Development of a tunable differential absorption lidar using a mid-infrared laser to detect toxic gasses

INAGAKI, Masaki1*, KAWAHARA, Taku D.1, TOMIDA, Takayuki2, SAITO, Norihito2, WADA, Satoshi2

1Shinshu University, 2Optical Green Tech., ASI, RIKEN

Shinshu University is cooperating with RIKEN to develop a differential Absorption LIDAR (DIAL) using a mid-infrared laser to detect toxic gasses with a high sensitivity. The gasses have the individual absorption spectrum in mid-infrared region. So we are developing a tunable laser with the spectral range of 6~10 micro m. In this talk, we present the detail lidar system, especially with a data acquisition system.

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