



WORLD PLUMBING COUNCIL  
VOL 1, 2014

# OUR MISSION





To promote the role of plumbing in improving public health and safeguarding the environment, by uniting the World Plumbing Industry, for the benefit of all



# CHAIRMAN



**Sudhakaran Nair**  
Chairman  
2013 - 2016

The proposal to publish a World Plumbing Council (WPC) Handbook has been under consideration for some time now and took shape during the term of the 2011 – 2013 Executive Board (EB). The only previous occasion when the WPC released such a printed publication was in March, 1997.

It was the unanimous view of the EB that the Handbook should be produced every three years to coincide with the EB terms. The Handbook provides an opportunity to promote the WPC and highlight its activities and successes. It also is a forum for incoming EB Members to outline their hopes and aspirations for their terms, as well as for reflections from outgoing EB Members.

While publishing the Triennial Handbook, it is the desire of the 2013 – 2016 EB to prepare a comprehensive publication covering the journey of the WPC since its beginnings in 1990. The EB agreed that the contributions of several distinguished individuals to this great global organization for more than two decades should be remembered and recorded for the benefit of all.

From May/June 1990, when the WPC was formally established at the London conference, eight EBs (formerly called Inner Councils) have administered the affairs of the Council with great distinction. While each new EB has tried to introduce fresh initiatives, continuity with the past was always ensured. Until 2008, when an external organization was engaged to administer the Secretariat, the affairs of the Council were managed by members of the EB, voluntarily.

The EB was expanded from seven to nine members during the election held at the General Meeting in New Delhi on November 13, 2013. The induction of two additional members has now enabled the EB to take up additional workloads.

The numerous initiatives of the Council, already in place, are described in detail in the subsequent pages of this publication. The current EB is committed to strengthening the ongoing projects apart from taking up fresh proposals, some of which are mentioned hereinafter.

Representation by thirty countries as of now does not do justice to the immense potential of our organization. Efforts will be made to encourage membership from more countries and for this purpose; we shall seek assistance from our existing members. WPC's membership includes large manufacturers, publishing houses etc with global presence, who have contributed in the past by enrolling members from parts of the world where we were not represented.

Launched in 2010, World Plumbing Day has seen substantial success across the globe during the past four years. WPC members in several countries have taken up innovative programmes to spread the message: "Plumbing - Vital to Global Health".

Plumbing directly affects the health and safety of everyone, irrespective of which part of the world one lives in or what profession one is engaged in. The challenge is to highlight that "Every day is a World Plumbing Day". Our mission will be successful when the message reaches one and all; well beyond the members of our profession!

Seven WPC Standing Committees were formed by the 2011 – 2013 EB. New standing committees, including one for Research and Development will now be in place with eminent individuals, already a part of this project, continuing their contribution.

As the two Annual General Meetings and the Triennial Meetings of the Council are scheduled at various parts of the world, the costs towards travel and stay has remained a deterrent for wider participation by our members. Our well established Full Member organizations from several countries will be keen for more active participation and contribution to the work of the Council. To facilitate this process, formation of WPC Regional Forums or Chapters could be considered. To begin with, these could be established in regions or countries where an EB member is present, so that better co-ordination with the EB can be ensured.

The WPC Education and Training Scholarship has been an important initiative since 2003 and ten individuals from different countries have been recipients of this scholarship thus far. While continuing with the existing scholarship, a new "WPC Scholarship for Least Developed and Developing Countries" was established during the General Meeting in New Delhi in November, 2013. While the existing scholarship is open to individuals from all countries, the new one, as the title suggests, will be available to these specific countries where plumbing standards need immediate improvement.



Due to the limited exposure to plumbing standards available to candidates from these countries, it was felt that they might find it difficult to win the scholarship in competition with contestants from developed nations.

One other proposal that will be discussed within the EB is to create a WPC video as "Seeing is Believing". The tremendous amount of noble, selfless work that the Council has done to protect the health and safety of human kind, needs to be highlighted across the world. The video will also be uploaded on the WPC website.

Although the WPC is a non-profit organization, resources are essential to implement the numerous initiatives we have on our agenda. Experience shows that due to the goodwill that we enjoy within the plumbing fraternity across the globe, there will be a number of our member organizations willing to extend helping hands with financial assistance for our specific programmes. My own observation is that until recently, we have been rather conservative or even hesitant in seeking such assistance. It will be the endeavour of the current EB to encourage such external participation, confined to what our by-laws and ethos permit, so that the scope of our activities can be enhanced.

The Distinguished Service Award (DSA) is the much revered, highest recognition by the WPC of individuals for their outstanding contributions to our industry. The DSA is presented during the Triennial conferences. During our nearly quarter of a century existence, just four individuals have received this honour. The only other felicitation of individuals by the WPC has been the medallions presented to plumbing competitors at WorldSkills events.

We are aware that there are many individuals across the world who have rendered sterling services to make our industry what it is today and many of them are within our membership. I would propose the creation of another Award, categorized between the existing two – the DSA and the Medallion. I have no doubts that recognition by our global organization, representing the entire plumbing community, will be treasured by one and all.

In order to spread our wings and to create closer working relations with renowned organizations representing different trades in the construction industry, the WPC may consider offering Honorary Membership to some of these organizations. Since plumbing affects every human being, we may be able to encourage these organizations to participate in our work.

Most of the developing nations do not have government mechanisms to monitor or implement safe plumbing standards. Building/home owners are compelled to employ the available plumbing contractors or individual plumbers who may not be competent. While plumbing is a vast engineering subject by itself, awareness of some fundamentals including 'Dos' and 'Don'ts' can be handy for the common person – example, a housewife engaged in the construction of her home. While "Health Aspects of Plumbing" and "Environmental Aspects of Plumbing" published by WPC are excellent documents, these may be too technical for those outside our profession to comprehend. A Plumbing Handbook from WPC, in simple language, could prove to be a boon for ensuring safe plumbing standards, especially in developing nations.

The WPC EB is very proud of this inaugural Handbook. Its publication represents both the realization of plans and visions of previous EBs and the combined efforts of many past and present EB members and other WPC stakeholders. Thank you to all who contributed to the first in what I hope is a long series of triennial WPC Handbooks.





# DEPUTY CHAIRMAN



**Shayne La Combre**  
Deputy Chairman  
2013 – 2016

The development of this Handbook, and the Council's commitment to make this the first in a series of triennial Handbooks, is a timely record of the aspirations of this organization and the tireless, often unacknowledged work of many over its history.

This first Handbook outlines the achievements and reflections of the period of the previous WPC EB 2011 - 2013, as well as setting out the aspirations and vision of the existing elected WPC Leadership 2013 - 2016. It is intended that future Handbooks will be similarly constructed so that over time, they will provide both a distilled record of the Council's achievements and also a contextual insight into the issues confronting the WPC at different periods in its history. As the WPC's relevance and capacity continues to grow, it is envisaged that the Triennial Handbooks will become the key repository for the WPC narrative and a key point of reference archiving the activities and achievements of the Council.

The Handbook is also a valuable and important communication vehicle for the Council. The Handbook provides an opportunity for the elected leadership of the Council to not only speak directly to Members, but will also develop a stronger connection to the broader industry. By providing a space for reflection by EB Members on the immediate past term, the Council can collectively examine and review itself, identify where it can improve and determine how it can better make an impact on the very important human and environmental health challenges facing so many of the world's people.

The recording of the Council's achievements also serves to inform and frame the aspirations and activities of the incoming EB. It is hoped that this Handbook will provide a usable reference that will give clear insight into what the WPC is setting out to achieve in the immediate term, and also some appreciation of the challenges associated with developing solutions to often complex and resource intensive local and global issues.

The co-operative and collegiate way the Handbook has been put together is a credit to the previous and current EB, the Secretariat and all other contributors and support staff. I would like to pass on my earnest appreciation to all those who have contributed to this Handbook.

The Council is in an exciting and challenging phase of its development. There is a need to consolidate and build on the work that has been undertaken to date and to also be constantly looking to expand the reach of the Council into new industry sectors and into countries where there is no or little membership base.

World population pressures and a changing climate have combined to sharpen the world's focus on the importance of access to safe and reliable water supply and sanitation, particularly in respect of the need to better manage the response to increasingly variable rainfall patterns and more frequent, extreme weather events.

The key objective of the WPC to promote and explain the role of plumbing in underpinning and improving public health has been a key focus of WPC efforts over the first phase of its life. In more recent years the WPC has been concentrating on promoting the key role plumbing can and will play in safeguarding the environment and managing water resources in the future, and the links between sustainability, water and sanitation safety and public health.

The issues that have driven the Council for the first nearly quarter century of its existence have never had more world attention than they do today. Reflecting this increased relevance and focus, the Council is growing its organisational capacity and membership and broadening the scope of its activities.

The current term follows a period in which the Council sought to deepen its capacity, by establishing a system of portfolio based Committees, each headed by an EB Member, and surveyed and expanded its membership base. As the incoming EB considers how and what it can potentially achieve in the current term, it has the benefit of knowing what its membership base thinks about the approach and focus of the Council, and how it can do things effectively. The current EB has been able to plan for this term with an expanded Committee and decision making architecture and policy development capability.

The current EB fully intends to continue to foster and drive transparency and engagement with the membership and stakeholder base, and to grow the capacity of the Council. Demonstrating and enabling that continued expansion and increased capability is the creation of two new EB positions and Committees, increasing the capacity of the Council to undertake new activities and develop and co-ordinate additional research and development.



