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CURRICULUM VITAE

Simon Gerard Greener

*Trading as
The SpatialDB Advisor
ABN 90 970 658 939*



SHORT WORK BIOGRAPHY

Simon Greener has many years of IT/Spatial experience, including, but not limited to:

- Designing and Developing Databases and Applications;
- Researching geospatial solutions at Telstra (research created Censis's Spatial division);
- Conducting GIS research at University of Tasmania;
- Designing technical solutions at Salamanca Software:
 - Including designing first White/Yellow Pages web database and application for Telstra;
 - Data collation and deployment via navigation solutions.
- Designing and implementing technical architectures with Geographic Business Systems (GBS);
- GIS Manager at Forestry Tasmania (successful integrating spatial into new and existing business systems and processes);
- 10 years as an independent geospatial consultant (current) working with many and varied companies and agencies, interviewing users, analysing business requirements, designing and implementing solutions at all application tiers from data to client.

He has a proven and recognised track record sustainably integrating spatial data and processing into existing and new business and enterprise systems. His knowledge of spatial data is very extensive and extends from capture at source, through processing, and application to specific business problems.

His blogging and free software available at www.spatialdbadvisor.com is internationally recognised for its usefulness and openness.

PROFESSIONAL SKILLS AND AREAS OF EXPERTISE

- GIS Management
- Project Management
- User Requirements Gathering and Writing.
- Spatial Solutions Architecture
- Integration of Spatial and Business Systems
- Capture and management of high quality spatial data
- Spatial Database Design and Management
- Spatial Algorithm Design and Programming
- Analysis and Review of Solutions Designs
- Tender Response Writing and Review
- Audit and Review Quality Standards for (Spatial) Data Management and Processing
- Design and Build Spatially Enabled Data Marts and ETL processes
- FME Workspace Construction

INDUSTRY QUALIFICATIONS

- Oracle 10gR2 SQL Certified Professional, May 2007
- Oracle 10gR2 DBA Certified Associate, August 2007

- FME Certified Professional (in process), July 2013.
- Member, Australian Computer Society.

INDUSTRY AWARDS

“2011 Oracle Spatial Excellence Award for Education and Research”, Awarded by the Oracle Spatial Product Development group, Oracle Corporate, Washington DC, May 2011

ACADEMIC QUALIFICATIONS

- Graduate Certificate in Database Design and Management (2009)
- Certificate IV in Project Management, April 1999
- Graduate Diploma in Computer Science (University of Tasmania) (1986)
(IBM Database prize for best final year database student.)
- Bachelor of Surveying (University of Newcastle) (1982), Honours Class 1 (prizes for best student).

PROFESSIONAL EXPERIENCE / EMPLOYMENT HISTORY

Positions Held

- Independent geo-spatial solutions architect specialising in database implementations (Sept 2005-Current).
- GIS Manager, Forestry Tasmania (1997-2005).
- Technical Specialist, Geographic Business Systems Pty Ltd (1996-97).
- Director, Technical Solutions, Salamanca Software Pty Ltd (1994-96).
- Consultant GIS Analyst, Programmer, GIS instructor and Research Fellow, Centre for Spatial Information Studies, University of Tasmania (1992-94).
- Senior Research Scientist, Telecom Research Laboratories, GIS Group on GIS research, development and application for telecommunication needs (1988-90).
- Honorary Research Associate in the School of Surveying, University of Tasmania (1989-1990).
- Computer Systems Officer in Information Technology Group, Telecom, specifying, programming and testing of commercial database software (1986-1988).
- Private consultant (1985-1986).
- Part-time Lecturer, School of Surveying, University of Tasmania (1983-84).
- General and engineering surveying experience (1979-82).

SUMMARY OF RELEVANT EXPERIENCE AND PROJECTS

Geographic Information Systems, Databases, General IT and Consulting

- Second contract at NBN Co working on the Enterprise Location Database System (ELMS). Work included: implementing advanced spatial algorithm for defining center of road frontage of CAD property; data defect analysis and remediation (created data defect data framework for cross-database deployment); Continued to work on designed partitioning and loading framework for ingesting quarterly PSMA spatial data (Cad, Transport, Administration Boundaries, Postcode, Features of Interest); (November 2015 through June 2016)
- Analysed Oracle Spatial 12c database performance against PostGIS and a third party spatial type for Oracle. Produced report and gave presentations in Washington DC, and San Francisco, CA.
- Designed and implemented *data synchronization framework* and code (PL/SQL) to ensure pairs of Materialized Views/Tables are kept perfectly synchronized (160+ pairs) for Powerlink Pty Ltd in Queensland.

