

Rebecca Dylla-Spears received her PhD in Chemical Engineering at the University of California, Berkeley in 2009. She is currently a group leader in Advanced Optical Materials & Processing Science and Technology at Lawrence Livermore National Laboratory (LLNL) in northern California, USA, where she manages efforts to support optics needs for current and future laser programs. Rebecca leads a research program to additively manufacture glass and optics that contain functional gradients in material properties. Previously, Rebecca has served as a subject matter expert for growing cryogenic, single-crystalline deuterium-tritium fuel layers for fusion experiments on the National Ignition Facility. She helped develop processes for fabrication of specialized laser optics used in the High-repetition-rate Advanced Petawatt Laser program and was part of an R&D100 Award winning team for her work on polishing slurry stabilization and filtration. Rebecca was recognized in 2018 with an Early-Mid Career Award at LLNL.