This term, the Council will continue to promote World Plumbing Day as a very significant event on the world calendar and undertake a series of activities, conferences and events that promote the role of plumbing in underpinning public health and safeguarding the environment. It will continue to engage with and expand its membership base, and to promote itself and its objectives to organizations, both public and private.

The Council will continue to communicate, at every opportunity – to its Members, Stakeholders, Governments, industries, communities and individuals – the message that safe and reliable plumbing and sanitation underpins our health. This in turn underpins our economy and our society as a whole. Water is getting scarcer and less predictable so we need to continue to be innovative, and to work together - industry, Governments and communities.

The Council will continue to advocate for good quality plumbing and will seek opportunities to remind policy and decision makers around the globe of the crucial role water and sanitation play in determining our present and future health.

The Council will continue to work on improving the skills and competency of the world's plumbers, promoting capacity development and illustrating the risks associated with poorly or untrained operators. Through initiatives that promote and recognise excellence and innovation in the sector, like the WPC Education and Training Scholarship; through the sharing of practice advances in training and education; or innovative training methods or technical developments, the Council will be creating a significant network of global knowledge exchange.

In this way, the Council will be increasingly equipped with the necessary knowledge, skills and systems to effectively drive real improvements, in terms of both public health and environmental sustainability.

By producing and disseminating publications like this Handbook, and through planned works like the further development of the "Environmental Aspects of Plumbing" publication, the Council will continue to strive to ensure water and sanitation safety is central to public policy making.

I take this opportunity to congratulate those newly elected Members of the EB in being prepared to put considerable time and effort into the leadership of the Council. While the commitment is significant, particularly by those taking up specific committee responsibilities, it is a crucial dependency for the success of the Council.

I look forward, with great confidence, to the remainder of the 2013 - 2016 term of the EB of the Council. The committed efforts of past EB's, the specific measures adopted in the previous term to deepen and strengthen the Council's capability, and the energy and passion of the current EB, support personnel and membership base means the Council is better placed than any time in its history to achieve its mission. We will continue to communicate, to advocate and to educate and to promote the role of plumbing in improving public health and safeguarding the environment, by uniting the World Plumbing Industry, for the benefit of all.





# EXECUTIVE BOARD



*WPC Executive Board from left to right: Kevin Wellman, Jim Kendzel, Ken Gardner, Elmar Esser, Sudhakaran Nair, Shayne La Combre, Steve Brown, Mingjiu Hua and Mike Massey*



## **Ken Gardner, Honorary Secretary/Treasurer**

The new term of the WPC EB gives us the opportunity to expand on our activities to promote the value and status of the plumbing professional. The skills required and the outcomes to be achieved will vary from country to country – with some emphasising the need for clean water and sanitation and others the need for water conservation and efficiency of water and energy use. With respect to both its public health and sustainability priorities, the Council needs to promote the development of standards and training of skills that enable this to be achieved.



## **Steve Brown, Director**

My vision for the next term is certainly to learn from my esteemed colleagues and pass on knowledge to create awareness of the role that the WPC plays. South Africa has certainly gained from its association with the WPC and I would like to see other developing countries benefit, education and training are key to this. Through creating a network where WPC members can interact globally, we can indeed make a difference.





**Elmar Esser, Director**

It is not just the availability and access to clean water that provides the basis for humane conditions. It is the strict separation of wastewater and drinking water that largely protects our industrialized world from health threats caused by polluted water. We must accomplish this technological feat in all parts of the world. That is our great task.



**Mingjiu Hua, Director**

In the 2013 – 2016 period, the WPC will maintain and strengthen its relationship with key international partners, try to make some breakthroughs towards achieving the WPC's objectives for the plumbing industry. We will work closely with members representing developing countries to overcome language barriers and foster communication. We propose to review the WPC's branding and promotion, and seek opportunities to broaden the use and profile of its logo and trademark, including by the promotion of World Plumbing Day.



**Jim Kendzel**

The WPC has made significant progress towards the achievement of its Mission. Through the hard work of its volunteers and the strong leadership of previous EB's the WPC has established a solid foundation upon which further success can be built. My Vision for the 2013-2016 period is to achieve two key goals. Firstly, to increase the recognition and importance of the plumbing industry to public health and environmental sustainability, through promotions like World Plumbing Day. My second key goal is to help to provide the next generation of trained plumbing professionals.



**Mike Massey, Director**

I am honoured to be a member of the WPC EB, and especially eager to continue the outstanding work of the WPC Marketing and Communications Committee. My goals for the next three years apply to both developed and developing nations. For developed nations, the basic infrastructure and sanitary plumbing systems exist; it's the plumbing systems for advanced water reuse, recycling, conservation-energy savings that must be realized that the WPC can promote through a "Best Practices" collection of information. In the developed world, the WPC can provide "Best Practice" guidance and advice in terms of how best to get governments to fund and construct the basic water and sewer infrastructure required, as well as promoting advanced systems.



**Kevin Wellman, Director**

A fundamental review of WPC's governance and strategic positioning is important so that we can focus and prioritize key objectives in the future. We must continue the immense work of others who have served the WPC and encourage greater support for future activities. Plumbing has a direct relevance to the health, hygiene and welfare of us all. There is an onus on plumbing professionals to practice efficient, effective and safe plumbing. Recognizing that 'Everyone needs and deserves fresh water' we need to work collectively to achieve this.

# VISION FOR 2013 – 2016

To achieve its Mission and to realize the Vision of the EB for the period 2013 – 2016, the WPC has identified 10 specific Objectives and documented a range of Initiatives it intends to undertake towards the achievement of each Objective. The Objectives are a combination of externally focussed activities, setting out what the Council will do in the next three years; and some internally focussed Objectives, which articulate how the Council will conduct itself in order to achieve its Mission and Vision.

The Objectives and Initiatives, which are detailed in full in the WPC 2013 – 2016 Strategic Plan, are explained and summarized below.

## **Objective 1 To develop and promote the image and professional standards of plumbing to the world**

The Council recognizes that there is significant scope to improve the general understanding, within communities and amongst policy makers and planners, of the important role good quality plumbing plays in protecting public health. Initiatives towards the achievement of this Objective include the strategic and targeted use of both traditional and social media; increasing the accessibility of WPC materials by publishing them in more languages; and tailoring specific communications messages to suit the audiences in different member countries.

## **Objective 2 To encourage, participate in and facilitate the exchange of information, research and technology applicable to the world plumbing industry**

The Council has a key role in promoting and communicating technological advancements and best practice developments in the Plumbing Industry. Member countries will work closely with their own industries, host symposiums and technical forums, and conduct research to identify and then share best practice information with the broader plumbing community. To help achieve this objective, the Council will encourage the use of and foster the development and expansion of the WPC Research and Development database.

## **Objective 3 To promote plumbing education and training worldwide**

The WPC encourages all member countries to take every opportunity to promote the links between a well trained plumbing workforce and good public health outcomes for communities. WPC will utilize and expand its networks of plumbing training organisations to encourage the development and dissemination of best practice codes and standards. The WPC will also continue to expand and promote its Scholarship Program and strengthen its relationship with partner bodies like WorldSkills.

## **Objective 4 To promote the Plumbing Industry's role in improving public health through the provision and protection of safe water and sanitation.**

The WPC has a key contribution to make to the achievement of a better quality of life for the World's population, particularly by reducing the instances and impact of waterborne diseases. The WPC will continue to work closely with other local and international bodies concerned with public health. The Council will foster its relationship with the WHO, particularly in the promotion of the joint publication, the "Health Aspects of Plumbing".

## **Objective 5 To promote the Plumbing Industry's role in safeguarding the environment through proper management, care, reuse and conservation of natural resources.**

The Council will identify and establish positive working relationships with other organisations with a commitment to protecting the environment. The Council will promote water conservation methods and advances at WPC meetings and disseminate the WPC publication, "Environmental Aspects of Plumbing".



**Objective 6 To meet at a World Plumbing Conference at least every three years**

The Council considers that World Plumbing Conferences are essential to achieving its objectives, and that Conferences should be held at least every three years. In the course of the 2013- 2016 period the Council will undertake a review of the guidelines for hosting World Plumbing Conferences with a view to ensuring the status and integrity of the Conferences is maintained and enhanced.

**Objective 7 To increase membership of and participation in the WPC**

The Council believes that active involvement in and membership of the WPC are essential elements of increasing global awareness of the important role plumbing plays in protecting human and environmental health. To this end the Council will actively encourage increased participation from member countries and encourage other countries to join. The WPC will embark on a membership recruitment campaign in the next three year period and facilitate interaction between WPC members and non-members wherever possible.

**Objective 8 To enhance the status and influence of the WPC**

Central to the achievement of this Objective is the continued support and promotion of World Plumbing Day. Also very important is the establishment of new, and the strengthening of existing, relationships with partner organisations and the continued engagement of and communication with key policy makers.

**Objective 9 Ensure adequate resources to achieve the objectives of the WPC**

To ensure the WPC remains sustainable and relevant, in the coming three years the Council will identify new funding and sponsorship opportunities and develop and implement a three year Business Plan for the Council.