- Designed and implemented *spatial data quality analysis, correction and reporting system* (PL/SQL) for Powerlink Pty Ltd in Queensland.
- Implemented interface between spatial web services and an Oracle database to load externally created boundaries, conduct querying (PL/SQL) and return result sets (US Company).
- Worked as Spatial Domain Expert on National Broadband Network Co's Enterprise Location Management System (ELMS): Analysed ELMS database to align with Corporation's understanding of Location within the Enterprise; walked redesign through the business to gain approval; logically and physically re-designed database (SQL Developer Data Manager); designed and implemented tools (PL/SQL) to migrate database from development to production; designed and implemented structures for managing the temporal nature of ELMS objects; implemented new, and tuned existing, PLSQL functions supporting Java web services (included spatial query construction and optimisation); designed partitioning and loading framework for ingesting quarterly PSMA spatial data (Cad, Transport, Administration Boundaries, Postcode, Features of Interest); (July 2014 through March 2015)
- Proposed to Sparx Systems an approach to defining logical spatial data objects within its flagship Enterprise Architect product. Proposal has been accepted and is being implemented. Proposal will give spatial (specifically ESRI GeoDatabase designers) and IT architecture teams a common language and approach to building database and enterprise solutions.
- Co-authored book with Dr Siva Ravada (Senior Director of Development, Oracle Spatial & Graph and MapViewer, Server Technologies) called "*Applying and Extending Oracle Spatial*", PACKT publishing, September 2013.
- Created prototype system for RP Data Pty Ltd, Brisbane, as part of a 4 week Proof of Concept; deliverable included risk assessment and analysis of alternate approaches (August 2013).
- Provided High Level Architectural Design to RP Data Pty Ltd in Brisbane to integrate GeoServer/OpenLayers/PostgreSQL/PostGIS/Google Maps Business API spatial components into their existing RESTful web services architecture (July 2013).
- Designed and delivered Oracle database to manage Brisbane City Council's Duct and Fibre Assets (paths and pits were entities with spatial descriptions) (April – June 2013).
- Reviewed and improved the design of the Australian Bureau of Statistics' new Australian Standard Geography Standard 2011 (ASGS) data model in areas not limited to its simplicity, quality, constraints, efficiency and effectiveness, December 2012.
- Implemented auditable process for Powerlink that automatically calculates the area subject to vegetation clearance under transmission lines as data refreshed from SAP (July 2012).
- Provided services to Mid Coast Water as they migrated their AutoDesk Topobase application from Oracle 10gr2 Enterprise Edition + Spatial database to 11gR2 Standard Edition + Locator. This included removal of all Enterprise Spatial features and processing. The consulting also included advise on the migration of their existing asset management system to Assetic's asset management system and its integration with the spatial database.
- Review migration of Murray Darling Basin Authority's Oracle environment to SQL Server. Including analysis of the integration, diagnosis of any potential problems, recommendation of solutions for problems via a short report.
- Provision of spatial database consulting services to Hume City Council.
- Postgresql/PostGIS database design, and programming of gas pipelines for GeoSynergy, GIS consulting spatial information environments, Queensland.
- Design and implementation of Postgresql/PostGIS based vector to raster data gridding and interpolation system for an agricultural company in the USA. The system interpolates/spreads variables observed at sample points across the fields of a farm. Included FME work.
- Provision of spatial database consulting services to Exact Earth Ltd, Canada.

