Tokyo Textile Scope 2027 Autumn/Winter

2026/10/14～10/16

TOKYO KASEI UNIVERSITY

Polarized Textile Introduction

At the Oi Laboratory, Department of Costume and Clothing Science, Tokyo Kasei University, we conduct integrated research ranging from textile design and prototyping to dress production using innovative polarized yarn developed by Yamamoto Chemicals, Inc. For jacquard weaving, we received technical advice from Okamura Orimono, which enabled us to produce sophisticated prototypes. This exhibition presents works that highlight the unique characteristics of polarized yarn through different approaches.

Work 1: Python - The Python Awakens in Light

By interweaving black silk yarn with polarized yarn, the three-dimensional texture of python scales is created by the weave structure itself. As the angle of light changes, the fabric shifts from grayish brown to black, revealing a mysterious appearance as if awakened by light.

Textile Design: Aoi Yamaguchi / Ryu Oi
Polarized Yarn: Yamamoto Chemicals, Inc.
Weaving: Okamura Orimono

Work 2: Shadow Check - Hidden Blue Magic

A shadow-check jacquard woven from deep black silk yarn and polarized yarn. By precisely reversing the direction of the twill weave, the pattern quietly emerges as the angle of light changes. Under strong light, a mysterious blue glow appears from deep within the fabric, an effect unique to polarized yarn.

Textile Design: Yu Aoyama / Ryu Oi
Polarized Yarn: Yamamoto Chemicals, Inc.
Weaving: Okamura Orimono

Work 3: Rose Dress - Rose Shadows Woven by Light

A rose motif is woven with red polarized yarn, and the warp yarns are then dyed blue to create a deep chambray effect. The 1/2-scale dress uses frills and gathers to vary the angle of the fabric surface, intentionally bringing out complex, multicolored changes caused by differences in the angle of reflected light.

Textile Design: Sara Numakura, Dyeing: Ryu Oi
Dress Construction: Nonose Hara
Polarized Yarn: Yamamoto Chemicals, Inc.
Weaving: Okamura Orimono

Inquiries Regarding Polarized Yarn and Fabric

Yamamoto Chemicals, Inc.
https://www.yamamoto-chemicals.co.jp/
Contact: Takamichi Amako
Email : Takamichi.Amako@yk.mitsuichemicals.com

Tokyo Kasei University
https://www.tokyo-kasei.ac.jp/
Contact: Ryu Oi
Email : oi-r@tokyo-kasei.ac.jp

ENG

Polarized Textiles

https://youtu.be/3afOxzjI_po