**Objective 10 To ensure the integrity of the World Plumbing Council through good governance**

The Council recognizes that adopting and maintaining good governance practices is essential to ensuring the WPC promotes its Mission and achieves its Objectives in a manner that is efficient and effective, as well as legal and ethical.



# OUR MEMBERS

## Full Members

- Abrinstal
- American Backflow Prevention Association
- Asociación de Profesionales de Conducción de Fluidos
- American Society of Sanitary Engineering
- ASSE International
- Association of Plumbing and Heating Contractors
- Australian Building Codes Board
- Blik-og Rorarbejderforbundet
- British Plumbing Employers' Council
- Canadian Institute of Plumbing and Heating
- Cast Iron Soil Pipe Institute
- China Building Ceramic and Sanitaryware Association
- Confederación Nacional de Asociaciones de Empresas de Fontanería, Gas, Calefacción, Climatización, Protección contra Incendios, Electricidad y Afines
- Canadian Standards Association Group
- Energy Safe Victoria
- Hong Kong Plumbing and Sanitary Ware Trade Association
- Indian Plumbing Association
- Institute of Plumbing of South Africa
- Intertek Testing Services Shenzhen
- Master Plumbers and Gasfitters of Western Australia
- Master Plumbers and Mechanical Contractors Association of Victoria
- Master Plumbers and Mechanical Contractors Association of New South Wales
- Master Plumbers Association of Queensland
- Mechanical Contractors Association of Alberta
- Mechanical Contractors Association of America
- Mechanical Contractors Association of Canada
- National Association of Plumbing – Heating - Cooling
- National Inspection Testing Certification

## Affiliates

- ACO Severin Ahlmann GmbH and Co. KG
- Ashirvad Pipes PVT Ltd
- Akar InfoMedia Private Limited (AIM)
- Aquadeluxe SDN BHD
- Buteline International Ltd
- Connection Magazines Pty Ltd
- Crane Group Limited
- Deolalikar Consultants (P) Ltd.
- Egyptian German Co. for Construction Industries S.A.E
- Gentner Publishing International
- Geberit International Sales AG
- GEM Sanitary Appliances Pvt Ltd
- IAPMO - Canada
- IAPMO - Central Pacific
- IAPMO - China
- IAPMO - Europe
- IAPMO - South America
- IAPMO - South Pacific
- IAPMO - Virgin Islands
- IAPMO RandT Oceana Pty Ltd
- The Imperial Bathroom Company Ltd
- John Mech-El Technologies (P) Ltd
- Jaquar and Company Ltd
- Jayaswals Neco Ltd.
- Joint Apprentice Training Committee United Association Local Union #412
- The Joint Apprenticeship Committees of the Plumbing and Pipefitting Industry U.A. Local 38
- Local 67 J.A.T.C.
- Local Union 230 Plumbers and Pipefitters
- Larsen and Toubro Limited
- Northern Sanitation (P) LTD
- OASE
- Ontario Plumbing Inspectors Association Inc. (OPIA)
- Parkersburg Plumbers Joint Apprenticeship Committee



- National Sanitation Foundation International
- Plumbers Union Queensland
- Plumbers, Gasfitters and Drainlayers Board
- Plumbing Facilities Committee of China Construction Metal Structure Association
- Plumbing Industry Climate Action Centre
- Plumbing Manufacturers International
- Plumbing Products Industry Group
- Polska Korporacja Techniki Sanitarnej, Grzewczej, Gazowej i Klimatyzacji
- Richstone Group
- Royal Melbourne Institute of Technology University
- School of Plumbing Limited
- Schweizerisch-Liechtensteinischer Gebaude
- Scottish and Northern Ireland Plumbing Employers' Federation
- Service Trades Queensland

- Singapore Plumbing Society
- The Bathroom Manufacturers Association
- The Chartered Institute of Plumbing and Heating Engineering
- The International Association of Plumbing and Mechanical Officials Group
- The Institute of Plumbing Australia
- Joint Industry Board for Plumbing Mechanical Engineering Services
- The Skills Organisation, Auckland
- Unite the Union
- United Association of Journeymen and Apprentices of the Plumbing, Pipefitting and Sprinkler Fitting Industry of the United States and Canada
- Victorian Building Authority
- VVS Foretagen
- Zentralverband Sanitär Heizung Klima



- Plumbers and Steamfitters Local 43 Joint Apprenticeship Training Committee (JATC)
- Plumbers and Pipefitters Local 189 Joint Apprenticeship and Journeyman Training Committee School. (JATC)
- Plumbing Industry Apprenticeship N-P Corporation Pipes Trades Training Center - Local Union No. 393
- Plumbers and Steamfitters Local Union 398
- Plumbers and Steamfitters Local 484
- Plumbers and Steamfitters JATC, UA Local 486
- Plumbers Local Union 519
- Pipe Trades Joint Apprentice and Journeyman Training Committee for Southern Nevada, UA Local 525
- Plumbers and Steamfitters Local 582
- Potential Service Consultants (P) Ltd.
- The Plumbing Academy Ltd
- Plumbing Officials Association of British Columbia (POABC)
- Plumbing Products Industry Group Inc. (formerly Austap Incorporated)

- Reliance Worldwide
- Ridgid Plumbing Limited
- Strobel-Verlag
- Studor Limited
- Savoir-Faire Manufacturing Co. Pvt. Ltd.
- Sloan Valve Company
- Topsaj Nigeria Enterprises
- U.A. Pipefitters Local No. 274 Education and Training Center
- UA Local 375 JATC
- UAC
- United Association of Journeymen and Apprentices of the Plumbing and Pipe Fitting Industry of the United States and Canada Local 787
- United Association of Plumbers and Pipe Fitters, Local Union No. 412
- United Association of Plumbers and Steamfitters Local 290
- Viega GmbH and Co. KG
- Xiamen Runner Ind. Corp.

# COLLABORATIONS



**World Health  
Organization**

The WPC has been recognized as a Non-Governmental Organization (NGO) in relations with the WHO. We work very closely with WHO on a variety of projects.

WHO and WPC jointly published "Health Aspects of Plumbing" on World Water Day, 2006 and this document is being widely used to demonstrate the important role good plumbing can play in securing good health.



**messe frankfurt**

Messe Frankfurt is one of the world's leading trade fair organizers and exhibition venue owners. Messe Frankfurt supports exhibitors by opening up international markets for their products, offering their clients a presence in more than 150 countries.

The WPC has recognized Messe Frankfurt as its special industry partner supporting ISH Fairs and Exhibitions in Frankfurt, Beijing and Shanghai.



**International Council  
for Research and Innovation  
in Building and Construction**

CIB Wo62 – CIB is the acronym of the abbreviated French (former) name; Conseil International du Bâtiment, the full name has since been changed to the International Council for Research and Innovation in Building and Construction. Wo62 is one of more than 50 CIB Commissions covering all fields in building and construction industry research and innovation.

Wo62's scope includes water supply systems and drinking water quality inside buildings, water drainage (waste and rainwater) systems in buildings and individual waste water treatment.





WorldSkills International is a not-for-profit membership association open to organizations which have a responsibility for promoting vocational education and training in their respective countries. It provides a unique means of exchange and comparison of world-class competency standards in the industrial trades and service sector of the global economy.

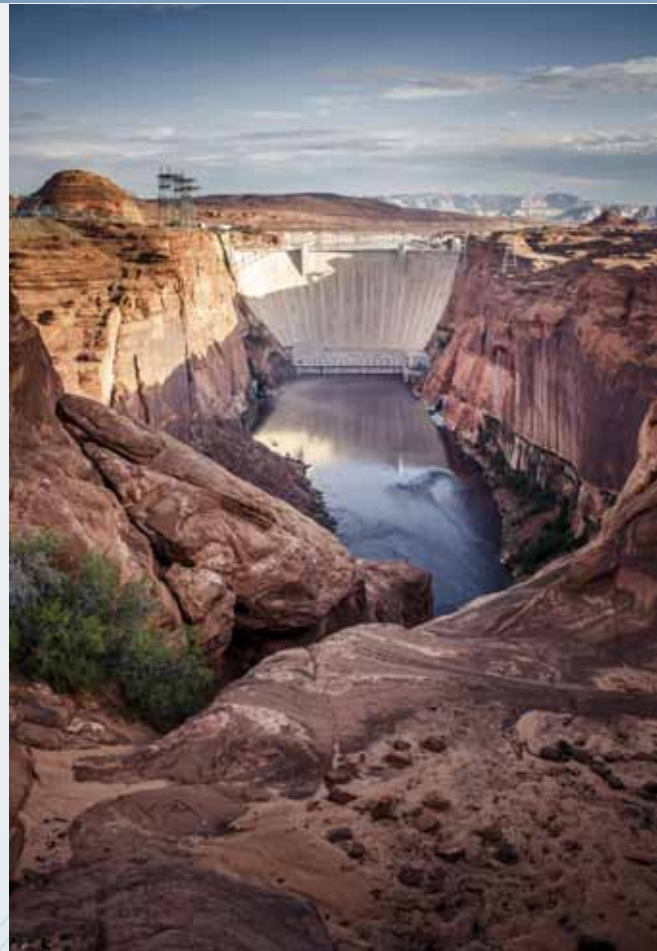
Traditional trade and craft skills along with the newer technology multi-skilled vocations, make an essential contribution to the economic and social wellbeing of people everywhere. The WPC has a Memorandum of Understanding with WorldSkills International to; share information, knowledge and networks; co-operate in the establishment of vocational standards; and to consider joint projects in promoting vocational training.