- Migrated supporter, political etc data into CiviCRM for Melbourne-based not-for-profit group. This included geocoding 20,000+ supporters and politicians addresses and assignment of electorates to supporters.
- Analyzed business and functional requirements of a not-for-profit group in Melbourne Australia, resulting in a set of recommendations for migration to Joomla/CiviCRM.
- Provided Australian Bureau of Statistics (ABS) with advice and recommendations for the re-modeling of their Master Spatial Database (MSD) in the area of spatial data storage & maintenance.
- Provision of architecture, performance tuning, business systems integration, staff mentoring consulting services for IMMCO, Kakkanad, Cochin, Kerala, India, July 2011.
- Rebuild Oracle Spatial based data export tools for Mid Coast Water, Taree, New South Wales which included provision of education and mentoring to specific Mid Coast Water staff. July 2011. Included FME work.
- Provided performance tuning, data loading, Oracle Workspace Manager programming and advice to Geomatic Technologies in Southbank Melbourne, June 2011.
- Redesigned and implemented bikeway asset management database in Oracle for Brisbane City Council. Included writing linear segmentation package in PL/SQL and the implementation of systems interfaces (eg external asset package, financial system, corporate mapping application etc) via views, dynamic segmentation of SQL analytics, June 2011.
- Implemented road radius check processing for Queensland Gas Corporation (deployed as TSQL functions), May 2011.
- Conducted an impact assessment of a metadata system design for Victorian Department Of Sustainability And Environment's Spatial Information Infrastructure group, April 2011.
- Principal developer for SQL Developer spatial extension "GeoRaptor", March 2010 – present.
- Documented integration of Mid Coast Water's asset management and Topobase GIS database systems specifically its metadata configuration January 2011.
- "Review of Systems, Data Model and Quality Processes" for Queensland Gas Corporation (QGC)'s Spatial Services Group, December 2010.
- Consultancy to ExaMin Pty Ltd (Brisbane) to design a database extensibility framework for their GeoBaseMap field data capture product. August 2010.
- Designed database for Brisbane City Council's Roads Management System tender in conjunction with LisaSoft Pty Ltd, September 2010.
- Produced a "Spatial Database Performance and Configuration Benchmarking Report" for Department of Primary Industries, Victoria, assessing their Return On Investment for their existing Oracle and GeoDatabase database infrastructure in light of the corporate Strategic Information Systems Architecture that is being implemented based on Business Objects, February 2010.
- Consulting to Queensland Gas Corporation (August – October 2009) to integrate ESRI software with SQL Server 2008 corporate database and geospatial applications.
- Consulting to Spatial Tapestry Pty Ltd, providing SQL Server 2008 Spatial loading, processing and integrating Navteq's USA street data with nationwide trucking company's 147 depots for advanced transport optimisation.
- Identification of pre-laid water meters for Mid Coast Water contributing to the saving of or \$100,000 in costs.
- Consulting to Victorian Ambulance advising how to construct an enterprise spatial data and application infrastructure, May 2009.

- Technical analysis and review of the Notification and Editing System (NES) for Department Sustainability and Environment, Victoria, March-April 2009.
 - Developed PL/SQL packages to integrate Mid Coast Water's asset management and Topobase GIS database systems November 2008 – February 2009.
 - Development of financial reports (Oracle SQL) for Department of Treasury and Finance, Hobart. June & October 2008, April & June 2010.
 - Solved database migration (Oracle 9i to 10g) problems for Logica, Box Hill, Melbourne, Australia and provided advice on solutions architecture (August 2008).
 - Authored numerous financial reports for Tasmanian Department of Treasury and Finance (June – July 2008).
 - Designed and implemented an automated “zone of influence” layer that recomputes based on spatial edits to Mid Coast Water's Sewer network (June 2008).
 - Two days consulting at Department of Primary Industries and Water, Hobart, executing miscellaneous spatial tasks, May 2008.
 - Performance tuned a cellular mobile phone network processing for a US Cellular mobile phone company, May 2008.
 - Performance tuned a long-running PL/SQL process for Tweed Shire Council in northern New South Wales, May 2008.
 - Wrote a shapefile exporter in Java and successfully deployed it within the Oracle 10g database JVM, May 2008.
 - Created reports in Oracle's Application Express (APEX) that analyzed the spatial and attribute data quality of a sewer network for Mid Coast Water, NSW, April 2008.
 - Wrote Business Requirements Specification document for Australia Post's PostMaster R2 Enterprise GIS project, February – March 2008.
 - Assessed value of purchasing a certain, expensive, vendor geospatial software product to meet business needs of Australian Bureau of Statistics' Geography Section resulting in decision not purchase software saving ABS over \$75,000, February 2008. Included FME work.
 - Designed and wrote a Software Requirements Specification document that described the expected behaviour of an interface that integrates 1Spatial's Radius Topology and Spatial Tapestry's SAM and SAE products, January 2008.
 - Beta tested SQL Server 2008 Katmai Spatial, November 2007 to current.
 - Built Data Quality Dashboard using Oracle's Application Express for Mid Coast Water, Forster, NSW, September 2007.
 - One day consultancy brokering a technical agreement on how to integrate ESRI managed spatial data and client/server applications with WebSphere managed business features for GeoScience Victoria, July 2007.
 - Designed and built a new read-only web accessible (de-normalised) distribution database from an existing (normalised) internal editable production database via model transformations and automated replication processes. The database was for GeoScience Australia's Single Point Of Truth (SPOT) Bathymetry data. Canberra, May-June 2007.
 - Provided high-level data management advice to management at the Traffic Management Centre (TMC), Roads Traffic Authority, NSW, May 2007.
- Reviewed tender bid British Geological Service was preparing for GeoScience Victoria request for tender replication, April 2007.

