



E-Institute

Official Newsletter of IPA

**MERRY CHRISTMAS
AND A
PROSPEROUS
NEW YEAR**
to all our readers.

From the IPA Council and Secretariat
we wish you all a happy and safe
festive season and look forward to an
exciting and productive year in 2016.

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It is that time of year when we are all endeavouring to clear our desks by signing off files that are able to be completed and collating information on open files for an orderly start to the new year. Many of the files that I deal with are related to Australian Standards or Plumbing Regulations and it is pleasing to see projects that have taken a great deal of time and discussion through 2015 now out for public comment (see

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list below) meaning that we are maybe only one meeting to analyse the comments away from publication.

One standards project that is continuing into 2016 is the review of AS/NZS3500.4 to include Circulatory Heated Water Systems. Although this work is only now achieving resourced project status an industry wide Working Group has been working diligently since early 2015 in scoping and research in readiness to begin drafting the proposed changes and additions to the standard.

Also in 2016 it appears that several interesting and diverse research projects will continue or commence looking at matters such as junctions and offsets in



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sanitary drainage stacks, waterless urinal discharge pipes, effects of temperature, pressure and velocity in water pipes. An international laboratory study of failed piping systems from around the world including Australia is planned and further information and how you can help will be provided in the next issue of E-Institute.

In January 2016 the Department of Education and Training will bring new arrangements for developing and maintaining training packages with Industry Skills Councils being replaced by Skills Service Organisations (SSOs). Under the new arrangements for developing training packages, Industry Reference Groups (IRGs) will drive training package development. They will be supported in this work by SSOs who will provide technical, operational and secretariat activities to enable IRGs to undertake their industry engagement and training product development and review activities. Decisions about the content of training packages to be put forward for approval will be the responsibility of the IRG. It is expected that the membership of the current NPSIRG (including IPA) will form the basis for any new IRG to be formed under the new arrangements.

All I all another busy year ahead and your Institute Council and Secretariat look forward to continuing the promotion of the practice of Plumbing as the preeminent profession for the protection of public health and the environment.

Stephen Movley  
Editor

Craftsmanship and History:

## • **Kings and Plumbers**

Published on Friday, 13th February 2015





## Liveryman Jon Castleman Makes Richard III's Lead Coffin

Liveryman Jon Castleman, Chairman of Norman & Underwood Ltd, has just completed the fabrication of the lead ossuary to take the remains of Richard III, and will be interred in Leicester Cathedral on 26th March this year. The ossuary will have a softwood cradle constructed around the lead casket to keep the lead away from the coffin's oak, as the tannin in the oak will corrode the lead over time. The maker of the oak coffin is Canadian born Michael Ibsen, a direct descendant of Richard III's eldest sister Anne of York, Duchess of Exeter (1439-1476), who is a cabinet maker working in London. Michael was discovered through DNA sampling. The casket is 1.7m long, 350mm wide and 255mm deep.

From article in March 25 **Country Life**.

## Climate and Solar Water Heaters:

### E3 Committee Consultation Update – Zoned Map for Solar Hot Water Systems

The E3 committee has approved the release of the Report *Zoned Map for Solar Water Heaters*.

The report is being released for information and comment. The paper can be accessed on the Energy Rating website at: <http://www.energyrating.gov.au/document/report-zoned-map-solar-water-heaters>

This paper sets out a methodology for a zoned map for solar water heaters. The methodology relates system performance to the impacts of climate at the installed location of solar water heaters. This work was done under the broader umbrella of the development of a Zoned Energy Rating Label by E3 for climate affected appliances.

The comment period for this paper closes on 1 February 2016.

We would welcome your comments on this work.

Regards

The Energy Rating Team

## Health Facilities Design and Development 2016:

Hi Stephen,

The new **\$120 million St John of God Berwick Hospital** is set to become a major health precinct in Melbourne and has been carefully designed to allow future growth and expansion.

Set to open in July 2017, the project team has developed a master plan to ensure the facility can cater for changing patient demands, with an emphasis on the role of design innovation in improving patient outcomes.

Ahead of **Health Facilities Design and Development 2016**, we caught up with **Lisa Norman, CEO of St John of God Berwick**, to find out the strategies the project team is using to design and build an innovative hospital and the lessons learned along the journey so far.

