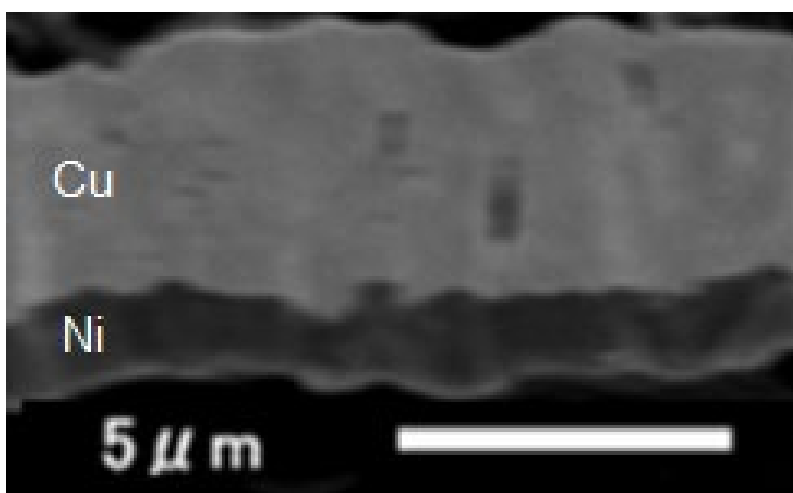


October 5, 2021
Elephantech Inc.

Announcing the Development and Evaluation of Inkjet Processes for Nickel Electrodes and Wiring

Elephantech Inc.¹ ("Elephantech") is pleased to announce that, in collaboration with SSTechno Inc.² ("SSTechno") and the Osaka Research Institute of Industrial Science and Technology³ ("ORIST"), the company has begun development and evaluation of nickel nano inks for inkjet printing.



Cross-section of a sample with bar-coated Ni ink laminated by electroless Cu plating

The project focuses on studying inkjet printhead compatible Ni nano ink compositions and sintering conditions for ensuring conductivity after printing. Elephantech will continue to expand the variety of metal ink types the company handles to promote further the use and application of inkjet technologies in an ever-growing number of fields, including electronic component manufacturing processes.

[Key point of the announcement: the roles of the three parties]

Elephantech, ORIST and SSTechno are collaborating on a project to make electrode layers even thinner. ORIST has successfully developed Ni nanoparticles with a diameter of under 50 nm while SSTechno and Elephantech are respectively working on developing ink formulations and inkjet processes.

Regarding the contents of this release, further announcements are to be made by Elephantech with a poster presentation and panel session scheduled for The Japan Institute of Electronics Packaging Work Shop to be held on October 15, 2021.

¹ Elephantech Inc. (headquarters: Chuo-ku, Tokyo, CEO: Shinya Shimizu)

² SSTechno Inc. (headquarters: Ogori City, Fukuoka Prefecture, CEO: Kenshu Oyama)

³ Osaka Research Institute of Industrial Science and Technology (headquarters: Izumi City, Osaka Prefecture, President: Tetsuhiko Kobayashi)

Company Overview

Name	Elephantech Inc.
Establishment	January 2014
Headquarters	4-3-8 Hatchobori, Chuo-ku, Tokyo 104-0032, Japan
Representative	Shinya Shimizu, CEO
Capital	JPY 100 million
Number of employees	59
Business description	Development of printed electronics manufacturing technology and provision of related services
URL	https://www.elephantech.co.jp/en/

As of September 1, 2021

Name	SSTechno Inc.
Establishment	December 2010
Headquarters	433-6 Terafukudo, Ogori City, Fukuoka 838-0138 , Japan
Representative	Kenshu Oyama, CEO
Capital	JPY 1 million
Business description	Development support and sales of electronics-related equipment and materials and provision of services
URL	https://www.sstechno.net

Name	Osaka Research Institute of Industrial Science and Technology
Headquarters	1-6-50 Morinomiya, Joto-ku, Osaka 536-8553, Japan
URL	https://orist.jp/

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