Curriculum Vitae

Candidate: YT

July 2024

Summary of Career

In 1981, assigned to the research laboratory of the petrochemical division of Chisso Corporation (now JNC Corporation), where I joined the development team for plasticizers for PVC, responsible for the synthesis and physical property evaluation of new plasticizers. I was then seconded for 2 years to the Sagami Chemical Research Institute, engaged in the development of agrochemicals and platinum-based antitumor agents. The agrochemical was brought to market and received the 2001 Pesticide Science Society Award. After returning, following hands-on experience at the Ichihara Plant, I served as a group leader at the Ichihara Research Laboratory, involved in the development and market launch of oxo products, including process development and plant construction for octylic acid and isobutyraldehyde derivatives (Texanol, TXIB). In 2002, I was transferred to the Chemicals Division at the Tokyo Head Office, in charge of new product development. A representative achievement was developing liquid crystal materials in collaboration with several other companies, leading to their manufacture and market launch. I became Technical Director in 2006 and Director of the Minamata Research Laboratory in 2010, and in 2012 was appointed Head of the Business Development Office, promoting materials development aimed at entering the semiconductor field, in charge of managing the development of photoresist monomers for ArF, cleaning gases for semiconductor manufacturing equipment, and silicon wafer surface treatment agents.

Since April 2017, I have served as technical advisor to the division as a contract employee, working on special diols for polycarbonate optical materials, fragrances, monomers for biodegradable resin raw materials, 5G-related materials, cosmetic ingredients, remdesivir raw materials, and more. I retired in February 2021 and now work as a consultant.

Key Selling Points

I have manufactured 2-ethyl-1-butanol, a raw material of remdesivir, the COVID-19 treatment drug (JNC is the only manufacturer in the world), and have developed and manufactured a variety of functional compounds such as liquid crystals and photoresists using two highly hazardous gases, oxo gas and ketene gas. Recently, I have worked on manufacturing an alicyclic diol, an optical material for smartphone lenses, jointly with MGC, and on developing high-purity technology for silicon wafer surface treatment agents; I am confident that the value of my experience and knowledge at JNC is extremely high.

Career History

JNC Corporation, Tokyo Head Office (November 2011 – Present)

Start	Department	Position	Duties
November 2011	Chemicals Division Business Development Office	Head of Office → Technical Advisor (from April 2017)	- Semiconductor materials development and promotion of market launch: photoresist monomers, environmentally friendly cleaning gas for semiconductor manufacturing equipment, wafer surface treatment agents for semiconductors, insulating film materials - Strengthening of existing businesses of the Chemicals Division - Search for new themes (special diols for PC, etc.)

JNC Corporation, Minamata Research Laboratory (April 2010 – November 2011)

Start	Department	Position	Duties
April 2010	Minamata Research Laboratory	Director	- Overall management of the laboratory (theme promotion, personnel management, quality control)

JNC Corporation, Tokyo Head Office (June 2002 – April 2010)

Start	Department	Position	Duties
April 2006	Chemicals Division	Technical Director	- Technical oversight of the division's research, manufacturing and quality - Management of liquid crystal material development (liquid crystal viscosity-reducing materials) through collaboration with other companies, and promotion of new themes (propyl acetate, ethyl acetate, plasticizers for safety glass interlayers, diols, isoamyl alcohol, acetylacetone, glycerin derivatives, acid anhydrides, ketones, etc.)
June 2002	Chemicals Division	Technical Staff	- In charge of technical matters for research and manufacturing of the above division

JNC Petrochemical Corporation (October 1994 – June 2002)

Start	Department	Position	Duties
October 1994	Ichihara Research Laboratory	Group Leader	- In charge of the Ichihara Research Laboratory for the above Chemicals Division - Support for manufacturing departments - Training of researchers
May 1992	Ichihara Plant	Manufacturing Department Section Chief	- Plant management for plasticizer production (DOP, DINP, DBP, DOA) - Management of aldehyde derivative plants (ketones, Texanol, TXIB)
November 1987	Ichihara Research Laboratory	Researcher	- Process development for agrochemical active ingredients - Application development of oxo derivatives (diols)

Secondment to Sagami Chemical Research Institute (May 1985 – November 1987)

Start	Department	Position	Duties
May 1985	Research Group 1 Organometallic Research Laboratory	Researcher	- Agrochemical development - Development of platinum-based antitumor agents

JNC Petrochemical Corporation (October 1981 – May 1985)

Start	Department	Position	Duties
October 1981	Ichihara Research Laboratory	Researcher	- Development of plasticizers for PVC (synthesis and evaluation) (water-resistant polyester plasticizers, heat-resistant plasticizers) - Support for manufacturing departments (synthesis, analysis, literature searches, etc.)

Experience, Knowledge and Skills to Contribute

- Knowledge of manufacturing processes for petrochemical products
- Knowledge of the structure and performance of plasticizers for PVC
- Knowledge of ketene reactions
- Knowledge of oxo reactions and aldehyde chemistry

- Ability to search paper and patent information
- Ability to calculate costs of chemical products

Qualifications

- High-Pressure Gas Production Safety Manager (Class A Chemical) (1990)
- Pollution Control Manager (Air, Class 1) (1990)
- Pollution Control Manager (Water Quality, Class 1) (1985)
- Hazardous Materials Engineer (Class A) (1985)
- TOEIC: 735 points (August 2015)

Self-Promotion

Working at a general chemical company, I have experienced research and development, manufacturing and planning departments, and at the same time have built a wide network of contacts through information exchange with manufacturers and users in Japan and overseas. Through patent and paper surveys, construction of manufacturing processes, judging the competitiveness of developed products based on capital investment and cost estimates, and extensive experience of collaboration with other companies, I believe I can capture business opportunities in many areas.