#### WORLD GREEN BUILDING COUNCIL

The World Green Building Council (WorldGBC) is a coalition of national Green Building Councils, making it the largest international organization influencing the green building marketplace. Their mission is to facilitate the global transformation of the building industry towards sustainability through market driven mechanisms.

The WPC and the WorldGBC share a mutual recognition of environmental issues and concerns relating to water use and sanitation, with due regard for public health, welfare and safety in the built environment.









# REFLECTIONS

2011 - 2013

# CHAIRMAN REFLECTIONS



**Russ Chaney**  
Chairman  
2011 - 2013

I am very pleased to have this opportunity to reflect on the major initiatives that occurred during my term as Chairman of the WPC. At the outset I want to thank all my EB colleagues for the outstanding efforts during the period 2011-2013. I have had the opportunity to work with some of the most devoted leaders in our industry, and the WPC has provided not only the forum, but the opportunity to grow personally and professionally.

Of the many achievements of the Council in that period, there are four I wish to focus on in this reflection, relating to the broadening of the membership base, the maintenance and development of key relationships, as well as the organizational and governance arrangements of the Council.

The first major accomplishment is the establishment of the Individual Member category. This provides the opportunity for any individual involved in the plumbing industry to become a member of the WPC. Prior to this initiative, membership had been restricted to Full or Affiliate Members. Over time it had become apparent that there was certainly value in enabling individuals to have access to the work undertaken at the international level by the WPC and to support this work as Individual Members.

Maintaining and developing key relationships between the Council and other international organizations has been a positive feature of my period as Chairman. The WPC relationship with WHO dates back to the mid-1990s, with the WPC achieving NGO status in 2007. The WPC also has a representative on a key WHO working group, Water Quality in Distribution Systems. The working group, with the WHO's encouragement, met in New Delhi in the lead-up to the 2013 WPC General Meeting and Conference.

The WPC signed a Memorandum of Understanding with WorldSkills International in 2004. Just over two years ago, the WPC also signed an agreement with the WorldGBC. These three tangible relationships have provided opportunity for the exchange of information to all involved in the international plumbing community, whether they are national trade associations, regional associations, manufacturers, engineers, installers, inspectors and now individuals.

WorldSkills International competitions continue to provide an excellent opportunity to promote the WPC, whose Chairmen have presented WPC medallions to competitors and associated experts at the conclusion of the plumbing competition since 2003 in St. Gallen, Switzerland.

The WPC also has a representative on the recently formed WorldSkills Foundation's Board of Trustees. The WorldSkills Foundation seeks to develop innovative responses to the challenges facing society. The plumbing industry is one of the main areas of focus that the WorldSkills Foundation is presently addressing. Most recently, the WorldSkills Foundation has established a water innovation challenge that will take place in Singapore in June 2014. This event is a team challenge that will bring together three teams from the plumbing industry to compete with one another over the course of three days to design innovative plumbing systems in lesser-developed countries such as Nepal and Bangladesh, and they will design sanitation systems that will provide solutions, thus enabling access to drinkable water and safe sanitary systems.

As I mentioned earlier, the WPC signed an agreement with the WorldGBC, and we all recognize that the traditional focus of our industry on public health and safety is now much broader as a result of environmental concerns related to the systems that we design, install, inspect and maintain. At our recent conference in New Delhi, India – which marked the end of my term – the WPC was proud to publish and release officially the "Environmental Aspects of Plumbing", a companion document to "Health Aspects of Plumbing", which addresses environmental concerns related to water supply and sanitation.

We also have an ongoing special relationship with Messe Frankfurt, which organizes the ISH Trade Fair in Frankfurt, Germany, and Beijing and Shanghai, China.

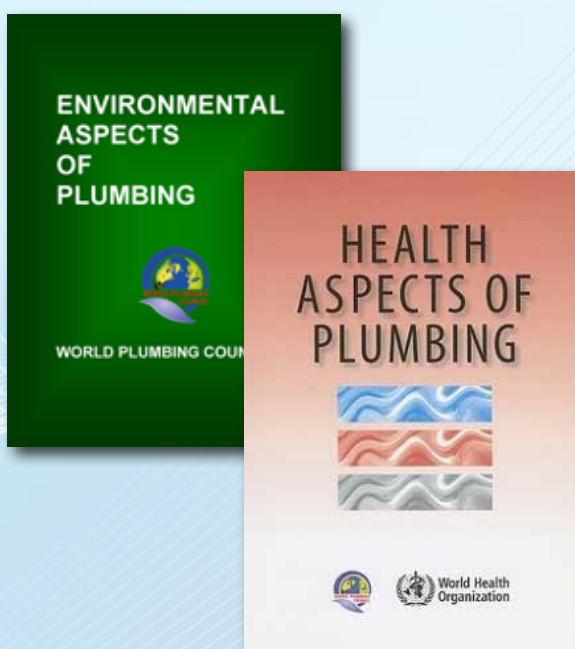


As well as expanding its membership base to include Individual Members, and developing and fostering key relationships, a third major initiative I wish to highlight was the formation of WPC Committees. One of the newer committees is a Research and Development Committee whose purpose will be to collate research into plumbing systems that has been done in the past or that may be ongoing presently, and that database will make it easier for everyone in our industry to know what research is occurring where, and why. The WPC will act as a portal to disseminate that information through our Research and Development Committee.

Finally, there have been some changes to the administration of the WPC. As many of you know, we were registered in Geneva, Switzerland, back in the early 1990s. We have chosen to relocate our registered office to Zurich, as well as to establish a banking relationship with a major international bank also located in Zurich. This process is almost complete, and we will now be able to operate from an administrative perspective much more effectively and efficiently.

It has been the pinnacle of my career to have the opportunity to serve as Chairman of the WPC. It is a time of which I will always have fond memories of, and especially the individuals with whom I had the good fortune to work alongside.

I wish Chairman Sudhakaran Nair the best, and I only hope he has the same level of support and success that I had during my term as Chairman.



# DEPUTY CHAIRMAN'S REFLECTIONS



**Sudhakaran Nair**  
Deputy Chairman  
2011 - 2013

Before I outline some of the key achievements of the EB 2011 – 2013 during which time I was Deputy Chairman of the WPC, I wish to take this opportunity to describe my involvement with the Council in the lead up to this time.

In March 2005, I was nominated by the Indian Plumbing Association (IPA) to represent them at the 7th World Plumbing Conference and Triennial meeting at Auckland, New Zealand. My exposure to the WPC at that time was very limited and the only face I could recognize when I entered the meeting room at the Sky City was that of Andy Watts, the then WPC Secretary. As an election to the EB was scheduled at the Triennial meeting, my nomination had been forwarded by IPA to contest one of the three Directors positions.

Then WPC Chairman, now heading the Secretariat, Stuart Henry allowed all nominees to speak for few minutes and I spoke of the woeful status of the plumbing industry back home in India. I had been part of the industry for thirty five years by then! I requested WPC's assistance in improving plumbing standards in India.

When the election results were declared, I was pleasantly surprised to know that I was one of the successful candidates. When a meeting of the new EB (2005-2008) was called and the probable venue for the Strategic Planning Meeting was being discussed, I volunteered to host it in India. In just three months thereafter, in June 2005, the WPC EB travelled to India for the first time for the Strategic Planning Meeting at Kumarakom, Kerala. The EB also participated in the IPA Annual Conference conducted at Cochin, Kerala, thereafter.

After my first term in 2005 – 2008, I had the privilege to serve the Council for two more terms (2008 – 2011 and 2011 – 2013) under the Chairmanship of Robert Burgon and Russ Chaney respectively. After two terms as Director, it was during the Triennial meeting at Edinburgh that I was elected as Deputy Chairman for 2011 – 2013 term. The Strategic Planning Meetings of 2008 – 2011 and 2011 – 2013 were held at Seoul, South Korea and Ontario, California.

The most important initiative of the 2005 – 2008 EB was the establishment of a closer working relationship with WHO, and the subsequent secondment of a plumbing expert from WPC to work with WHO.

Launching World Plumbing Day in 2010 was indeed a landmark decision by the 2008 – 2011 EB. The occasion provided the opportunity to spread awareness on the important role the plumbing community performs to provide clean potable water and safe sanitation to the world population. World Plumbing Day enabled the members of our profession world over to convey our critical message "Plumbing – Vital to Global Health" to all.

When the 2011 – 2013 EB was formed, it was decided that each Board Member should chair at least one of the seven Standing Committees. The Committees and the scope of their activities were defined at the Strategic Planning Meeting held at Ontario, California, in November 2011. This has proven to be an effective move resulting in the distribution of the workload among the Board Members.

Past WPC Director Stephen Movely, who administered the WPC Secretariat during the 2008 – 2011 term, retired and the responsibility was taken over by another WPC veteran, past Director and Chairman, Stuart Henry who continues to serve the Council now.

Unlike the usual three year term, the 2011 – 2013 EB was the only one with a two year term. Apart from the Strategic Planning Meeting at the beginning of a term, the EB usually meets twice a year. The 2011 – 2013 EB met five times in two years – April 2012 in Beijing, October 2012 in Brisbane, March 2013 in Frankfurt, August 2013 in Ann Arbor, Michigan and November 2013 in New Delhi.

