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### Strategic Laser Communications Program. Volume 1. Proceedings of the Navy/DARPA Fourth Technical Interchange Meeting, 25-27 March 1980

Authors: [NAVAL OCEAN SYSTEMS CENTER SAN DIEGO CA](#)

**Abstract:** Partial contents: OSCAR spaceborne system--phase IB; Subsystem Technology--Cesium atomic resonance filter studies; Birefringent blue-green filters, Iso-index electro-optic filter, Christiansen-Bragg filters, Thermal control for hole-burning filter, and Non linear optical phase conjugation for SLC uplink; Space-Based Laser--Status of blue-green discharge laser work at NRL, Efficient Raman conversion of XeCl laser into the blue-green region, Lead vapor conversion of an X-ray preionized XeCl laser, Excimer laser engineering development at LASL, UTRC blue-green laser research, Mercury bromide laser scaling approaches, Parameterization studies of HgBr lasers, HgBr<sub>2</sub>/HgBr dissociation laser, Efficient conversion of XeF\* radiation to the blue-green through SRS, Scaling studies of efficient Raman converters, Ground based XeCl-Pb blue-green source, Tunable blue-green laser development, XeCl lasers for blue-green conversion, Electron beam excited blue-green XeF, and copper laser development; Channel Characterization--Downlink laser cloud propagation experiments, The temporal and spatial smearing of blue-green pulses in clouds, and Kauai cloud experiment measurements: O<sub>2</sub> absorption techniques.

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