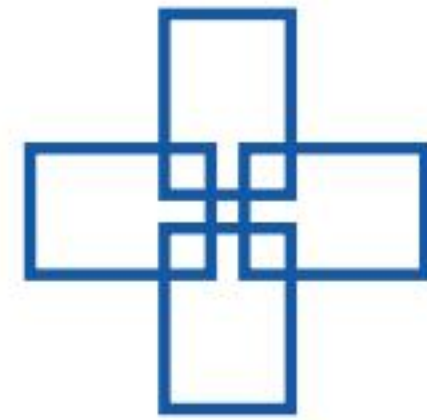


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# THE AUSTRALIAN HOSPITAL ENGINEER

S U P P O R T I N G   H E A L T H   F A C I L I T I E S   M A N A G E M E N T



## A Great Time Had By All – *Full report on page 8*

**Best Member Paper – Mark Hooper, Echuca**

**Charlie Shields – 60 yrs IHEA Membership Recognised**

**Best Non-Member Paper – James DiLiberto, AZZO**



## Adelaide hospital introduces revolutionary water technology set to radically improve patient safety and recovery

***An Australian first in healthcare.*** North Eastern Community Hospital in Adelaide is the first in Australia to introduce ground-breaking technology that will permanently eliminate legionella in their water pipelines, providing patients with the safest water in the country.

The Ecas4 system, developed in Italy, and already widely used throughout Europe, successfully eliminates pathogens such as bacteria, fungi, viruses and mono-cell algae from main and drinking water without the use of toxic chemicals.

Scott Williams, CEO of the North Eastern Community Hospital, says “We are thrilled to be the first hospital in Australia to introduce this technology which means we offer the safest and cleanest water out of any other hospital in Australia”.

Ecas4’s National Business Manager, Simon Crabb, says “*Legionella* is a real risk for hospitals as it is for any building that has a reticulated water system. There’s nothing on the market that will control *Legionella* as well as Ecas4 can”.

Bacteria are naturally present in water and are able to form a three-dimensional structure on the internal surface of pipes called biofilm. Biofilm is a thin layer of organic material where bacteria like legionella can bind and develop.

Williams explains that before using the Ecas4 system their water treatment would flush away the *Legionella*, but it didn't break down the biofilm.

“The difference with this technology is that it actually destroys the biofilm and prevents *Legionella* from building or forming in the pipes in the first place”.

Currently hospitals have to heat their water to more than 70 degrees to eliminate pathogens or bacteria that exist within their water system. Williams says “With this new technology on board we’ll be able to reduce our heating requirements down to domestic levels which has a massive impact on our energy consumption and the ability to reduce our gas bill by a third”.

Ecas4 Australia’s CEO, Tony Amorico, says there are significant opportunities within the healthcare and food industries and has invested in the relocation and expansion of the R&D program. Ecas4 have engaged Dr Sergio Ferro - an Italian electrochemist involved in the formation of the technology. NECH have partnered with the University of South Australia to independently research the project.

Amorico explains that the Ecas4 Anolyte will destroy pathogens including *Escherichia coli*, *Listeria*, *Salmonella*, *Campylobacter* and MRSA ('golden staph') without any form of resistance. He says “The Ecas4 Anolyte solution can be used in nebulisation form to attack pathogens present on surfaces, including equipment, machinery and food. Our long-term goal is to use this technology to sterilise healthcare facilities, waiting areas and hospital rooms”.

Williams says “Our hospital and aged care facility covers a broad spectrum of patients and residents, from newborn babies to the elderly. We have now improved patient safety, particularly for those vulnerable groups”.

“Risk is always evident in healthcare and we aim to remove it wherever we can. The Ecas4 project sets us on a clear path to being able to eliminate that risk of *Legionella* completely”.



## Visual resources

Video: <http://bit.ly/2d06QAK>

Media Library: <http://bit.ly/2dvttxM>

Individual Image:

Scott Williams, North Eastern Community Hospital

Group Image: L-R Tony Amorico, Ecas4;

Scott Williams, NECH;

Erica Donner, University of South Australia;

Sergio Ferro, Ecas4

## Media contacts

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Available for interview :

Scott Williams

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## *An Australian first in healthcare (con'td)*

### **North Eastern Community Hospital & Aged Care Facility**

North Eastern Community Hospital, is a not-for-profit, community owned private hospital and nursing home facility focused on providing quality clinical services to the local community.

Situated in Campbelltown, 10 km north east of the city of Adelaide, South Australia the modern 60 bed hospital specialises in General Surgery, Medical, Obstetrics, Orthopaedics, Laparoscopic Surgery, Gynaecology, Gastroenterology, Dental and Residential Aged Care.

[northeasternhospital.com.au](http://northeasternhospital.com.au)

### **Ecas4**

Ecas4 was founded to provide health structures, in patient departments and accommodation of all kinds, with technologies in the field of bacterial disinfection.

The Ecas4 system eliminates pathogens such as bacteria, fungi, viruses and mono-cell algae, from main and drinking water without the use of toxic chemicals, and, crucially, also eradicates the biofilm that is commonly found in the piping of any material.

A minimal dose of the Ecas4-Anolyte disinfection solution is injected into water pipelines to provide disinfection without altering the potability of the treated water.

The Ecas4-Anolyte is safe for humans and the environment, and ensures clean water (elimination of pathogenic bacteria and especially the bacterium responsible for Legionnaire's disease).

[ecas4.com.au](http://ecas4.com.au)



Engineering for  
Health & Hygiene™

## Ecas4® The most effective and efficient ‘solution’ for removing *Legionella* & biofilm from your water supply

### The problem: the biofilm

The viscous, organic biofilm that builds up within water pipelines protects micro-organisms, creating a source of contamination in the water.

Ecas4-Anolyte solution eliminates *Legionella* from hot water systems by attacking and destroying the viscous biofilm structure of the bacterium *Legionella pneumophila*.

We are experienced in the field of *Legionella* within hospitals and will be pleased to meet with you to discuss the details of our technology.

**A highly efficient, non-toxic disinfection solution that eliminates both pathogens and biofilm.**



### How Ecas4-Anolyte compares to other purification and disinfection systems

SYSTEM	Barrier Effect	Deposit Effect	Disinfection with No Corrosion	No Halomethane Formation	Biofilm Elimination	Cost Benefits
Thermal Treatment	●	●	●	●	●	●
Chlorination	●	●	●	●	●	●
Chloride Dioxide	●	●	●	●	●●	●●
Copper + Silver Positive Ions	●	●	Not compatible with zinc surfaces	●	●	●
Ozone	●	●	●	●	●	●
Filtering	●	●	●	●	●	●
Ultraviolet Rays	●	●	●	●	●	●
<b>Ecas4-Anolyte</b>	●	●	●	●	●	●

● HIGH ● MEDIUM ● LOW