[Watch the video interview here](#) | [Read the transcript here](#)

Watch the interview to find out how St John of God Berwick is:

- **Linking elements of design to patient outcomes**
- **Using innovative design techniques to boost staff engagement**
- **Managing stakeholder relationships to meet the project vision**
- **Involving the community in the design and build process to meet community expectations**

If you found this interesting, check out the upcoming [Health Facilities Design and Development](#) (part of Australian Healthcare Week) taking place in Sydney on the **15-16 March 2016**. The event will include over 20 sessions, including a project overview on “**The New Northern Beaches Hospital: A New Approach to Partnerships between the Public and Private Sectors**”, covering:

- **Use group engagement during the design phase**
- **Future proofing the facility – expansion plans**
- **Achieving service efficiencies through shared physical infrastructure and resources**
- **Managing the transfer of patients from existing facilities**

- **Stakeholder management through the project lifecycle**

This session will be led by Deborah Latta, Project Director at **The New Northern Beaches Hospital**.

To find out more about the value of attending and how your organisation can specifically benefit from your attendance, [download the business case here](#) or [download the agenda](#).

Ensure you register by **next Thursday, 17 December** to take advantage of the **best early bird rate\*** - [book online here](#), email [registration@iqpc.com.au](mailto:registration@iqpc.com.au) or call **02 9229 1000**.

I hope to see you at the event next March.

Kind Regards,

Lauren Kelleher  
Editor - [Health Facilities Design and Development](#)  
Australian Healthcare Week 2016

[Follow us on LinkedIn](#) for the latest event updates and content.

\*Discount subject to availability and not available to vendors or solution providers.

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## Standards Australia:



### **Publication of AS 1071-2015: *Placement and presentation of hand hygiene materials in health care settings***

On 17 November 2015, Standards Australia published AS 1071, *Placement and presentation of hand hygiene materials in health care settings*.

The standard specifies requirements and provides guidance on the placement, presentation, design, maintenance and installation of hand hygiene products for use in health care settings.

Its objective is to reduce disease and death resulting from health care associated infections; reduce waste of solutions from incorrect use; and improve hand hygiene by reducing errors in hand hygiene practices associated with choice and use of products.

It was prepared by Technical Committee SF-021, Human Factors. This committee has representatives from industry associations, medical associations, educational institutes, and interest groups for safety and ergonomics.

One of the nominating organisations constituting this committee is the Queensland Emergency Medicine Research Foundation (QEMRF).

QEMRF chair Associate Professor Sally McCarthy said it was remarkable that an initial research grant of \$16, 800 had delivered a national protocol and improved health care for millions of Australians.

“We are extremely proud that QEMRF-funded research, led by Brisbane emergency medicine specialist Dr Michael Sinnott, has created such wide-ranging, practical outcomes,” Associate Professor McCarthy said.

The study, conducted at the Princess Alexandra Emergency Department, found that the placement and selection of soap, sanitising foam and hand lotion led to better hygiene amongst health care workers in Emergency Departments.

Debra O'Connor, representative of the Consumers Federation of Australia, added that “health care acquired infections are a major concern for consumers, particularly for older people and other vulnerable groups. This practical standard will contribute to the improvement of hand hygiene, an essential component of prevention and should inform practice across all health care settings.”

Standards Australia recognises the contribution of all nominating organisations and contributors to the document and the process.

**ENDS**

Excerpt from Standards Australia Sector Update November 2015 - Water and Waste Services:

Standards open for public comment:

**DR AS 1371:2015**

Toilet seats and fittings  
Standards Australia

**DR AS 1546.3:2015**

On-site domestic wastewater treatment units - Aerated wastewater treatment systems  
Standards Australia

**DR AS 1668.2-2002 Amd 2:2015**

The use of ventilation and airconditioning in buildings  
Standards Australia

**DR AS/NZS 3500.2:2015 Amd 1:2015**

Plumbing and drainage - Sanitary plumbing and drainage  
Standards Australia

Or go to website for full list including:

DR AS3688:2015 – Water supply and gas systems- Metallic fittings and end connectors (Pushfit fittings for copper and stainless steel pipes.)

<https://sapc.standards.org.au/sapc/public/listOpenCommentingPublication.action>

Also keep an eye out for amendment to AS/NZS3500.2:2015 for Vacuum Drainage to be open for comment in new year.