- Conducted pilot of Oracle to Oracle replication at the Traffic Management Centre (TMC), Roads Traffic Authority, NSW, March 2007.
- Investigation on work practices and technology use at DataFlow (a LogicaCMG company) with recommendations on how to improve current Return on Investment (ROI) within current outsource contract, February 2007.
- Integration of Tasmanian Government Valuation System (VALTAX) with Oracle Spatial managed data, April 2007.
- Provided Radius Topology, Oracle and general GIS Management advice to Mid Coast Water, January, 2007.
- Best practice and performance benchmark study on Oracle Spatial use for Department of Primary Industries and Water, Tasmania, December 2006.
- Spatially enabled data warehouse for Metropolitan Ambulance Server (MAS), Victoria.
- GIS Strategy, Department of Primary Industries, Water and Environment, Hobart, Tasmania.
- Provided independent advice to Laser-Scan and ESRI Ireland for the development of a proposed web mapping and data access portal for the Ordnance Survey of Northern Ireland.
- Research and Development services on Radius Topology and Radius Studio for Laser-Scan, Cambridge UK, May – August 2006.
- Consultant on spatially enabling Oracle Data Warehouse at Metropolitan Ambulance Service, Manningham, Melbourne Victoria, May 2006.
- Conducted “Best Practice” benchmark study on Oracle Spatial use for Hume City Council, Victoria.
- Brokering agent for meeting of Manifold Inc and Oracle Spatial software development teams, 2005.
- Consulted on implementation of Laser-Scan’s Radius Topology products at: Department of Planning and Infrastructure, Northern Territory (Dec 2005); Forestry Tasmania (February 2006), Mid Coast Water (Dec 2005 continuing), Barwon Water (Geelong, Victoria March 2006); Department of Emergency Services (Brisbane, Queensland, April-May 2006);
- Wrote Radius Topology training courses for Open Spatial Pty Ltd, Australia.
- Internet mapping service architect for IntraGIS Systems IntraGIS IMS product 2005, 2006.
- Experienced with Oracle Spatial (object) since 1997. Versions 8i through 10g.
- Chief designer (database and applications) and business owner of Forestry Tasmania GIS applications:
 - ✓ GIS Strategy – framework for 20 year overhaul of GIS at Forestry Tasmania.
 - ✓ GeoPost (a data driven GPS to Oracle Spatial transfer tool used by 50+ people),
 - ✓ MapComposer (340 online Intranet/Internet plot request and production system) – uses specific data model designed and stored in Oracle with full access and use logging; uses an Oracle table as a simple FIFO queue with XML description of the plot request.,
 - ✓ MapOnline (based on ArcIMS with SVG integration),
 - ✓ PlanAnnotator - 200+ user system for drawing and editing SVG-based standardised "graphics" onto corporate (MapComposer) plans. Designed data model and database, wrote custom triggers to synchronise CLOB representations of SVG held in one column with an Sdo_Geometry representation in another.
 - ✓ Blueprint-based Database Design and Metadata system with "web" front end for visualising data and system metadata,
 - ✓ GIS Dataset Register (a corporate location – Oracle database 10g- for holding all FT data and application metadata with associated application),
 - ✓ Spatially enabling business systems include statistical inventory (Plot Location Tool), Forest

Operations Database (FOD), Property Rights, Management Decision Classification (MDC) all held in Oracle database 10g,

✓ Numerous applications for simple point datasets (stored in Oracle Spatial) using Oracle's WebDB and HTMLDB products,

✓ Reporting systems for creating statistics on application use from Oracle-based GIS system logs.

