

# 2020 Joint Research Workshop

2019-2020 Project Final Report

2020-2021 Project Plan

**Organizer: Tokushima University  
National Taiwan University of Science and Technology**

**Date: July 21th (Tuesday), 2020**

**Time: 10:00-16 : 15 (Taiwan), 11:00-17 : 15(Japan)**

**Meeting Type : Web [Teams]**

## Program at a glance

Time(Taiwan)	Time(Japan)	Agenda
10:00-10:20	11:00-11:20	Opening Ceremony (Welcome speech & Web group photo) Tokushima University : Dean Prof. Hideo Yamanaka Taiwan Tech : Vice Dean Prof. Shien-Kuei Liaw
10:20-11:40	11:20-12:40	Session 1 2018-2019 Project Final Report 2020-2021 Project Plan
15:00-16:05	16:00-17:05	Session 2 2018-2019 Project Final Report 2020-2021 Project Plan
16:05-16:15	17:05-17:15	Closing Ceremony Taiwan Tech : Director of ScPA Prof. Meng-Yi Bai Tokushima University : Vice Dean Prof. Mikito Yasuzawa

# Program - Project Report -

## Session 1

Time(Taiwan)	Time(Japan)	Project	Chair Prof. Yoshihiro Deguchi
10:20-10:45	11:20-11:45	<p>[2019-2020] Development Recovery Process of Phosphorous Using Unused Waste as Key-resource</p> <p>[2020-2021] Development on Recycle Technology of Depleted Phosphorous from Unused Resources</p> <p>Prof. Jhy-Chern Liu (Taiwan Tech) / Prof. Shigeru Sugiyama (TU)</p>	
10:45-11:10	11:45-12:10	<p>[2019-2020] Fast Algorithm and Hardware Implementation of Neural Ordinary Differential Equations for Edge Computing</p> <p>[2020-2021] Hardware Implementation of NODE for edge computing</p> <p>Prof. Jenq-Shiou Leu (Taiwan Tech) / Prof. Tian Song (TU)</p>	
11:10-11:25	12:10-12:25	<p>[2019-2020] White light-emitting diodes based on cesium-based halide perovskite quantum dots</p> <p>Prof. Liang-Yih Chen (Taiwan Tech) / Prof. Akihiro FURUBE (TU)</p>	
11:25-11:40	12:25-12:40	<p>[2020-2021] Enhanced photoluminescence property of ceramic phosphors by nano-coating</p> <p>Prof. Shao-Ju Shih (Taiwan Tech) / Prof. Masatsugu Oishi (TU)</p>	

## Session 2

<b>Time(Taiwan)</b>	<b>Time(Japan)</b>	<b>Project</b>	<b>Chair Prof. Meng-Yi Bai</b>
<b>15:00-15:25</b>	<b>16:00-16:25</b>	<p><b>[2019-2020]</b>  <b>Optical fiber sensing and flexible free-space optical communication systems</b></p> <p><b>[2020-2021]</b>  <b>Optical fiber sensing and optical communication systems II</b></p> <p><b>Prof. Shien-Kuei Liaw (Taiwan Tech) / Prof. Hiroki Kishikawa (TU)</b></p>	
<b>15:25-15:50</b>	<b>16:25-16:50</b>	<p><b>[2019-2020]</b>  <b>A Versatile Control Framework of Active Mass Damper System for Mitigating Structural Vibration</b></p> <p><b>[2020-2021]</b>  <b>Real-Time Hybrid Simulation with Discrete Element Methods</b></p> <p><b>Prof. Pei-Ching Chen (Taiwan Tech) / Prof. Narutoshi Nakata (TU)</b></p>	
<b>15:50-16:05</b>	<b>16:50-17:05</b>	<p><b>[2020-2021]</b>  <b>Design of new track-etched microporous membrane electrodes with noble metal-free electrocatalyst for flow-based biosensing devices</b></p> <p><b>Prof. Min-Hsin Yeh (Taiwan Tech) / Prof. Hitoshi Mizuguchi (TU)</b></p>	