The introduction of a new membership category – Individual Member – for the first time, has been one of the major decisions of the 2011 – 2013 EB. Until then, the WPC remained a body representing organizations.



If I was asked to point out the greatest achievement of WPC over the years, I would not hesitate to mention "Uniting the World Plumbing Industry" which is part of the WPC's Mission Statement. The WPC provides a forum for plumbing organizations and professionals to interact and it is for them to maximize the benefits of this opportunity. India is an example of this reality because the past decade of close association with the WPC has enabled the IPA to accelerate transformation of the Indian Plumbing Industry. This was made possible through a close working relationship between two WPC member organizations – IPA and IAPMO. It is pertinent to highlight that, during these few years, the WPC EB visited India on four occasions, apart from participation by the Board Members in conferences and seminars on other occasions.

The WPC provides all with an opportunity to work with some of the best brains in the industry from across the world. Each individual is a volunteer with a single minded passion to improve the plumbing standards and thereby the lives of people across the world.



# EXECUTIVE BOARD REFLECTIONS



**Hans Tiedemann, Secretary/Treasurer**

I have enjoyed my 13 years of participation with the WPC, the last eight of them on the EB as Treasurer 2005 – 2008 and once a contracted Secretariat was hired then as the Hon. Secretary Treasurer 2008 – 2011 and 2011 – 2013. They were exciting times where the WPC finances grew, where an NGO status was obtained and with the extra fundraising efforts we were able to accomplish larger projects with the WHO and other individuals and organizations.

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**Elmar Esser, Director**

Positively the World Plumbing Conference in New Delhi in November 2013 was my main highlight from the 2011 – 2013 team. It brought the desperate call for fair and equal access to water to the attention of the public. Furthermore it was a great honour that in August 2013 WPC decided to support the launch of a second international poster competition “Water is Life” among arts students all over the world by ZVSHK. This competition will underline the importance of access to clean water provided by qualified plumbing. We are looking forward to exhibiting the winner posters during ISH 2015 in Frankfurt

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**Mingjiu Hua, Director**

Consistent with the aims and objectives of the WPC, in 2011 – 2013 we have undertaken considerable World Plumbing Day promotional activity. A key highlight for the term was hosting the 2012 WPC Annual Meeting in Beijing, which was very successful. Other highlights include facilitating cooperation between Messe Frankfurt and China exhibition, and organizing a large delegation to participate and support the World Plumbing Conference of 2013 in India. Considerable effort was also put into translating and printing a range of WPC materials.

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**Shayne La Comb, Director**

In the 2011 – 2013 period, the Council continued to broaden its scope, particularly in terms of an increased focus on sustainability. By expanding its membership and stakeholder base, and by promoting World Plumbing Day and engaging with industry and government decision makers, the WPC was able to heighten its influence on world sanitation and health, as well as water management and sustainability. For the first time, the WPC surveyed its members and received some very constructive feedback and suggestions for improvements, especially in relation to enhanced communication and information exchange between the Council and members and between the members themselves.

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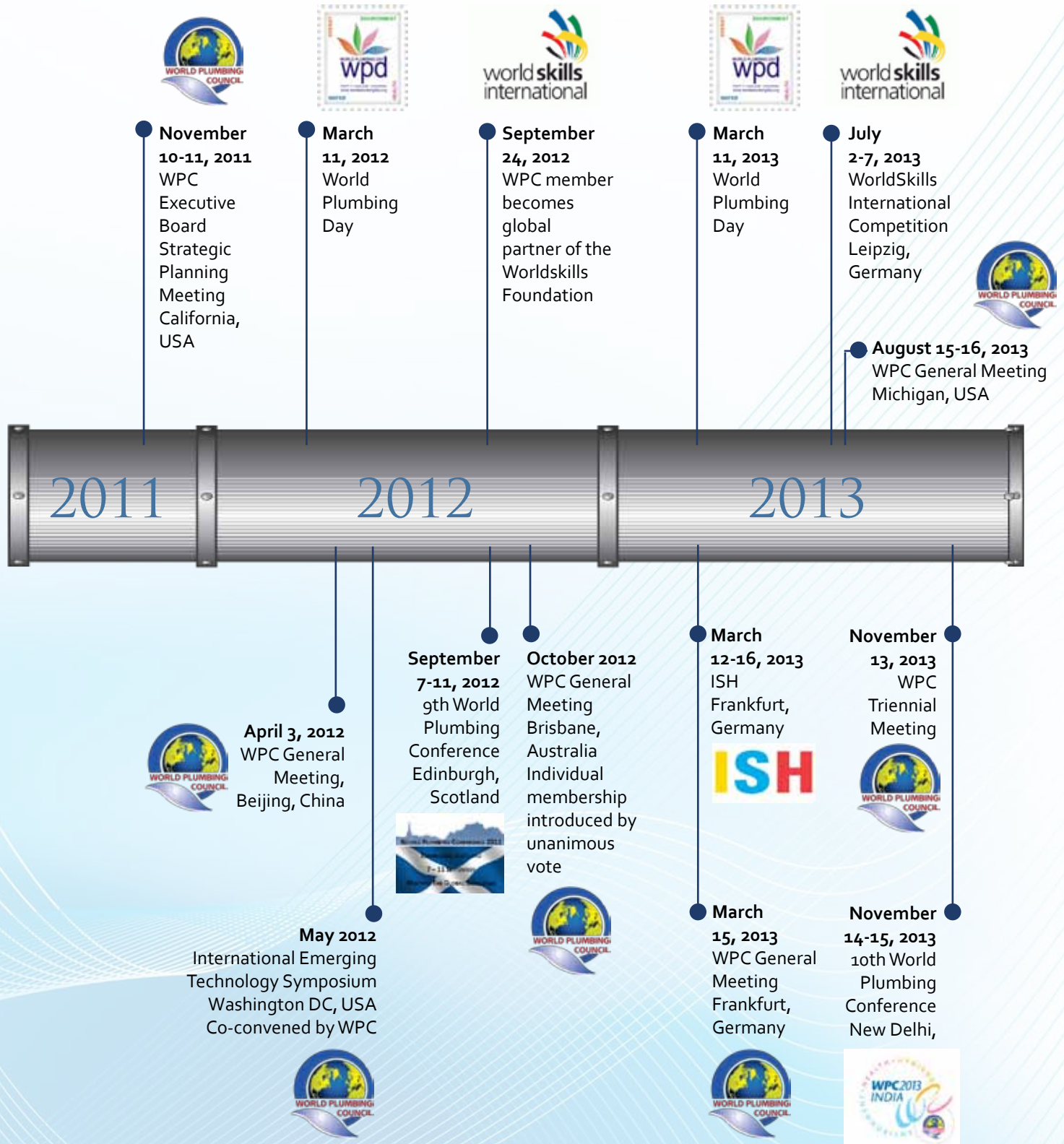


**Richard J. Prospal, Director**

The past five plus years as a Director of the WPC have been the most fulfilling yet humbling of my 50 years in the plumbing industry. Fulfilling because of the opportunity to meet and work closely with some of the greatest minds in the plumbing industry. The experience opened my eyes to the much needed work that still needs to be done to make things better for people in many parts of the world by creating an awareness of the health benefits of clean drinkable water and good working sanitation systems. It was also a humbling experience because it taught me that one person can make a difference just by getting involved.



# MILESTONES 2011-2013



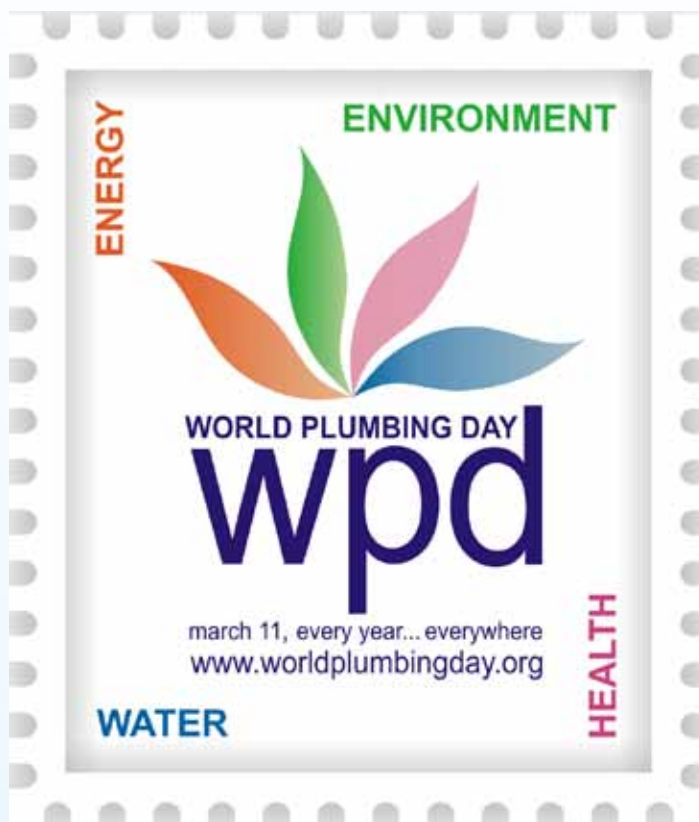
# WORLD PLUMBING DAY

World Plumbing Day was launched by the WPC's EB 2008 – 2011 under the Chairmanship of Robert Burgon, in October 2009. The inaugural World Plumbing Day was March 11 2010, and the recognition and importance of World Plumbing Day as a key date on the international events calendar has grown every year since.

