

## Mid-IR Fluorescence of Ho<sup>3+</sup> -doped Low-Phonon Single Crystals and Chalcogenide Glasses

Recently there has been renewed interest in rare-earth ion doped low-phonon crystals and glasses as gain media for possible compact mid-IR lasers. In this work, mid-IR fluorescence characterization of Ho<sup>3+</sup> doped low-phonon energy crystals (NaYF<sub>4</sub>, CsCdCl<sub>3</sub>) and glasses (Ga<sub>2</sub>Ge<sub>5</sub>S<sub>13</sub>) were explored.

**Primary authors:** BROWN, Ei Ei (DEVCOM Army Research Laboratory, Adelphi, USA); FLEISCHMAN, Zackery (DEVCOM Army Research Laboratory, Adelphi, USA); MCKAY, Jason (DEVCOM Army Research Laboratory, Adelphi, USA); HOMMERICH, Uwe (Hampton University, Hampton, USA); PALOSZ, Witold (Brimrose Corporation of America, Adelphi, USA); TRIVEDI, Sudhir (Brimrose Corporation of America, Adelphi, USA); DUBINSKII, Mark (DEVCOM Army Research Laboratory, Adelphi, USA)

**Presenter:** BROWN, Ei Ei (DEVCOM Army Research Laboratory, Adelphi, USA)

**Session Classification:** Lunch and Poster Session 2