- Consultant to Road Traffic Authority of NSW: prepared and wrote functional and technical specifications for ArcView2 based geocoding software.
- Consultant to Telstra's Spatial Decision Systems (now SENSIS): prepared and co-authored functional specifications for software for geocoding their White and Yellow pages address data; designed spatial database for SENSIS's White Pages and Yellow Pages online mapping application (see www.whitepages.com.au).
- Involved in beta-testing of ESRI's new MapObjects OCX/OLE Automation objects.
- Designer of an ArcView 3.0 (Sybase) based Internet Mapping Server for a Melbourne based client specialising in Internet-based Real Estate sales.
- Member of team that conducted a User Needs study for Maroochy Shire Council to specify its business requirements for spatial data entry and enquiry.
- Designed advanced ARC/INFO macros (AML) for Telstra GTA and supervised their development by Salamanca Software Pty Ltd staff.
- Managed staff in production of attributed road centreline data captured from photogrammetry using geocoded UBD street index data.
- Designed and implemented stage one of a geocoding package which was used by one of Salamanca Software's clients.
- Designed and implemented a PC-ARC/INFO based mapping system for Telecom Mobiles.
- Involved in preparing and presenting CenSIS' bid to be the organisation responsible for the implementation and "Australianisation" of the US Spatial Data Transfer Standard (SDTS).
- Designed and implemented MapBasic application programs and utilities for Telecom Australia clients.
- Involved in a number of projects demonstrating and researching the use of Geographic Information Systems within Telecom: identifying, sourcing and ordering data, then its preparation, loading and analysis, overseeing staff.
- Responsible for recommending the GIS software/hardware platform used by the Telstra research team; advised other Telecom areas on suitable GIS and mapping technology.
- Involved in evaluating PC based GIS and mapping systems in order to match functionality to user needs.
- Provided input into Location Subject Data Base component of Telecom's Corporate Data Model, helping to assess and resolve some of the issues arising from the introduction of GIS technology into Telecom.
- Experience all facets of restructuring (parsing) and geocoding unstructured address (text) data.

Project Management

- Project managed numerous software projects at Forestry Tasmania (some have been described by IT professionals as the best specified and managed projects in their experience - which totals 60+ years).
- Holder of internationally recognised Certificate IV in Project Management, awarded through Australian Institute of Project Management (APIM).

- Familiar with, and used, Rational Unified Process, Agile, APT Level 3 IT Project Management Methodologies. Constructed Project Plans (using Microsoft Project v4.1) to support implementation of IT projects.
- Scoping and specifying projects for replicating and publishing spatial data for Geographic Data Victoria.
- Joint Project Manager and Technical Team Leader for an ArcView 3.0 (Sybase) based Internet Mapping Server for a Melbourne based client specialising in Internet-based Real Estate sales.
- Technical project team leader for Maroochy Shire Council's SDE-based Spatial Server implementation.
- Designed and managed team re-developing Salamanca Software's (later Geographic Business System - GBS) ImageEngine product.

Spatial Database Engine (ArcSDE)

- Research and Development consultant on ArcSDE (ESRI) integration for Laser-Scan, UK's Radius Studio product.
- Architect, technical designer and consultant to Forestry Tasmania internal business systems which use/used ArcSDE and Oracle Spatial;
- Designer and team member for Geographic Data Victoria's State Digital Map Base – Cadastral (SDMB-C) replication and (Internet) publication project.
- Architectural adviser for current DELM Land Information Integration project (LIST).
- Developer of a prototype Intranet/Internet Enquiry System for Department of Mineral Resources, NSW as part of the Titles Administration System (TAS2) currently being project managed by Geographic Business Systems.
- Chief designer for Maroochy Shire Council SDE-based Spatial Server implementation.
- Wrote SDE training materials for SDE Programming and Systems Administration courses for ESRI USA.
- Coordinated design and development of Salamanca Software's (now Geometry Pty Ltd) VAR products:
 - ✓ Image Engine library, and
 - ✓ Chief designer of the spatial aspects (spatial data types and topological relationships within an OO modelling environment) of GeoCASE (now Blueprint): the world's first and only fully-spatially-enabled data modelling CASE tool;
- Beta tested revisions 2.0, 2.1, 2.1.1, 3.0 and 8.x versions of ESRI USA's ArcSDE.
- Responsible for demonstrating ESRI's Spatial Database Engine's capabilities as an Internet server to Telstra's Spatial Decision Systems (SDS) group which resulted in a sale of the product to power their first WhitePages/YellowPages web mapping application.

