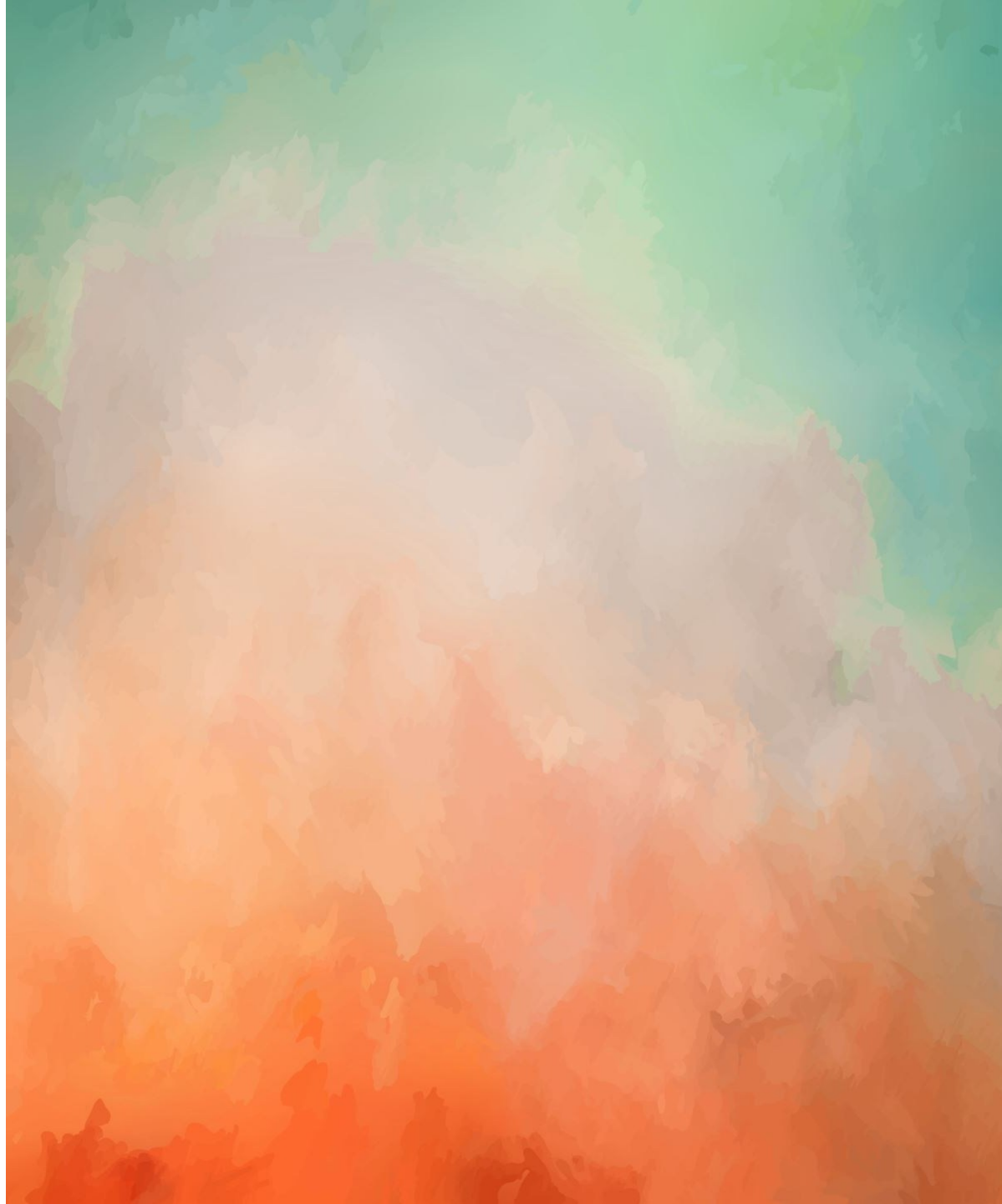
Tsuruga International Symposium 2026

My Path and Aspirations in Nuclear Energy

RYOTA KOBAYASHI
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DEPARTMENT OF APPLIED NUCLEAR TECHNOLOGY,
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FUKUI UNIVERSITY OF TECHNOLOGY