When launching World Plumbing Day, it was the Council's hope that in March each year communities would pause to reflect on the vital role plumbing has in protecting their own health, but also that of all people and the planet. To promote World Plumbing Day, and to ensure it achieves that objective and continues to evolve and expand its profile, many and varied activities have been undertaken in nations all around the globe over the past three years.

The growth in recognition of World Plumbing Day and the level of engagement by government and industry and the plumbing profession, has been very strong and is growing.

On the continents of Australia, Europe and Africa, events are organized to mark the occasion and draw attention to the importance of good plumbing and sanitation. In China, England, Germany, India, Canada, North and South America and many more places industry peak bodies, a myriad of training and regulatory bodies and authorities, governments, policy makers, and community based organizations are promoting World Plumbing Day.



## *Plumbing, Vital to Global Health*



Videos highlighting events posted on the official World Plumbing Day Youtube channel

YouTube

[www.youtube.com/user/worldplumbingday](http://www.youtube.com/user/worldplumbingday)



Year on year the prominence of World Plumbing Day has increased, and there is every reason to be confident this will continue. In offices and training colleges, on worksites and in classrooms, and in legislatures and parliaments around the world, World Plumbing Day is being marked and recognized. In media releases and magazine articles in Chinese, Hindi, English, German and Spanish, the message about the link between good plumbing sanitation and human and environmental health is reaching millions of people each March.

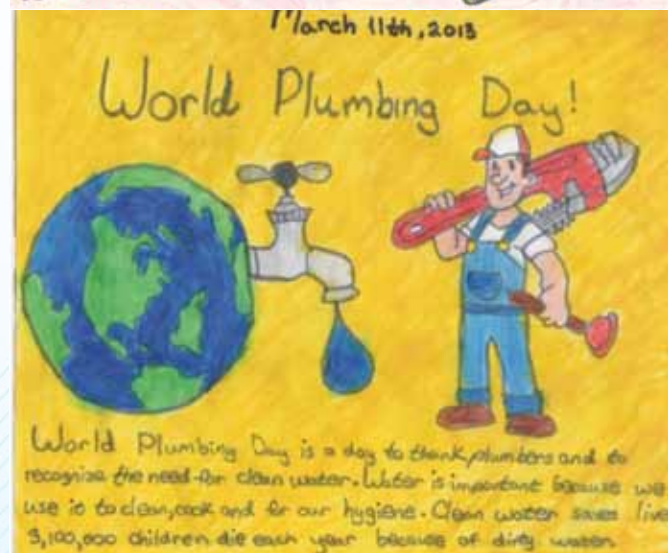
Clever strategic promotions and partnerships; and building links between World Plumbing Day and other health or water related activities or campaigns; have further increased the reach of World Plumbing Day. Like the very successful experience in Germany of linking World Plumbing Day to their international poster competition under the "Water is Life" banner, generating nearly 5000 entries from 83 countries.

In China, where World Plumbing Day is promoted increasingly heavily each year at the ISH – Shanghai, one of the world's biggest exhibitions for the combination of water and energy, and which brings together the latest technology and advances in everything from sustainable sanitation solutions, innovative bathroom design and energy efficient heating technologies combined with renewable energies to environmentally friendly air-conditioning, cooling and ventilation technology.

To ensure the continued growth of World Plumbing Day it is important that all countries and individuals continue to find innovative and effective ways to promote and increase the recognition of World Plumbing Day within their own communities, industries and at a government level.

A good example of this balanced approach to promotion is the Canadian experience of World Plumbing Day last year. In Canada, World Plumbing Day proclamations were obtained in the Canadian Senate as well as many cities throughout Canada. Individuals made presentations to schools and also made students aware of the international poster competition. A number of wholesalers celebrated World Plumbing Day by putting on functions for their staff and clients at their buildings. Some contractors celebrated World Plumbing Day with their staff.

These types of creative and strategic linkages are very valuable and the WPC encourage all countries to continue to think of new and innovative ways to promote World Plumbing Day on March 11 every year.





# WORLD PLUMBING DAY



## UK

The Chartered Institute of Plumbing and Heating Engineering along with a number of other organizations contributed towards the production of a DVD commissioned by the Scottish and Northern Ireland Plumbing Employers' Federation, which is narrated by Professor Mala Rao, a leading public health expert who was formerly Chief Medical Adviser to the NHS. Video is available at [www.youtube.com/user/worldplumbingday](http://www.youtube.com/user/worldplumbingday).



## USA



### **2012 Poster Competition**

Chairman Russ Chaney with first place winner Alexis Briano, Grade 5, La Verne Heights Elementary School, California, USA.

## Trinidad and Tobago



Terrance Jurawan, Permanent Secretary, Ministry of Public Utilities, Mr. Scott Fabres, Managing Director of Plumbing Solutions, Trinidad with students from Bishop Anstey Junior School celebrating the launch of World Plumbing Day, 2010.





## USA

In Watertown, Massachusetts the Plumbing Museum hosted an open house honouring industry professionals who contribute to health and safety through plumbing and sanitation.



## Singapore

Felinda Wong sang "Plumbing a Healthy Lifestyle" for the Singapore Plumbing Society.



## Australia

The Master Plumbers and Gasfitters Association (MPGA) in Perth, Western Australia, decided to celebrate with an attempt at the Guinness World Record for the Longest Human Towel Chain. At approximately 12:50pm, on Monday March 11 - World Plumbing Day 2013 - the MPGA broke the Guinness World Record.



# WORLD PLUMBING DAY

## International Poster Competition

The World Plumbing Day International Poster Competition in 2013 created a great deal of interest and excitement from elementary and primary schools from around the World. Entries were received from the United Kingdom, Scotland, Canada, Jamaica, Trinidad and Tobago and the USA. The USA was particularly well represented with schools from the states of California, Nevada, New York, New Jersey, and Ohio submitting posters.

The quality of all of the entries made the judging a challenge, however under the guidance of WPC Director Richard Prospal all entries were assessed, with the best 25 being selected to be reviewed and voted on by the American Society of Sanitary Engineers at their mid-year meeting held in Cleveland, Ohio.

Over a two day period close to 50 ballots were cast by meeting delegates who had been asked to choose the top three posters out of the 25 selected, and to rank them first, second and third.

The results were announced with the Caribbean countries of Jamaica and Trinidad sweeping the pool and achieving a great coup for this magical area of palm trees, white sandy beaches, turquoise water and sunshine. In fact, despite the strong competition from around the world, all three winners came from these two Caribbean countries.



*Andrew Malcolm, winner 2013 (Jamaica)*

The winners in the poster competition were:

- **First Place:** Andrew Malcolm, 5th grade at Corinaldi Ave. Primary School, Montego Bay, Jamaica (pictured)
- **Second Place:** Nakelia Humphrey, 5th grade at Corinaldi Ave. Primary School, Montego Bay, Jamaica
- **Third Place:** Liana Ellis, 4th grade at Dunross Preparatory School, St. James, Trinidad

Andrew and Nakelia are both in 5th grade classes at Corinaldi Avenue Primary School, which has a student population of some 1664 from grades 1 to 6. "Every boy my brother, every girl my sister" is the school's motto and the school has developed and maintained a culture of hard work, teamwork and shared success. WPC Chairman, Russ Chaney prepared a video for the Corinaldi Avenue Primary School's assembly when Andrew and Nakelia were presented with their awards. He congratulated the students on their success and thanked the school and teachers for proactively supporting World Plumbing Day through the poster competition.

Community groups, such as Cubs and Scouts, elementary and primary schools from around the world are all invited to participate in the World Plumbing Day International Poster Competition, sponsored by the WPC. Students are asked to design a poster illustrating the important role of plumbing and plumbers, focusing on the World Plumbing Day message, plumbing-vital to global health, the role plumbing it plays in every day life and in protecting the environment.

The winning posters will receive the following awards from the WPC:

- **First Prize:** USD1,000 to the school and USD100 to the student
- **Second Prize:** USD500 to the school and USD50 to the student
- **Third Prize:** USD250 to the school and USD25 to the student



## Water is Life Exhibition

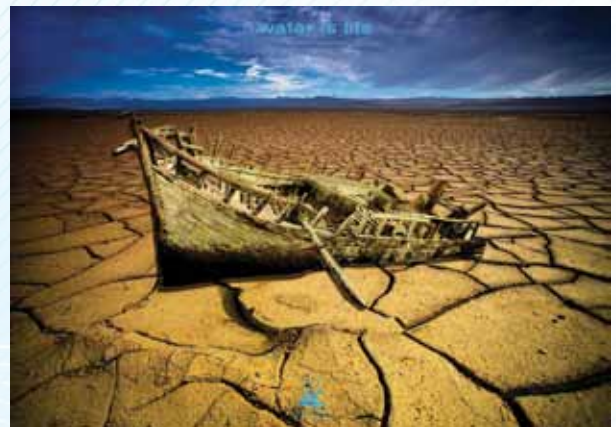
In 2010 German Sanitation, Heating and Air Conditioning Association (ZVSHK) called on all students studying fine arts, design, communication design and architecture to enter an international poster competition entitled "Water is Life".

