



SEA-JTP MAGAZINE



ENGINEERS
AUSTRALIA
South Australia Division

SEA-JTP Upcoming Presentations

Wednesday, 25 August 2010 (Engineers Australia)

Salesforce.com

Stefan Wagner

Software Engineer/Architect, Technical Director and Owner, Bayer Pty Ltd

Thursday, 30 September 2010 (Engineers Australia)

Daniel Draper

Director & Founder at CodeFire, CEO at NetFox

Thursday, 28 October 2010 (Engineers Australia)

Steven Clark

Lawyer, Biologist, Educationalist, IT Professional and now PhD Candidate and Tutor,
University of South Australia

Thursday, 25 November 2010 (Engineers Australia)

Enterprise Architecture versus Solution Architecture

Glenn Smyth

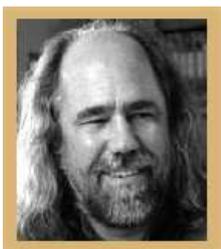
Principal Architect and Director, Fragile To Agile (Asia/Pacific) Pty Ltd



<http://www.jenniferj.net>

IEEE 1471 – Software Architecture

It has long been recognized that “architecture” has a strong influence over the life cycle of a system. However, until relatively recently, hardware issues have tended to dominate architectural thinking, and software aspect, when considered at all, were often the first to be compromised under the pressures of development. IEEE 1471 was created to provide a basis for thinking about the architecture of software-intensive systems. [Read more...](#)



Enterprise and Technical Architecture Podcast

By our staff podcaster, Grady Booch

[Hear more...](#)

The Internet is the world's largest library. It's just that all the books are on the floor. John Allen Paulos

The Software Engineer/Architect and the Enterprise Architect

Spot the difference!

Software Engineer/Architect - Stefan Wagner



With a knowledge pool of more than 25 years experience, Stefan has worked in a considerable number of international and national projects, exposing himself to many key areas such as telecommunication, environment, education, oil and gas.

In recent years, Stefan has focused more on domains such as law enforcement and construction. His professional focus evolves around Software Architecture, Enterprise Architecture, Business Process Management (BPM), Domain Driven Design and Service Oriented Architecture (SOA) and Cloud Computing (SaaS, PaaS) (<http://www.salesforce.com>).

Stefan's interest in computer technology started early. His first computer was a Sinclair ZX81 (<http://en.wikipedia.org/wiki/ZX81>), which he had to solder together by himself in the age of 15. Things were quite 'Basic' in those days. Stefan expanded on his knowledge and studied information technology in Germany, at the University Haagen.

[Read more...](#)

Enterprise Architect – Glenn Smyth

Glenn is celebrating his twenty-second year in the IT industry, exactly half his life so far. At various times he has worked in nearly all areas of IT from programming and Database Administration through Program Management and IT architecture before settling as an Enterprise Architect. He has spent the last 11 years specializing in CBD and then SOA architectures.



Glenn is director and principal architect at Fragile to Agile, a dedicated Enterprise Architecture practice launched in 2009, whose clients include Hills Industries, Members Equity Bank, Internode and BAE Systems Australia. Prior to this Glenn was Chief Architect at (Bendigo and) Adelaide bank and preceding that Chief Architect on the ATO side for the ATOs change program, a billion dollar refresh of all ATO systems. His other recent roles include sub-contracting to CSC to develop the architecture for the new Patient Administration System implementation at SA Health and Program Manager and Chief Architect for a A\$80 million full systems refresh at SolMelia in Spain, the third largest hotel chain in the world.

An independent contractor/consultant his whole career before launching Fragile to Agile, with typical Irish wanderlust Glenn has worked at 25 sites on three continents, before finally settling for good in Adelaide.

[Read more...](#)

Getting information off the Internet is like taking a drink from a fire hydrant. Mitch Kapor

Upcoming Conferences

Adelaide

[Enterprise Architecture – John Zachman \(26 August\)](#)

[Sixth Annual ADM Defence Skilling Summit \(16 – 17 September\)](#)

[SA State ACS Conference, 2010 \(21 – 22 October\)](#)

[23rd Australasian Joint Conference on Artificial Intelligence \(7 – 10 December\)](#)

[Australian Software Engineering Conference, 2012 \(proposed\)](#)

Elsewhere in Australia

[International Cyber Resilience Conference \(Perth, 23 – 24 August\)](#)

[SCADA Systems Australia 2010 \(Brisbane, 23 – 25 August\)](#)

[Creative Innovation 2010 \(Melbourne, 8 – 10 September\)](#)

[User Experience Design Masterclass \(Sydney, 13 September\)](#)

[Seventh Annual Young ICT Professionals Conference \(Brisbane, 20 – 21 September\)](#)

[World Computer Congress \(Brisbane, 20 – 23 September\)](#)

