

ORGANISATION NAME:

Active Sensing Discipline, Optoelectronics Div.

CHIEF CONTACT PERSON:

Robert Seymour

POSTAL ADDRESS:

**PO Box 1500
SALISBURY SA 5108**

PHONE: (08) 259 6563

FAX: (08) 259 5796

E-MAIL: Seymourr@OED.DSTO.GOV.AU

ONE PARAGRAPH SUMMARY OF ACTIVITIES INVOLVING
OPTICS AND LASERS:

Research into laser devices of potential use to the military. Current interests are in diode pumped solid state lasers, eye-safe lasers (Er and raman shifted Nd), frequency shifting and tunable lasers. Optics related to laser resonators and to other aspects of active sensing systems (eg tunable filters) are also of interest. Solid state lasers, diode pumping, raman shifting, eye-safe lasers, tunable lasers, active sensing, tunable filters.

ORGANISATION NAME:

Australian Centre for Medical Laser Technology Inc. (ACMLT)

CHIEF CONTACT PERSON:

Ann Angel

POSTAL ADDRESS:

**Science Park Adelaide
BEDFORD PARK SA 5042**

PHONE: (08) 201 7707

FAX: (08) 201 7571

E-MAIL:

ONE PARAGRAPH SUMMARY OF ACTIVITIES INVOLVING
OPTICS AND LASERS:

The ACMLT is an independent non-profit organisation established to promote the use of medical lasers. The centre provides information, education, clinical trial management to hospitals, governments and medical laser users.

ORGANISATION NAME:

AWA Defence Industries

CHIEF CONTACT PERSON:

Dr John Bartlett

POSTAL ADDRESS:

**PO Box 161
EIZABETH SA 5112**

PHONE: (08) 256 0233

FAX: (08) 255 9117

E-MAIL:

ONE PARAGRAPH SUMMARY OF ACTIVITIES INVOLVING
OPTICS AND LASERS:

AWA Defence Industries undertakes the design, development and manufacture of optical and electro-optical equipment, primarily for military applications. The optical fabrication plant manufactures infra-red, lasers and aspheric components as well as conventional precision-optics. Specialist manufacture is undertaken within the single point diamond machining centre. AWA Defence Industries is a specialist supplier of night vision and other electro-optical imaging and sensing systems.

ORGANISATION NAME:

AWA Defence Industries Pty Ltd

CHIEF CONTACT PERSON:

Gerry Smith

POSTAL ADDRESS:

**2-6 Ardtornish Street,
Holden Hill. SA 5088**

PHONE: **(08) 266 0666**

FAX: **(08) 266 0667**

E-MAIL: **gsmith@awadi.com.au**

ONE PARAGRAPH SUMMARY OF ACTIVITIES INVOLVING
OPTICS AND LASERS :

Activities comprise the design, manufacture and testing of optical systems for surveillance and remote sensing in the infra-red and visible spectral bands. These systems include solid-state lasers, incorporating non-linear optics, for eye-safe and high power applications.

ORGANISATION NAME:

Electronic Warfare Division

CHIEF CONTACT PERSON:

Dr R. Creaser

POSTAL ADDRESS:

**E.W.D. D.S.T.O. Salisbury,
PO Box 1500,
Salisbury. SA 5108**

PHONE: (08) 259 5290

FAX: (08) 259 5938

E-MAIL:

ONE PARAGRAPH SUMMARY OF ACTIVITIES INVOLVING
OPTICS AND LASERS :

Electronic Warfare Division is involved in the applications of acousto-optic, integrated-optic and fibre-optic techniques directed towards solving extremely wide bandwidth signal processing problems of EW systems in the microwave and millimetre-wave frequency range. The Division also has a strong research effort in infrared signature processing and countermeasures.

ORGANISATION NAME:

D.S.T.O.

CHIEF CONTACT PERSON:

Dr. R.H. Harelty

POSTAL ADDRESS:

**PO Box 1500,
SALISBURY. SA 5108.**

PHONE: (08) 259 6377

FAX: (08) 259 5796

E-MAIL:

ONE PARAGRAPH SUMMARY OF ACTIVITIES INVOLVING
OPTICS AND LASERS :

Activities carried out within the Photonic Devices discipline of DSTOs Optoelectronics Division focus on research and development of novel epitaxial growth technology for the production of compound semiconductor materials and devices. This technology involves the use of ellipsometry as a real time analytical tool during molecular beam epitaxial growth of II-VI semiconductors. These materials and devices have application in infra red sensing and imaging, semiconductor laser operating in the visible and infra red, nonlinear optics and photonics.

