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Quantum Well Laser Diode

Award Information

Agency:

Department of Defense

Branch:

Missile Defense Agency

Contract:

N/A

Agency Tracking Number:

26213

Amount:

\$49,852.00

Phase:

Phase I

Program:

SBIR

Solicitation Topic Code:

N/A

Solicitation Number:

N/A

Timeline

Solicitation Year:

N/A

Award Year:

1994

Award Start Date (Proposal Award Date):

N/A

Award End Date (Contract End Date):

N/A

Small Business Information

SDL Inc (/node/301870)

80 Rose Orchard Way

San Jose, CA 95134

United States

DUNS:

N/A

HUBZone Owned:

No

Woman Owned:

No

Socially and Economically Disadvantaged:

No

Principal Investigator

Name: Randy Geels, Phd
Phone: (408) 943-9411

Business Contact

Phone: () -

Research Institution

N/A

Abstract

SPECTRA DIODE LABORATORIES PROPOSES TO DEVELOP NOVEL HIGHER POWER, HIGHER BRIGHNESS QUANTUM WELL LASER DIODES ARRAYS OR BROAD AREA LASERS THAT CAN ALSO OPERATE UP TO TEMPERATURE LEVELS OF 125 C DEGREE. A GOAL DEVICE WOULD BE CAPABLE OF, FOR EXAMPLE, EMITTING 3 W cw OUTPUT POWER FROM A 100 um 10 ELEMENT LASER ARRAY OR 300 mW cw FROM A 3 um WIDE SINGLE MODE LASER. THESE LEVELS ARE 2 TO 3 TIMES THE BRIGHNESS AND POWER OF TODAY'S DEVICES. ALSO, THE MAXIMUM RECOMMENDED OPERATING TEMPERATURE OF TODAY'S DEVICES IS 30 C DEGREE TO 50 C DEGREE. IMPROVEMENTS IN THE QUANTUM WELL LASER STRUCTURE, MATERIALS, AND IN LASER MIRROR TECHNOLOGY ARE USED TO ACHIEVE THESE RESULTS.


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