[GIS in Mining and Exploration 2010 \(Perth, 21 – 22 September\)](#)

[E-Security for Government 2010 \(Sydney, 21 – 22 September\)](#)

[18th IEEE International Requirements Engineering Conference \(Sydney, 27 September – 1 October\)](#)

[ITmatters 2010 \(Melbourne, 7 – 8 October\)](#)

[23rd IEEE International Symposium on Computer-Based Medical Systems \(Perth, 12 – 15 October\)](#)

[IT Project Management \(Sydney, 26 – 27 October\)](#)

[Lucidity 2010 - IT in Local Government \(Coffs Harbour, 16 – 19 November\)](#)

[IASP-ASPAS Joint Conference on Science and Technology Parks \(Perth, 24 – 26 November\)](#)

[IADIS International Conference on Internet Technologies & Society 2010 \(Perth, 29 November – 1 December\)](#)

[Cloud Computing Australasia 2010 \(Sydney, 30 November – 1 December\)](#)

[2010 secau Security Congress \(Perth, 30 November – 2 December\)](#)

[Asia Pacific Software Engineering Conference \(Sydney, 30 November - 3 December\)](#)

[bwired's free, monthly website strategy seminars \(Melbourne\)](#)



Sarugo and Memory Box



Trevor Glen, Managing Director of
Memory Box Backup Pty Ltd

Sarugo is an Adelaide software company focused on developing software applications that make life easier for everyone: Business or home users.

We knew that protecting treasured memories and hard work needn't be such a bind - so we developed Memory Box.

Memory Box won the *Startup of the Year* at the national iAwards in 2009. It was also awarded an APICTA award in the *Tools and Infrastructure* category in December 2009.

[Read more...](#)

Also!

A 20% discount on Memory Box is available to readers of this newsletter. Simply visit <http://www.memoryboxbackup.com/> and enter the code JTP0710 to get 20% off your first period subscription.

But wait, there's more!

Testers of the latest version of Memory Box are needed. People who are interested in signing up for the beta testing program can do this by visiting <http://www.memoryboxbackup.com/beta>

The Australian Computer Society (SA Branch) Offices have Moved

The new address is 54 King William Street, Kent Town, SA 5067. Telephone: 08 8363 6660.

South Australia – The Leader in Communications

After having dug to a depth of 10 feet last year, Melbourne scientists found traces of copper wire dating back 100 years and came to the conclusion that their ancestors already had a telephone network more than 100 years ago.

Not to be outdone by the Victorians, in the weeks that followed, a Sydney archaeologist dug to a depth of 20 feet, and shortly after, a story published in the Sydney Morning Herald read: "New South Wales archaeologists, finding traces of 130-year-old copper wire, have concluded that their ancestors already had an advanced high-tech communications network 30 years earlier than the Victorians".

One week later The Advertiser reported the following: "After digging as deep as 30 feet in his pasture near Gawler, South Australia, John Brown, a self-taught archaeologist, reported that he found absolutely nothing. John has therefore concluded that 150 years ago,

South Australia had already gone wireless.."

The Engineering Profession, at the Forefront of Technology and Fashion

Fashion Engineering



Dr Janet Cooke Hansen is President and Chief Fashion Engineer of Enlighted Designs, Inc. She founded the business to create her own "dream job" as a light-up clothing designer.

Janet's eclectic designs combine her lifelong interests of fashion, art, and technology. She learned to sew at age 7, and installed miniature lights in her own dollhouse. Over the years, her costume-making hobby began to incorporate electronics, with illuminating results.

Do you need to be a rocket scientist to design clothes like this? Probably not, but it doesn't hurt, either. Janet's formal education includes the following.

- Ph.D. in Applied Mechanics and Engineering Sciences/Bioengineering
- M.S. in Applied Mechanics and Engineering Sciences/Bioengineering,
- B.S. in Engineering. Graduated with High Distinction, Honours in Engineering.

A fascinating video about here can be [found here](#). Examples of her work [are here](#).

And, of course, Fashion Hackers

I'm interested in learning about the intersection between the hacker community and the tech/fashion DIY community. Taking gadgets apart, and stitching them back into garments is the basis for wearable technology; this seems to parallel what hackers do in that they also take things apart, and use them in a different way from their intended purpose.



Alison Lewis is a designer with a passion for fashion, beauty and the digital lifestyle. She holds a graduate degree from Parsons School of Design where she teaches fashion technology and fashion communication. As the electronic and media specialist at Art Guild Inc., she integrates movement, sound, and light into museum and exhibit design. In her spare time, when Alison isn't exploring New York City boutiques, she is the techno-fashionista guru for Verizon FiOS's television show MyHome2.0.

[Read more...](#)



The Rise and Fall of the Waterfall Method

Winston Royce has been exonerated. His case is presented here using stick figure (Use Case Diagram?) animation.