ORGANISATION NAME:

General Optics Pty Ltd

CHIEF CONTACT PERSON:

Simon Edhouse

POSTAL ADDRESS:

**Box 160,
Kangarilla, South Australia 5157**

PHONE: **(08) 383 7255**

FAX: **(08) 383 7244**

E-MAIL:

ONE PARAGRAPH SUMMARY OF ACTIVITIES INVOLVING
OPTICS AND LASERS :

General optics imports and distributes a wide range of lasers and optics from the former Soviet Union. From small He Ne lasers to large pulsed systems General Optics supplies a range of products at greatly reduced prices.

ORGANISATION NAME:

Coherent Scientific Pty Ltd

CHIEF CONTACT PERSON:

Norman Jones

POSTAL ADDRESS:

**116 Burbridge Road,
Hilton SA 5033**

PHONE: (08) 352 1111

FAX: (08) 352 2020

E-MAIL:

ONE PARAGRAPH SUMMARY OF ACTIVITIES INVOLVING
OPTICS AND LASERS:

Marketing, sale, importation, installation, maintenance of scientific lasers and related equipment.

ORGANISATION NAME:

Jung Precision Optics Pty Ltd

CHIEF CONTACT PERSON:

Heinz Jung

POSTAL ADDRESS:

**27 Brunswick St
Kilburn SA 5084**

PHONE: **(08) 349 4533**

FAX: **(08) 349 4784**

E-MAIL

ONE PARAGRAPH SUMMARY OF ACTIVITIES INVOLVING
OPTICS AND LASER:

Fabrication, custom optics, quartz wavaeplates, defence, infrared materials, laser rods, etc.

ORGANISATION NAME:

Lastek Group of Companies (Including Lastek Pty Ltd and Vast Technologies Pty Ltd.)

CHIEF CONTACT PERSON:

Alex Stanco

POSTAL ADDRESS:

**GPO Box 2212
Adelaide SA 5001**

PHONE: **(08) 231 2155**

FAX: **(08) 231 2169**

E-MAIL

ONE PARAGRAPH SUMMARY OF ACTIVITIES INVOLVING
OPTICS AND LASER:

**Importer/Distributor for overseas manufacturers.
Designers/Manufacturers of - optical systems for illumination and
light collection, fibre optic delivery systems for arc lamps and high
power lasers, diode lasers, laser power supplies, amplifiers for optical
detectors.**

ORGANISATION NAME:

Norseld Pty Ltd

CHIEF CONTACT PERSON:

Peter Davis

POSTAL ADDRESS:

**304 Wakefield Street
Adelaide SA 5000**

PHONE: (08) 223 3844

FAX: (08) 232 0796

E-MAIL

ONE PARAGRAPH SUMMARY OF ACTIVITIES INVOLVING
OPTICS AND LASER:

Norseld is involved in the research and development of copper bromide laser systems with output powers of 10W and 578 and 511 nm. Norseld markets these systems complete with optical and fibre optic accessories for the medical, and specifically, dermatological markets. Norseld has specific expertise in the fabrication and processing of plasma tubes and the design and implementation of high voltage power supplies and control systems.

ORGANISATION NAME:

A.G. Thompson & Co.

CHIEF CONTACT PERSON:

Dr Robert Schaeffer

POSTAL ADDRESS:

**17 Synagogue Place
Adelaide SA 5000**

PHONE: (08) 223 2466

FAX: (08) 232 2594

E-MAIL

ONE PARAGRAPH SUMMARY OF ACTIVITIES INVOLVING
OPTICS AND LASER:

The optical coatings operation, as a commercial venture, has existed since 1980. Virtually all coating work is currently for the Australian precision optics industry and a substantial portion of this goes towards laser component coatings that are required to be hard and durable with a high power threshold for laser damage.

ORGANISATION NAME:

University of Adelaide, Department of Physics

CHIEF CONTACT PERSON:

Jesper Munch

POSTAL ADDRESS:

**GPO Box 498
Adelaide SA 5000**

PHONE: **(08) 303 4749**

FAX: **(08) 232 6541**

E-MAIL

ONE PARAGRAPH SUMMARY OF ACTIVITIES INVOLVING
OPTICS AND LASER:

Teaching and research in lasers, optics, nonlinear optics, noise frequency stabilizing, holography.

ORGANISATION NAME:

Centre for Lasers & Opto-electronics (CLOE)

CHIEF CONTACT PERSON:

Dr A. Pugataschew

POSTAL ADDRESS:

**School of Applied Physics,
University of South Australia
The Levels SA 5095**

PHONE: (08) 302 3356

FAX: (08) 302 3389

E-MAIL

ONE PARAGRAPH SUMMARY OF ACTIVITIES INVOLVING
OPTICS AND LASER:

Involved in industrial research projects involving diode-lasers, optics, medical instrumentation, custom electronics design, optics teaching equipment and material.

