

Dr. Christoph Liebald

Professional Experience

since 2024

Product Line Manager (PLM) for Crystal Products, Coherent (formerly EOT GmbH)
Idar-Oberstein, Germany

Responsibility for product line management in the sales division

Continued involvement in the R&D department

2017 - 2024

Research Scientist, Research & Development
EOT GmbH / Coherent, Idar-Oberstein, Germany

Work in the R&D department with focus on crystal development

2013 - 2017

Doctoral Candidate (Dr. rer. nat.)
FEE GmbH (Research Institute for Metallic and Mineral Materials – Gemstones, Precious Metals), Idar-Oberstein, Germany

Thesis: Optimization of crystal quality of Yb:CALGO

Completed: 2017

Education

Geosciences
Johannes Gutenberg University Mainz, Germany

Note on company history:

2013-2022: FEE GmbH (public research institute)

from 2022: Integration into Coherent (formerly EOT GmbH)

Presentation Abstract

This presentation will introduce our crystal growth and production site and showcase the diverse portfolio of materials we produce. A detailed analysis will focus on defect characterization in Yb:CALGO, one of our key materials for ultrashort pulse laser applications. Particular attention will be given to color centers and inclusions, which significantly impact crystal quality and performance. The presentation may conclude with a general overview of crystal growth principles.