPERSON

We decided to hold the 32nd ISOM (ISOM'22) in a considerably different style from the original plan, in response to the spread of COVID-19 infections. The conference will be held in a HYBRID format from July 31 to August 3, 2022 at the Sapporo Convention Center, Sapporo, Japan.



On behalf of the ISOM organizing committee, I am delighted to welcome all of you to the ISOM'22.

The last ISOM meeting held online, was successful to share new developments of holographic memories, digital holography, computational imaging, bio-sensing, display, nanophotonics and plasmonics, etc.

In 2017, ISOM extended the conference scope to broader optical fields and applications, and changed the conference name as “International Symposium on Imaging, Sensing, and Optical Memory.” The new ISOM includes the fields of image sensing, medical and bio-optics, nano photonics, information system, holographic technologies, as well as optical memory. We believe that the change of ISOM produces technological innovations in imaging and sensing technologies, and many applications of optical memory technologies in the fields of medical and bio-technologies, image sensing, nanotechnologies, etc.

We are very proud of the ISOM activities, because many of technologies leading new developments and new applications have been first presented and discussed in ISOM meeting. Since the first ISOM meeting in 1987, ISOM has led innovation of optical memory and economic growth in optical industry.

I sincerely ask all of ISOM'22 participants to discuss on new technologies of the next generation optical memory and new applications of optical memory technologies in coming ISOM'22.

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Tsutomu Shimura

ISOM'22 Organizing Committee, Chairperson

# INTRODUCTION

The 32nd ISOM (ISOM'22) will be held from July 31 to August 3, 2022 at the Sapporo Convention Center, Sapporo, Hokkaido Japan, jointly with the CLEO-PR2022 and the ODF'22.

The origin of ISOM is SOM (Symposium on Optical Memory), which was held firstly in 1985 in Tokyo as a Japanese domestic symposium. The first ISOM (International Symposium on Optical Memory) was held in 1987 also in Tokyo. Until 1994, ISOM and SOM were held alternately every other year, and since 1995, ISOM has been held every year. The total number of papers of the past symposiums has reached 3,669, and the total number of participants has reached 10,726.

The purpose of the symposium was to provide a forum for information exchange on a broad range of topics covering science and technology in optical memory and its related fields. However, information explosion in the internet and cloud service has been enforcing optical memory to change from that for consumer storage to that for enterprise storage. Many colleagues of us have been seeking for new frontiers of optical memory technologies. Considering this situation, the scopes of ISOM are being continuously updated and have been reorganized in 2016. To further highlight them, the official name of ISOM was changed from “International Symposium on Optical Memory” to “International Symposium on Imaging, Sensing, and Optical Memory” in 2017. Paper submissions related to the new scopes as well as the conventional ones would be strongly encouraged.

In ISOM'22, along this direction, it will be very much expected to discuss the current status of optical memory, imaging, sensing, and other related technologies. ISOM'20, and '21 were held online under COVID-19. In ISOM'22, as the poster session will be held online, the demonstration session will NOT resume at the symposium. But, ISOM'22 will resume REGULAR ORAL session.

We are looking forward to your paper submission and seeing you in Sapporo, Hokkaido, Japan.