ORGANISATION NAME:

Australian Holographics

CHIEF CONTACT PERSON:

Geoffrey Fox

POSTAL ADDRESS:

**PO Box 160
Kangarilla SA 5157**

PHONE: (08) 383 7255

FAX: (08) 383 7244

E-MAIL

ONE PARAGRAPH SUMMARY OF ACTIVITIES INVOLVING
OPTICS AND LASER:

Research, development and marketing (national and international) of all size and type up to ultra large - holograms. Use of several different lasers of powers from small to large and of different wavelengths, including pulse lasers in red and green. Design and use of specialised optics to achieve above.

ORGANISATION NAME:

AWA Defence Industries

CHIEF CONTACT PERSON:

Trefor B. Jones (Optical Production Eng.)

POSTAL ADDRESS:

**2-6 Ardtornish Street
Holden Hill SA 5094**

PHONE: (08) 266 0666

FAX: (08) 266 0667

E-MAIL

ONE PARAGRAPH SUMMARY OF ACTIVITIES INVOLVING
OPTICS AND LASER:

Our activities include the following: - design and fabrication of optical systems in the visible and I.R. spectrum, design and manufacture of piece parts and systems in the visible and I.R., full measuring and testing facilities in visible and i.R. also laser beam profile evaluation, interferometry, photometry, M.T.F., transmission, veiling glare, M.R.T.D. etc.

ORGANISATION NAME:

Jaatco (Australia) Pty Ltd

CHIEF CONTACT PERSON:

Dr Geoff Edwards

POSTAL ADDRESS:

**45 Charles St
Norwood S.A.**

PHONE: (08) 333 2366

FAX: (08) 333 2366

E-MAIL

ONE PARAGRAPH SUMMARY OF ACTIVITIES INVOLVING
OPTICS AND LASER:

**Currently manufacture semiconductor laser diode pointes of spirit level systems for international market (LEICA affiliation)
Developments in laser-based measurement instruments, precision measurement instrements and holographic security readers.
Consulting and contracting services in applications of lasers and optics, and custom development and prototyping. Sales and trading in Japanese opto-electronics as specialist in technical Japanese and opto-electronics.**

ORGANISATION NAME:

Taracan Pty Ltd T/A Laserex systems.

CHIEF CONTACT PERSON:

Keith Degenhardt

POSTAL ADDRESS:

**PO Box 7091
Hutt Street
Adelaide. SA 5000**

PHONE: (08) 223 6644

FAX: (08) 232 6277

E-MAIL

ONE PARAGRAPH SUMMARY OF ACTIVITIES INVOLVING
OPTICS AND LASER:

Laserex Systems is a manufacturer and marketer of laser based systems. Its principle products are Medical Laser Systems, principally for use in ophthalmics. In addition to undertakaingprojects to develop our own products we also undertake a wide range of contract R & D and product development work.

ORGANISATION NAME:

Argyle Diamonds

CHIEF CONTACT PERSON:

John Chapman

POSTAL ADDRESS:

**Locked Bag 11
West Perth WA**

PHONE: (09) 482 1682

FAX: (09) 482 1157

E-MAIL

ONE PARAGRAPH SUMMARY OF ACTIVITIES INVOLVING
OPTICS AND LASER:

YAG laser sawing of diamonds, illumination and imaging systems for machine sorting applications, optical design for setting aids, colour measurement of diamonds.

ORGANISATION NAME:

Murdoch University

CHIEF CONTACT PERSON:

Graeme Cole

POSTAL ADDRESS:

**School of M.P.S.
Murdoch University
Murdoch WA 6150**

PHONE: (09) 360 2364

FAX: (09) 360 1711

E-MAIL graeme@alpha.cs.murdoch.edu.au

ONE PARAGRAPH SUMMARY OF ACTIVITIES INVOLVING
OPTICS AND LASER:

Investigations into the fundamental mechanisms of human colour vision. Both experimental and theoretical studies into the overall modelling of colour vision and colour specification.

ORGANISATION NAME:

Physics Department, University of WA

CHIEF CONTACT PERSON:

Assoc. Prof. David Blair

POSTAL ADDRESS:

**University of WA
Nedlands WA 6009**

PHONE: **(09) 380 2736**

FAX: **(09) 380 1014**

E-MAIL **dgb@earwax.pd.uwa.oz.au**

ONE PARAGRAPH SUMMARY OF ACTIVITIES INVOLVING
OPTICS AND LASER:

Development of laser frequency standards and ultra sensitive laser interferometry systems, using diode pumped Nd YAG lasers.