### Joint WHO/UNICEF/USAID document just released: Improving nutrition outcomes with better water, sanitation and hygiene

A growing body of evidence indicates that access to safe drinking-water, sanitation, and hygiene (WASH) services has an important positive impact on nutrition. Achieving the six Global Nutrition Targets 2025, as well as global goals for WASH and health, will require greater investments in nutrition and WASH and smart and sustainable integrated actions. The document summarizes the current evidence on the benefits of WASH for improving nutrition outcomes and describes how WASH interventions can be integrated into national nutrition policies and programmes to add value. [http://www.who.int/water\\_sanitation\\_health/publications/washandnutrition/en/](http://www.who.int/water_sanitation_health/publications/washandnutrition/en/)

### Health and Climate Change: Road to COP21

Climate change has the potential to do serious harm to the health of individuals around the world. But tackling climate change could substantially reduce the risks while also improving human health by, for example, delivering cleaner air and healthier cities. That's why [WHO is asking you to support our call to action](#), with the aim at raising awareness of the health opportunities we can realise by tackling climate change now.

**You can take action today by:**

1. Signing the WHO Call to Action. [Click here and sign.](#)
2. Sharing it with your professional networks, friends and family.
3. Learning more about how acting on climate change could improve human health.

### Nitrate and Nitrite in Drinking-water

#### Background document for the Guidelines for Drinking-water Quality – feedback requested

In implementing the post fourth edition workplan of the GDWQ, the nitrate/nitrite background document for development of the Guidelines for Drinking-water Quality (GDWQ) has been revised. Comments are welcome and should be sent to [gdwq@who.int](mailto:gdwq@who.int) by 15 January 2016.

[http://www.who.int/water\\_sanitation\\_health/dwq/chemicals/nitratesnitrite/en/](http://www.who.int/water_sanitation_health/dwq/chemicals/nitratesnitrite/en/)

### Global Water Safety Conference (25-28 April 2016, Philippines) – call for abstracts

The International Water Association (IWA) and the Philippine Water Works Association (PWWA) in collaboration with the World Health Organization (WHO) are organizing the fourth **Global Water Safety Conference** from 25 to 28 April 2016 in Puerto Princesa City, Palawan, Philippines. The conference will focus on the sustainable scale up

of water safety plans (WSPs) as a mechanism to support the achievement of the Sustainable Development Goals and the progressive realization of the human right to safe drinking-water. The call for papers is now open and abstracts are due by 31 December. Paper topics and further conference details can be found at <http://www.iwa-network.org/events/global-water-safety-conference>.

### **UNICEF – Consultancy Assignment: Monitoring Specialist – WASH in Institutional Settings [deadline 30 November 2015]**

UNICEF, the world's leading organization working for the rights of children, seeks a consultant to support the WHO/UNICEF JMP team to harmonize and standardize indicators and methods for estimating access to WASH in institutional settings, to expand and update the current global database and to establish a rigorous data quality review process.

**Location of assignment:** New York, NY, USA

**Language(s) required:** English (fluency in other UN language desirable)

**Travel:** Yes

**Duration of contract:** 11.5 months (15 December 2015 – 15 November 2016)

[Vacancy notice and terms of reference](#)

### **Online course "Municipal Solid Waste Management in Developing Countries"**

MOOC series "SANITATION, WATER AND SOLID WASTE FOR DEVELOPMENT"

Learn about the key elements of a solid waste management system, with a focus on challenges of and solutions for urban settlements of low and middle income countries. Please find enclosed the course factsheet in English, French and Spanish. You can watch the trailer on our [MOOC webpage](#) and sign up for the course directly on the [course page](#).

**Course at a glance:**

**Duration:** 22 February - 27 March 2016

**Workload:** 4 - 6 hours/week

**Language:** English

**Subtitles:** French, Spanish, English

**Costs:** The course is free

Course page @ Coursera: [www.coursera.org/learn/mswm](http://www.coursera.org/learn/mswm)

MOOC page @ Sandec: [www.eawag.ch/mooc](http://www.eawag.ch/mooc)

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**Visit us at: [Water Sanitation Hygiene and Health Website](#)**

***Please forward this email on to anyone who may be interested in its contents.***

### **New Shopping Cart makes it easier to purchase and download the E-Book**

#### **Selection and Sizing of Copper Tubes for Water Piping Systems by Barrie Smith**

E-Book sales are now automated from 20 June 2014. Website address will remain as [www.plumbing.org.au](http://www.plumbing.org.au) and follow the links to Technical Books through to the shopping cart and pay by PayPal or Credit Card for immediate download.

Companion Spreadsheet files utilising the E-Book are still freely available as an additional download when you complete your shopping cart journey.

**Your input into this Newsletter and other IPA matters is always welcome and in fact sort after.**

If you are not already a member why not join and really help us provide a voice for plumbers and plumbing. Simply email the Secretary below.

Contact

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Comments on matters raised in E-INSTITUTE or suggestions for future issues are welcome and may be sent to the Editor at:

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