Designed Telstra WhitePages and YellowPages spatial database; coordinated integration of Salamanca Software's Image Engine product within Telstra SDS's WWW system.

Provide architectural input to Computer Science Corporation (CSC) Australia Pty Ltd who are

contracted to provide SDS with the Information Technology skills required to implement the actual WWW page.

- Designed and implemented an interface between MosaiX and the SDE.
- Helped prepare SDE responses to many tenders including:
 - Finnish and Swedish Hydrographic Survey (successful)
 - Australian Water Technology NSW,
 - Maroochy Shire Council (successful),
 - Telecom Mobile's Australia-wide, "real-time" geographic "HelpDesk" (successful but funding removed by Telecom management before implementation),
 - Queensland Lands Department Basic Land Information Network (BLIN) RFI.
- Prepared a benchmark for Australian navy contractors to demonstrate SDE performance capabilities for storage, search and retrieval of hydrographic point data.
- Undertook a number of private consultancy contracts including designing and implementing: a GIS pilot study for the Dandenong Valley Authority; a computerised Tree Inventory system for Hobart City Council; and list management software for private charities (1985-86)

Training

- Wrote "Introduction to Radius Topology" and "Advanced Radius Topology" courses.
- Guest lecturer at University of Tasmania in Database Theory for final year Geomatics students, 2003-2005.
- Written lecture materials for CENSIS students, University of Tasmania.
- Organised, and managed the creation of numerous courses on business systems I have developed at Forestry Tasmania.
- Under contract, I wrote first Introduction to ArcSDE course material for ESRI Inc.
- Qualified **ArcSDE** trainer for ESRI USA having conducted courses both in Australia, USA (on behalf of ESRI USA) and all over the world (USA, Singapore, Italy).
- Conducted **Introduction to ARC/INFO** (version 6.1) courses for Australian Institute of Spatial Information Sciences and Technology (AISIST) where I was primarily responsible for the design of the GIS curriculum, writing course material, and involved in actual presentation of courses to Indonesian students (1994/5).
- Designed and conducted GIS laboratory classes for the **Introduction to GIS** course at the University of Tasmania.
- Designed and presented to CensIS clients training courses titled:
 - “Introduction to UNIX”,
 - “Introduction to Oracle”,
 - “Oracle and ARC/INFO”,
 - “Introduction to Spatial DataBase Engine”.

General IT

- Oracle user (with DBA skills) since 1988.
- Systems architecture and design for numerous Salamanca Software customers and constructs.
- Provision of Oracle DBA skills to GBS/ESRI offices throughout Australia to support SDE related work.

- Experienced in using and administering Microsoft SQL*Server version 6.5 under Windows NT Server version 4.0.
- Experienced in specifying, programming, documenting, testing, implementing & maintaining Computer Systems; in particular:
- Maintaining and tuning previous batch oriented CODASYL network database system,
- Producing logical database design using Entity Relationship Modelling methodology
- Generation of relational model and physical design for ADABAS;
- Writing program technical specifications from user functional specification;
- Database Administrator functions for project;
- Implemented an Asset register system using 4GL software.
- Helped design, implement and interface between two operational fault recording systems.
- Method/1 (SDLC Methodology).
- Prepared and presented internal (Telstra) tutorials on
Disk Migration - Efficient File Design and;
Data Manager Data Dictionary - Basic Concepts;

Publications & Articles

Greener, S.G., "[Scalable Server-side In-database Geoprocessing](#)", Online article for Directions Magazine, August 31st, 2006.

Greener, S.G., "[Inaugural Victorian Oracle Spatial User Group Forum, Melbourne, Victoria, Australia](#)", Online article for Directions Magazine, March 2nd, 2006.

Greener, S.G., "[Oracle Spatial User Group Meeting, Brisbane, 9th December 2005](#)", Online article for Directions Magazine, January 2nd 2006.

Greener, S.G., "Topology for Trees", pp 12-13, Issue 19, Position Magazine, October-November 2005.

Greener, S.G., "[Interview: Chris Bellman, Past President of Spatial Sciences Institute](#)", Online article for Directions Magazine, October 14th, 2005.

Greener, S.G., "[Killer Data - LiDAR](#)", Part 2 of Editorial, Directions Magazine, October 12th 2005.

Greener, S.G., "[Editorial: Killer Data – geoTorrent.org, Google Maps/DigitalGlobe and LiDAR – Part 1](#)", Online article for Directions Magazine, October 11th 2005.