The aim of the competition was not only to demonstrate that the younger generations are prepared to bear their share of the responsibility for our world but, first and foremost, to publicize the message that 'Water is Life' to a broad public by means of worldwide exhibitions. This is even more significant given the fact that on 28 July 2010 the United Nations General Assembly incorporated the 'right to clean water' in the Universal Declaration of Human Rights.

The contest was held in collaboration with Professor Heinz-Jürgen Kristahn from the Berlin University of the Arts, Professor Lieyan Wu, Rector of the Nanjing Arts Institute, China and Professor Xiaouu Zhou, Dean of the Fine Arts School, Hangzhou Normal University. It was sponsored by Duravit AG, German Sanitary Industry Association, Gentner Group, Media Consulta International AG.

Almost 5,000 participants from 83 countries entered the competition. 130 of the best posters are part of an exhibition that has been shown for the first time at ISH 2011 in Frankfurt/Germany. It was then sent to Cape Town (South Africa) as part of the official event of UN World Water Day 2011. Later that year the exhibition was shown in China, Hungary and in Edinburgh/Scotland during the WPC's Triennial Meeting.

On March 31, 2012 the exhibition was opened at Xi'An Academy of Fine Arts in Xi'An (China). Together with the Vice-President of Academy of Fine Arts in Xi'An, Elmar Esser, CEO of ZVSHK and Professor Kristahn the event was attended by more than 100 guests. Chairman Russ Chaney, Secretariat Stuart Henry, Board Members Hans Tiedemann and Richard J. Prospal represented the WPC as well as publisher Erwin Fidelis Reisch of Gentner Group.





# ACHIEVEMENTS

## Individual Membership

A key achievement for the 2011-2013 period of the WPC was the expansion of its membership to include Individual Membership. Membership to WPC is now available in three categories, Full, Affiliate and Individual.

Members at the WPC General Meeting in Brisbane, Australia, in late October 2012, achieved this major milestone in the short history of the WPC. Members, through a country vote, unanimously endorsed the WPC Bylaw amendment which created a new category of membership, an Individual Member, which over time will positively impact the capability of WPC in meeting its objectives.

Mr. Henry Hung, former WPC director and Deputy Chairman who was a champion of individual membership for over 10 years, was unanimously declared by the meeting as the first Individual Member of WPC. This was followed by a number of other firsts, in relatively, quick succession:

- Carmel Coate, Plumbing Products Industry Group, Australia became the first woman to be an Individual Member
- Lindsay and Shayne La Combre the first father and son to be Individual Members
- Todd and Gaby Davis the first married couple to each become Individual Members.



## WPC joins project in Nepal

The WPC was very pleased to be able to support the WorldSkills Foundation and Healthabitat, an award winning Australian not-for-profit organization, working with a local Nepalese organization, the Community Health and Development Society as part of a Nepalese Village Sanitation Program, Nepal Sanitation Studio in January 2013.

The 'Sanitation Studio' was a week-long project in Dhulikhel village, Nepal, combining an experienced team of plumbers (including representatives from the WPC, WorldSkills Foundation, Global Founding Partners IAPMO and RMIT University), with a team of Australian architecture students, working alongside community representatives to design and install new toilets, rainwater and biogas systems.



*Grant Stewart, WorldSkills, Tom Gugino (WPC) with Nepalese plumber Surya Lama inspecting a water tank and rainwater catchment system*

The key aim of the Sanitation Studio was to work with the existing skilled Nepalese Team to develop the design process and construction details of toilets to further improve health by the safe removal and treatment of human waste. In the words of Paul Phaleros of Healthabitat, "the studio was a great way to use the passion of young people, students, and also experienced people, an experienced plumbing team, to not to come over the top of a Nepalese Team, that have been building toilets for a few years now, but to actually improve the quality of all parts of the toilet. Also to improve the way we design them and to help the Nepalese team with the tools they can use to better work with local families and villages to design and build toilets."

The Nepalese Village Sanitation project commenced in late 2006, with Healthabitat working with the villagers to plan the first stage of the sanitation phase, including discussions about design of the toilet buildings, using biogas digesters and/or septic tanks for waste management, the need for water, accessing supply and storage.





*Nepalese mountain villages*

Since July 2007, a total of 58 toilets with either septic tank (38) or biogas (20) waste systems have been built in Bhattedande. Villagers have been instructed in toilet maintenance and regular hygiene including hand washing with soap. Two local women have been trained to inspect and report any faults with the toilets as part of the ongoing maintenance.

In 2011 the project moved into two more villages, Arubot and Dandegaun. A skilled team developed from the Bhattedande project, in coordination with the management of the CHDS team, leads the project in the next two villages. Each village develops a local management committee whose members are encouraged to participate in the activities of the project, some of whom have gained employment in the project.

Healthabitat works with the villagers to plan the first stage of the sanitation project which includes discussions about the design of the toilet buildings; using a biogas digester or septic tank for waste management; the need for water and collecting water from the toilet roof and storing the water in a tank for dip flushing and hand washing; making an agreement about how the partners will work together.

Villagers access water at ten tap points located throughout the village. They gather water from these ten taps twice a day when water is released from a header tank. They fill buckets and metal vessels and carry them back to their homes. The local plumber and construction coordinator work with Healthabitat to set up water quality testing.

Water quality testing commenced and the local villagers are trained to complete the testing regularly over 12 months. Water meters are also installed to measure average daily use from three of the ten tap points located throughout the village. Plumbing repairs and modifications commenced on the first day of the project. Since then, a reticulated water supply has been put into Bhattedande village. The project partners agree to start Stage 1 of the toilet building project by constructing only two toilets, one with a biogas and one with a septic waste disposal system.

The project is managed by CHDS Nepal, using local labour and materials. This “trial” allows for all partners to gauge their ability to effectively work together, plus the villagers will have a chance to observe the process of construction, view the results, assess their appropriateness and apply any modifications if necessary for the continuation of the project.



# DISTINGUISHED SERVICE AWARD

The DSA was established to recognize the efforts of an individual or organization that has contributed to the mission of the WPC.



## **Geoff Marsh, MBE, 2005**

In 2005, the WPC EB recognized the enormous contribution of Mr Geoff Marsh MBE to the Council by awarding him its highest honour, the DSA. Appropriately, Geoff was the first recipient of the Award. He was the inaugural Chairman of the Council, and demonstrated genuine leadership and passion in the establishment and promotion of the Council, giving exemplary service to the plumbing industry both nationally and internationally.

When presenting Geoff with his Award at the New Zealand Conference, then Council Chairman George Bliss noted that Geoff exemplified the criteria for the granting of the Award. To be eligible, individuals must meet a minimum of four of six criteria determined by the Council when the Award was created. In his time as Chair (1990 – 1993, and then as an Inner Council Member 1993 – 1996) Geoff met and exceeded all of the Award criteria, which include the promotion of the profession, art and science of plumbing, improving and embedding appropriate Codes and Standards and improving the health and welfare of communities throughout the world.

Over his outstanding career in the plumbing industry, Geoff made a significant contribution to both plumbing product innovation and development as well as the promotion of the industry more broadly. In the role of Technical Director of Marley Extrusions Ltd Geoff was a prime mover in the development of innovative plastic plumbing products. Geoff made a great contribution to the development of the industry in the UK, serving as President of the UK's Institute of Plumbing (now the Chartered Institute of Plumbing and Heating Engineering). He has also been a Past Master of the Worshipful Company of Plumbers, and was Chairman of the Organising Committee for the second World Plumbing Conference, held in London in 1990. Geoff also served as member of the UK Government's Water Regulations Advisory Committee.

In 1988 he was invested by the Queen at Buckingham Palace as a Member of the Order of the British Empire (MBE) for services to the plumbing industry and today, at the age of 73, still serves the industry in many ways, including as Director, Industry Liaison at the Chartered Institute of Plumbing and Heating Engineering (CIPHE), the UK's professional body for the Plumbing Industry.



## **Bob Kreutzer, 2008**

Bob Kreutzer, who served as Chairman of the Council from 1993 – 1996, and as Deputy Chairman for the period 1990 – 1993, was presented with the Council's DSA at the World Plumbing Conference in Calgary, Canada in 2008. Bob is one of the founding fathers of the WPC and played a key role in establishing the WPC as an organisation capable of delivering its Mission.

Bob worked tirelessly to develop and foster relationships between plumbing bodies around the world and between the WPC and other international bodies concerned with world health and environmental sustainability. In particular, Bob was concerned with the role plumbing plays in preventing water borne diseases and was a driving force behind establishing and developing the WPC's relationship with the WHO. That relationship continues to thrive.

As well as working to establish a robust organisational framework for the Council, Bob was very focussed on broadening the Council's membership base to include as many member countries as possible. Bob recognized that opening up the Council to members and partnerships with other national and international bodies would be key to the WPC achieving its Mission and Objectives.

Bob has made a very valuable contribution to the Plumbing Industry within his home country of the USA as well as the international industry through his work on the WPC. At home in the USA Bob served as President of the National Association of Plumbing Heating and Cooling Contractors (PHCC) for two years in the early 1990's as well as leading the creation and adoption of organisational structure, bylaws and administrative procedures that continue to serve as the foundation of WPC activities and promotions today.

It was the PHCC that nominated Bob for the prestigious DSA. Jim Finley, President of the PHCC summed up the reasons why Bob Kreutzer is such a worthy winner of the Award "Bob Kreutzer truly earned this award given his commitment to bringing international plumbing organizations together in initiatives to protect the environment and health of all nations".





