



# The 1<sup>st</sup> International Seminar on Distancing-Free Mask as an Alternative to Lock-down

## ISDFM 2023

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### Summary

At this moment, lockdowns could still be required if COVID-19 (by a new variant) or another airborne infectious disease appear. An alternative to lockdown is in still potentially high demand.

An international research collaboration project has been conducted for proposing low-cost and high-performance Powered Air-Purifying Respirator (PAPR) as an alternative to lockdown, which consists of Japan, Philippines and Singapore researchers.

In the international project, some prototypes of low-cost, comfortable, easy-to-use PAPR “Distancing-Free Mask” with high shielding rate for aerosols have been developed,

In this international seminar, the current status and the future prospects are reviewed and discussed. Newly joiners, who are interested in this project, are warmly welcome!



### Features

#### [A] Almost-perfect shielding performance

[A1] Only the purified air is supplied to inside the hood.

[A2] High performance filter, which shields 99.97% of aerosol down to 0.3 $\mu$ m, is used for air intake.

[A3] Internal differential pressure is kept positive, so that the outside air cannot enter to inside the hood through gaps possibly created at the airtight seal.

#### [B] Connectivity to smartphone and the Internet

[B1] Operational parameters can be monitored/set using smartphone via Bluetooth. It can be connected to “Wearing Rate Network Management System” to be developed.

#### [C] Suitability for use in hospitals

[C1] Ears are exposed, so that natural is easy.

### Distancing-Free Mask Frontline Prototype-No.1

### Onsite-venue

**Venue:** Innovation Laboratory (I-Lab), Engineering Building (3rd Floor, Rm EN306),

Main Campus, Cebu Technological University (CTU)

**Date:** Monday 24th July 2023

**Time:** 14:00-17:00

### Zoom-online

Meeting-ID: 889 3094 5870

Meeting-passcode: ask to Contact Point for online registration

### Website

<https://conf.ejikei.org/ISDFM2023/ISDFM2023.htm>



### Hosted by

College of Engineering, Cebu Technological University (Philippines)

### Supported by

NPO e-JIKEI Network Promotion Institute (Japan)

### Program

#### Keynote Lecture-1

Prof. Yusaku Fujii (Gunma University, Japan)

Overview of the Distancing-Free Mask Cebu Project

#### Keynote Lecture-2

Prof. Ronald M. Galindo (Cebu Technological University, Dean, College of Engineering)

Low-Cost Powered Air-Purifying Respirator (PAPR) “Distancing-Free Mask Frontline (DFM-F) Prototype No.1”

#### Keynote Lecture-3

Prof. Seiji Hashimoto (Gunma University, Japan)

Control Design for Distancing-Free Mask

### Panel Discussions on the Distancing-Free Mask Cebu Project

### Contact Address

Ms. Sheila Mae E. Querubin

E-mail address: [sheilamae.querubin@ctu.edu.ph](mailto:sheilamae.querubin@ctu.edu.ph)