Greener, S.G., "[Killer Apps - Silver Bullets Made From Smart Tags](#)", Online article for Directions Magazine, October 3rd 2005.

Greener, S.G., September 2005, "[GITA Australia -- One man's view](#)", Online Article for Directions Magazine, September 4th 2005.

Greener, S.G., "[Oracle Spatial User Group Meets in Australia](#)", Online article for Directions Magazine, September 4th 2005.

Greener, S.G., "[Insularity and Progress](#)", Guest editorial (Soapbox), Earth Observation Magazine, December 2004.

Greener, S.G., "Improving business efficiencies and profitability by implementing cost effective GIS solutions", speaker at "GIS 2005 - GIS for Environmental Science" conference in Sydney, May 2005,

Greener, S.G., "Radius Topology & Strategic GIS @ Forestry Tasmania", presentation to Data Quality Pre-Conference Workshop, Location Intelligence 2005 Conference, Philadelphia, May 2005.

Greener, S., Harwin, S. (2003), "Scaleable vector graphics for application development – experiences at Forestry Tasmania", Spatial Sciences 2003 Conference paper, Canberra, ACT, 22-26 September 2003.

Cavill, M. and Greener, S. (1988) Introducing Geographic Information Systems Technology – Concepts, Approval and Implementation. *Proceedings of the 18th Annual Conference of the Australasian Urban and Regional Information Systems Association, URPIS 18*. Sydney, p 323-330.

Newton, P.W., Zwart, P., Cavill, M., Crawford, J.R., Edney, P. and Greener, S. (1990) GIS for Telecommunications Planning and Management. In L. Worrel (ed) *Geographic Information Systems: Developments and Applications*, Bellhaven Press, London.

Bellman, C., Edney, P. and Greener, S. (1989..) Report on Toorak and MKP Pilot Projects. Telecom Research Laboratories' Branch Paper.

Greener, S. (1990) Using ABS Census data at the Exchange Level. *Telecom News*, Melbourne.

Zwart, P. et al (1990..) PC GIS Evaluation. Telecom Research Laboratories' Branch Paper.

MAJOR PRESENTATIONS AND SEMINARS

Greener, S.G., Soustal, B., "Automated Layer Management - Experiences At Mid Coast Water", Oracle Spatial Forum, Sydney, 28 August 2008.

Greener, S.G., "Gridding vs Simplification in Extracting Performance from High Density Data", Oracle Spatial Forum, Sydney, 28 August 2008.

Greener, S.G., Soustal, B., "Data Quality Dashboard: Leveraging APEX with Oracle Locator to improve Business Decision Making", Oracle Spatial Forum, Brisbane, 6th August 2007.

Greener, S.G., Evans, N., "Enterprise-wide Collection, Management and Distribution of Bathymetry data within Geoscience Australia", Oracle Spatial Forum, Brisbane, 6th August 2007.

Greener, S.G., Keene, J., "Tips and Tricks – PL/SQL, Locator & Application Express (Apex)", Oracle Spatial Forum, Brisbane, 6th August 2007.

Greener, S.G., "Oracle Spatial - inside the Square", Oracle Spatial Victorian Forum, April 2007.

Greener, S.G., "Keeping it simple: Model-Driven Spatial Databases", Presentation to Oracle Spatial SIG, London, September 11th 2006.

Greener, S.G., "Reflections on Delivering ROI at Customer Sites", Presentation at Laser-Scan Annual User Conference, June 28th 2006.

Greener, S.G., "Performance Tuning and Oracle Spatial Process: experience at a customer site", unpublished presentation to Oracle Spatial User Group, Hobart, March 15th 2006.

Greener, S.G. and Stone, M.G. (2004) "GIS Strategy". Forestry Tasmania Internal Report, 45 pp.

Greener, S.G., "Oracle Spatial @ Forestry Tasmania (from HHEncode to 10g)", Presentation to first Oracle Spatial User Group Meeting in Sydney, September 2005.

Greener, S. (1996-2004) Numerous presentations at Forestry Tasmania on business systems, reviews and processes.

Greener, S., (2000) "From the field to the GIS", Presentation on the use of GeoCASE in the management of GPS based transactions. Local Tasmania ESRI User Group meeting.

Greener, S., (1999) "Enterprise GIS at FT", OZRI 13.

Greener, S. (1996) Chairman and main presenter at "GIS and the World Wide Web" at AURISA 96, Hobart, 1996.