ORGANISATION NAME:

**Communications Division
DSTO**

CHIEF CONTACT PERSON:

Ian Fuss

POSTAL ADDRESS:

**Po Box 1500
SALISBURY SA 5108**

PHONE: (08) 259 6592 FAX: (08) 259 6549

ONE PARAGRAPH SUMMARY OF ACTIVITIES INVOLVING OPTICS
AND LASERS:

Our optical research work is aimed at utilising optical technology for signal processing. Activities include fourier optics, acousto-optics, electro-optics, ultra..... laser technology, statistical optics, quantum optics, nonlinear optics and optical interaactiaons with condensed matter.

ORGANISATION NAME:

Lions Eye Institute and The Excimer Laser Company

CHIEF CONTACT PERSON:

Paul van Saarloos

POSTAL ADDRESS:

**Lions Eye Institute
2 Verdum St
NEDLANDS WA 6009**

PHONE: (09) 389 2801

FAX: (09) 382 1171

E-MAIL:

ONE PARAGRAPH SUMMARY OF ACTIVITIES INVOLVING
OPTICS AND LASERS:

The division of lasers and bio-electronics of the Lions Eye Institute is involved in the development and application of lasers and computerised image analysis in the medical field (in particular ophthalmology). The main application involves the development of refractive corneal surgery methods using an excimer laser. The other laser applications being developed in this lab include non-invasive assessment and measurement of the eye using laser remote sensing technology.

ORGANISATION NAME:

Sola International Holdings Research Centre

CHIEF CONTACT PERSON:

Dr Clive H. Burton

POSTAL ADDRESS:

**PO Box 24
MORPHETT VALE SA 5162**

PHONE: (08) 329 0362

FAX: (08) 326 1037

E-MAIL:

ONE PARAGRAPH SUMMARY OF ACTIVITIES INVOLVING
OPTICS AND LASERS:

The design fabrication and qualification by various forms of measurement, many of them optical, of ophthalmic and sunlenses and their means of manufacture which includes formers, moulds, casting and various plastic and glass-working processes. Optics and lasers are used in many measurement technologies including some specifically developed by SOLA to meet its specific and somewhat uncommon needs.

ORGANISATION NAME:

Laserex Technologies Pty Ltd

CHIEF CONTACT PERSON:

Giuseppe Canala

POSTAL ADDRESS:

**Box 177 PO
UNLY SA 5061**

PHONE: (08) 373 1522

FAX: (08) 373 1460

E-MAIL:

ONE PARAGRAPH SUMMARY OF ACTIVITIES INVOLVING
OPTICS AND LASERS:

Laserex (please summarise brochure which was included with survey)

ORGANISATION NAME:

Scan Optics Pty Ltd

CHIEF CONTACT PERSON:

Dr Rod Watkins

POSTAL ADDRESS:

**Science Park Adelaide
BEDFORD PARK SA 5042**

PHONE: (08) 201 7600

FAX: (08) 201 7601

E-MAIL:

ONE PARAGRAPH SUMMARY OF ACTIVITIES INVOLVING
OPTICS AND LASERS:

Manufacture of operating microscopes and surgical lights for eye surgery in geographically remote areas.

ORGANISATION NAME:

Defence Quality Assurance Organisation (SA)

CHIEF CONTACT PERSON:

Mr J.F. Tanner

POSTAL ADDRESS:

**Bldg. 198
Keswick Barracks
KESWICK SA 5035**

PHONE: (08) 305 6435

FAX: (08) 305 6109

E-MAIL:

ONE PARAGRAPH SUMMARY OF ACTIVITIES INVOLVING
OPTICS AND LASERS:

On behalf of the Department of Defence, provide quality assurance service during the procurement, design, manufacture, repair and overhaul of defence optical and laser equipment.

ORGANISATION NAME:

AWA Defence Ind.

CHIEF CONTACT PERSON:

Peter Whitteron

POSTAL ADDRESS:

**2-6 Ardtornish St
Holden Hill SA 5088**

PHONE: (08) 266 0666

FAX: (08) 266 0667

E-MAIL:

ONE PARAGRAPH SUMMARY OF ACTIVITIES INVOLVING
OPTICS AND LASERS:

I am the supervisor of the precision optical manufacturing and assembly areas. Included are a number of laser rangefinding systems.

ORGANISATION NAME:

Laser Systems Australia Pty Ltd

CHIEF CONTACT PERSON:

Brian A. See

POSTAL ADDRESS:

**7 Lyn Court
Wynn Vale SA 5127**

PHONE: **(08) 289 3763** FAX:

E-MAIL:

ONE PARAGRAPH SUMMARY OF ACTIVITIES INVOLVING
OPTICS AND LASERS:

**Design of Laser Systems/Optical Systems. Solid State Lasers for
industrial, medical and scientific applications.**

Laser Diode optics, design and development.