

Abstract Submitted
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Recreation of Natural Optical Phenomena TIFFANY PAONESSA,
PETER SHELDON, Randolph College — This project was undertaken to study and
fully understand optical atmospheric phenomena. Research was done on the struc-
ture and formation of colorful atmospheric phenomena including, but not limited
to, primary, secondary, and supernumerary rainbows, halos, parhelia, and glories.
This study also undertakes an attempt to create some of these phenomena. Using
hand-made epoxy crystals for ice, a round bottom flask as a water droplet, and
a high-powered halogen lamp for sunlight, primary, secondary, and supernumerary
rainbows and halos were created and photographed.

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