Greener, S. and Zwart, P. (1994) "Telecommunications and Spatial Databases – Some Performance Figures and Scenarios". Tasmanian Chapter of AURISA's Hobart conference *Quality Systems: The Path to Quality Decisions*.

Greener, S. (1993) "Cursors without Curses". Tasmanian ARC/INFO Users Group.

Greener, S. (1992) "A Framework for Low Cost GIS (Rural Road Numbering)". Given at the Municipal Council's Association of Tasmania Seminar "*Working Together with GIS*", 30th November 1992.

Greener, S. (1992) "GIS and Demographics". CenSIS occasional talk given on principles behind use of demographic data and techniques within GIS and desktop mapping systems.

Greener, S. and Bellman, C. (1990) Geographic Information Systems Technology. TransPlan National Workshop, Adelaide.

Greener, S. (1989) "GIS Marketing Applications". Given to Regional Marketing Managers and Product Planning and Development Divisional Centre Managers, Network and Customer Services Marketing Conference. Melbourne.

RELATED SOFTWARE SKILLS

Software Package	Skill level	Last used	General comments
Programming			
Java	Skilled	Current	Sun JDK, Oracle JDeveloper
C	Excellent	Current	Sun, DG, .Microsoft C++
Visual Basic 6.0	Skilled	Current	
PL/SQL	Excellent	Current	Oracle
Turbo Pascal	Historical	1990	IBM PC (vns 3 thru 6.0)
Fortran	Historical	1985	Prime - University of Tasmania
Cobol	Historical	1988	PC, Honeywell & Fujitsu
Natural vn 1.3	Good	1988	Fujitsu mainframe
Database			
Interbase	Historical	1996	Embedded SQL coding, DG workstations
ORACLE	Excellent	Current	Versions 7,8,9, 10 and 11; DBA, SQL coding
MicroSoft SQL*Server	Good	Current	Version s 6 - 2008; DBA
MySQL	Good	Current	
PostGIS	Good	Current	Versions 7 – 8.3
Sybase	Limited	Current	Solaris
Access	Skilled	2005	Windows
dBase II/III/IV	Skilled	Current	IBM PC
KnowlegeMan 2.01	Historical	1992	IBM PC
Adabas	Historical	1987	Fujitsu
IDS/2	Historical	1986	Honeywell mainframes
Data Dictionary/CASE			
DataManager	Histo	1987	Fujitsu mainframe
Predict	His	1987	Fujitsu mainframe
GeoCASE/Blueprint	Excellent	Current	Windows
Designer/2000	Introductory	Current	
ER Win	Good	Current	Windows
DBDesigner	Limited	Current	Windows
Project Management			
Microsoft Project	Good	Current	Version up to 98
DotProject	Skilled	Current	

RELATED SOFTWARE SKILLS (CONT)

Geographic Information Systems & Mapping Systems			
IntraGIS	Excellent	Current	Versions up to 5.1.
ARC/INFO	Excellent	Current	Prime, PC, VAX, Solaris and Windows
ArcGIS	Good	8.3	
ArcView	Excellent	Current	3.2 - Excellent avenue skills
Manifold GIS	Excellent	Current	Versions 5 – 7
Intergraph GeoMedia	Excellent	Current	Versions 5 – 6
MapInfo	Good	Current	Versions up to 9.
Arc Spatial Database Engine (ArcSDE)	Excellent	9.2	DG, Solaris, DEC Alpha, Windows Server
IDRISI	Excellent	1994	DOS-based raster GIS
Atlas*GIS	Historical	1991	IBM PC Vector-based GIS
LAMM	Hist	1991	PC-based Mapping Package
TIGRIS	Historical	1990	
Spans	His	1991	OS/2-based Quad-tree GIS
CData86/Supermap	Historical	1993	PC Census mapping package
Graphical User Interfaces and Application Development Environments			
MosaiX / Formida	Historical	1995	
Visual Basic	Skilled	Current	
Visual C++	Introductory	Current	
MapObjects	Introductory	Current	
Jdeveloper	Skilled	Current	
Operating Systems and Operating Environments			
MS-DOS	Excellent	Current	IBM PC and compatibles
UNIX/LINUX	Excellent	Current	Sun, DEC, DG, HP workstations
Microsoft Windows	Excellent	Current	
Apple Macintosh	Very Good	Current	