Self-Introduction

Name: Ryota Kobayashi

Hometown: Fukui City, Fukui Prefecture

Affiliation:

Department of Applied Nuclear Technology, Faculty of Engineering,

Fukui University of Technology

Research:

Measurement of turbine rotational speed using light

Measurement of other values

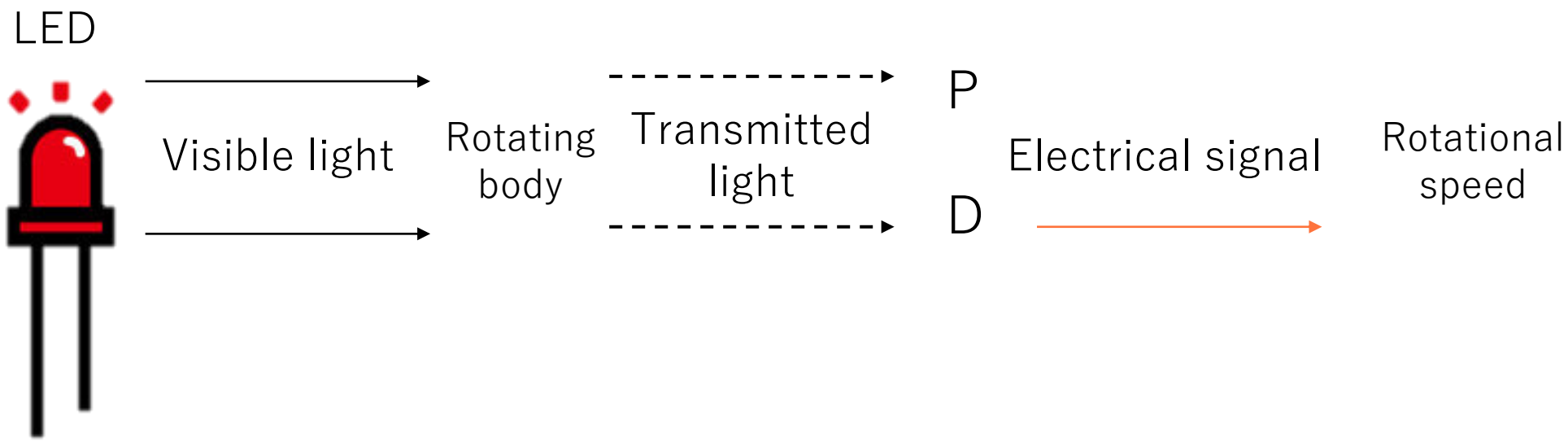
What Led Me to Study Nuclear Energy

- An environment that allows me to specialize in nuclear energy
  I was able to progress directly from high school to university within the same institution.

- A wide range of career paths
  Nuclear technology is used in more than just the energy sector.
  Opportunities exist in various fields, including energy, manufacturing, and healthcare.

Research

Research Schematic



Future Goals

- Studying for professional qualifications

  Aiming to obtain the Class I Radiation Protection Supervisor qualification

- Defining the direction of my research

  Select specific experimental techniques and review existing studies to develop a novel research approach.

Vision for Future Nuclear Energy

- Establishing a nuclear fuel cycle

  A dual approach that combines the light-water reactor cycle with the fast breeder reactor cycle

- Introducing advanced reactors

  Operation of advanced light-water reactors and high-temperature gas-cooled reactors

What I Can Do

Shaping the future of nuclear energy requires both people who create technology and people who use technology.

It begins with helping more people learn about nuclear energy, and:

- Promoting the appeal of the nuclear energy sector

  Highlighting the unique contributions of the nuclear energy sector

- Participating in a variety of events

  Promoting Fukui University of Technology's nuclear energy initiatives through these events