[See more...](#)



Computer Engineering now “Officially” Cool for Girls

It is generally thought that computer games are what attract boys into computer engineering. So how do we attract girls into this profession? Maybe there is an answer!

There’s a new recruit for the engineering profession. It’s Barbie the computer engineer.

It’s easy to chuckle a little at Barbie as computer engineer, but Mattel is serious. The idea was chosen by a vote of Barbie fans, and the voting went viral among women engineers. Mattel did its homework on this one, too. They worked with the National Academy of Engineering and the Society of Women Engineers to hone Barbie’s image. The company wants to make money on it, of course. But it also set out to present engineering to young girls as a cool and creative career. One they should consider.

[Read more...](#)



[Editor’s Note: At a very young age I saw a documentary demonstrating the power of computers by showing how one particular computer could control a number of trains in a large electric train set. An operator would type in a command for a train to get certain wagons and take them to a particular location and the trains would do exactly as instructed! That looked like a fantastic job to me and hence my career in IT. Unfortunately IT never turned out to be quite that much fun!]

Morality and the Software Architect

By our staff reporter, Grady Booch

Michael Armstrong, the former CEO of AT&T, once observed that “the ancient Romans had a tradition: whenever one of their engineers constructed an arch, as the capstone was hoisted into place, the engineer assumed accountability for his work in the most profound way possible: he stood under the arch.”



Contemporary society has replaced the law of gravity with the rule of law—meaning that, today, litigation is the primary mechanism for ensuring that an engineer has some skin in the game. However, legislation cannot enforce a moral code: law-abiding citizens will tend to follow the law anyway (although it might constrain them in subtle ways), while those who care not one whit for the law will do as they please (and develop imaginative ways to actively ignore the law).

[Read more...](#)



On Interrupting a Software Engineer

By an Engineering Mind, Todd Sierer

Look, we all have to deal with interruptions, especially when you’re as smart as me. If you ever feel the need to swing by and ask me a question, you might consider watching this video first.

[See and hear more...](#)

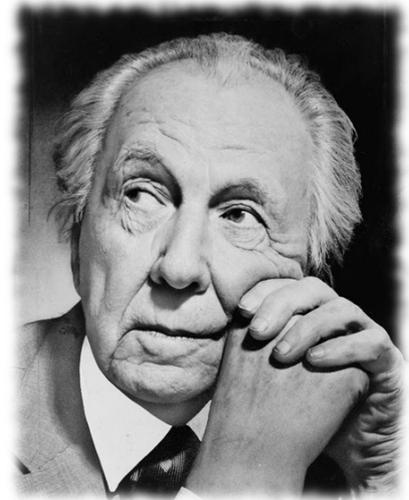
Building Architects

What do they think of members of other professions using 'Architect' in their job title?

Architects Accreditation Council of Australia – Architect Registration

Note the first sentence: *In each State and Territory of Australia it is a legal requirement that any person using the title 'architect' or offering services to the public as an architect, must be registered with the Architects' Board in that jurisdiction.*

[Read more...](#)



[Frank Lloyd Wright](#)

Architects Registration Board (UK) - What we do to regulate use of the title 'architect'

Note that *The name 'architect' is sometimes used in a way that isn't connected to building and design. For example, 'software architect' or 'systems architect' are examples from the computer and IT industry. We take the commonsense view, and accept that no one could be misled into thinking this had something to do with the design and construction of buildings, and we wouldn't take any action in these cases.*

[Read more...](#)

American Institute of Architects – What does the term architect mean to you?

Over the last few weeks numerous publications like the *Washington Post* have run news stories about “architects.” But instead of covering the work of Santiago Calatrava or Antoine Predock, the stories are about politicians or members of the Bush administration, people like outgoing White House adviser Karl Rove, who some have called the “architect” of Bush’s campaign triumphs.

[Read more...](#)

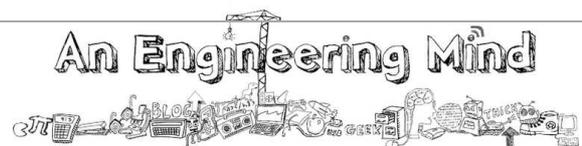
American Institute of Architects – An Architect by Any Other Name

Several years ago when Bill Gates, chair of Microsoft, relinquished his title as chief executive officer, he appointed himself chief software architect instead. Since then, several industries have adopted the term architect. If you're in the insurance industry, you can call yourself a workforce architect. If you're in the electronic industry, you can be a software architect or a systems architect.

[Read more...](#)

The Engineering Academy Awards

By an Engineering Mind, Todd Sierer



Do Engineers like the Oscars? I know I don't. Just when I thought mainstream Hollywood was going to back Star Trek, the best sci-fi film to come out in a couple of years, they completely forget about it in the best picture category. Seriously? You added five new nomination spots for BP and you looked past the rebirth of one of the best franchises...

[See and hear more...](#)