## Andy Watts ,2011

The WPC EB bestowed its highest honour, the DSA, upon Andy Watts, MBE, of the United Kingdom in 2011. Newly elected WPC Chairman GP Russ Chaney presented the award to Mr Watts during the 9th World Plumbing Conference in Edinburgh, Scotland.

Andy, who held the office of WPC Secretary from 1996 – 2008, was the third individual to be honored with the award since the WPC was founded in 1990. Andy was a driving force behind the WPC forging a close working relationship with WHO and subsequent joint publishing of "Health Aspects of Plumbing" in 2006. A critically important document that illustrates the important work done by the plumbing industry to ensure public health and safety.

A major contributor to the plumbing industry for more than four decades, Andy first gained recognition with his appointment as a staff member of the Registered Plumbers Association (RPA) in 1966. Then in 1971 he was appointed Executive Director of the Institute of Plumbing, which merged with the RPA the previous year. He served that body, subsequently known as the Institute of Plumbing and Heating Engineering and now as the CIPHE, for 35 years.

In 1994, Andy was awarded the MBE for his years of service and dedication to England's plumbing industry.

"His long standing commitment to his organization remains as a model for those of us who serve as chief executives of plumbing industry organizations," said Russ Chaney, CEO of the International Association of Plumbing and Mechanical Officials, during the award presentation. "His contributions in the United Kingdom, as well as abroad, will serve to motivate others in our industry to achieve their very best."



## Henry Hung, 2013

The Council Awarded its DSA for 2013 to Mr. Henry Hung of Hong Kong. Henry was recognized for his very significant contribution over his 12 year tenure as an EB Member of the WPC including three years as Deputy Chairman.

Notable among his achievements has been his efforts in getting the "Health Aspects of Plumbing" translated into Mandarin. He has championed the cause of Individual Membership and when the scheme was instituted, his was the first name in this category. He was the World Plumbing Conference Chairman in 1993, a hugely successful event in the annals of WPC history. It was undoubtedly the high esteem that he is held in Hong Kong that when the SARS virus hit the Amoy Gardens, Henry was asked to review the plumbing system design and suggest steps to prevent such a horrific outbreak again.

Henry is sometimes described as a quiet achiever. Managing Director of Ridgid Plumbing Services since 1990, most know him as a very successful plumbing professional. He has to his credit, landmark projects such as the Hong Kong Disneyland Resort Hotel, Hong Kong Movie City, the 108 Storey International Commerce Centre at Kowloon, World Trade Centre in Hong Kong, and East Point City to name a few.

With a Diploma in Marketing from Herriot Watt University in UK and an MBA from the University of Newcastle Australia, Henry achieved the necessary business acumen to augment his considerable technical skills. Henry is a fellow of the CIPHE, a fellow of the Royal Society of Public Health - UK and a Member of the American Society of Plumbing Engineers.

Henry is a multi-tasker and wears another hat. Wouldn't you be surprised to know that he manages a company manufacturing lighting solutions! He has served on dozens of committees set up at various times by the Hong Kong Government and is involved in policy making in training, education and arbitration related to the plumbing industry. A thorough plumbing professional, a trained manager, an educator, a communicator, a meticulous organizer, a marketing person and more importantly, a great human being! A very deserving recipient of the WPC DSA – Mr. Henry Chi-Kuen Hung.

# WORLD SKILLS MEDAL



WorldSkills International competitions continue to provide an excellent opportunity to promote the WPC. In 2013 the WorldSkills Conference was in Leipzig in Germany. A highlight of the Conference was the plumbing and heating skills competition, which had been very well organized by the Chief Plumbing Expert, Grant Stewart, with the support of plumbing experts from around the world. In 2013 24 countries participated in the plumbing and heating competition including; Iceland, Ireland, Italy India, Austria, Australia, Canada, Korea, Brazil, Chinese Taipei, Luxembourg, Switzerland, United Kingdom, Germany, France, Malaysia, Japan, Hong Kong, Netherlands, New Zealand, Vietnam, Thailand, Finland, Indonesia and the United States.

Competing plumbing apprentices earned their place at the competition in Leipzig by winning a regional and/or national competition and were then selected to represent their countries at the international event. The skills they require include the ability to read and interpret technical drawings, problem solve, and practical skills and knowledge in use of a variety of tools and equipment. Each apprentice, during the course of the competition, was then judged on their ability to work safely and install plumbing and heating pipework that they themselves had pre-fabricated. Skills using associated brackets and clips were also demonstrated and connecting and testing the completed pipe-work, plus maintain, repair or replace a specified plumbing or heating appliance. All these made for a very competitive and challenging few days for those apprentices who qualified to participate.

The WPC was represented by Chairman Russ Chaney and Secretariat Stuart Henry, with a full complement of WPC Medallions which Russ Chaney presented to all plumbing competitors and experts from around the world who attended. In the plumbing and heating competition there was a three-way tie for the Gold Medal, winners were Ciaren Coady, Ireland; Herbert Gabauer, Austria and Theo Oberhof, South Tyrol, Italy with Jun Hee Jang from Korea taking the Bronze Medal. With over 1,000 Competitors, WorldSkills Leipzig 2013 was the biggest international competition of its kind. Congratulations from the WPC to the winners and to everyone involved.



*WPC Chairman Russ Chaney presents a WPC Medallion to Dutch competitor Joost Aben*



*From left: Grant Stewart, Chief Plumbing Expert, Australia; Russ Chaney, Chairman, World Plumbing Council; Gary Hile, President, IAPMO Group. USA; Simon Bartley, President, WorldSkills International, UK; Jos de Goey, Vice – President, WorldSkills International, Netherlands; Stuart Henry, WPC Secretariat*



# EDUCATION AND TRAINING SCHOLARSHIP

Two years ago when the then Chairman Russ Chaney divided the workload of the WPC, the Education and Training Committee was one of the many committees formed. Many responsibilities came under the purview of this group including the:

- Administration of the Education and Training Scholarship;
- Expansion of the WPC efforts in connection with the CIB Wo62 Conferences;
- Continuation of our participation with WorldSkills;
- Ongoing work with the "Environmental Aspects of Plumbing"; and the
- Development of an Education and Training Symposium, primarily in the Pacific Rim

## Education and Training Scholarships

A sub-committee was formed within the main committee to work on the administration of the scholarship. This sub-group developed a scoring criterion to help determine the winner of the Award. The five major sections of the application were each assigned a weighted point value with a maximum total of 100 points. This was done to create as fair a judging process as possible. Five individuals from this sub-committee volunteered to review and evaluate the applications to determine each person's total score.

One of the major objectives of this Committee and of the WPC was to increase the awareness of and participation in the Education and Training scholarship. For a number of years, participation had been low with very few applications received. It was decided to ask the WorldSkills Organization for help by having them notify their participating country experts of the scholarship program. With their help, nine applications from nine different countries were received in 2012 in comparison to one and three in the two respective prior years.





# EDUCATION AND TRAINING SCHOLARSHIP



## Scholarship 2012

**Peter Miles, Australia**

Applications came from France, the United Kingdom, Ghana, Brazil, Uganda, Australia, India, Canada and the United States. Amazingly, five of the applicants were very close in the scoring. Peter Miles of Australia received the highest score and won the award. Likewise, the other four applicants' scores were also very close together but significantly lower than the top five. This disparity in the scores prompted some discussion about the applicants' homeland and the comparative quality of training between developed and developing countries.

Peter is the Head Teacher of Plumbing at the NSW TAFE (Technical and Further Education Commission), Centre of Learning and Innovation, St. Leonard's Campus, New South Wales, Australia. Over the past five years, Peter has worked on a project to update an existing program for the recognition of prior learning (RPL) for foreign trained plumbers. This is to determine the competency of the plumber and then design the gap training necessary for the plumber to meet the registration and licensing requirements. Peter has implemented this program with students from many foreign lands.

Peter chose to visit England, Ireland, Scotland and Wales to further his research and training since the majority of the plumbers with whom he works with, prior to being registered in Australia, come from these countries. His thought was that by visiting the training centers in these countries he would gain first-hand knowledge of both the training and the plumbing practices there. His hope is to be able to draw a comparison of the various training techniques and qualifications of the four countries and to compare them to the Australian methods in order to create a smoother and quicker process of recognition.

In Peter's report from his visit, he states "I realized that the world is smaller than I first thought, the similarities are more and the differences are less. I will be making changes to my practices in reflection on what I have learnt through my research of plumbing training and practices throughout the UK and Ireland." Peter Miles' full report, along with report of many of the other scholarship winners, of their research may be found on the WPC website under the communications tab - WPC Education and Training Scholarship.



*Peter travelled from Australia to UK*



*On his travels, Peter Miles discovered the village of Plumland in the north of England!*





## Scholarship 2013

**Lennox Shade, Trinidad and Tobago**

The discussion of the disparity of scores among the many entrants continued at the next few WPC Board meetings with the IPA making an announcement that they wished to exclusively sponsor a second WPC Scholarship for entrants from least developed and developing countries. The details of how this second scholarship will be awarded have been finalized and it will be available for the 2013/2014 award year. A great deal of gratitude must be extended to the IPA for their very generous offer.

Again, we had nine individuals apply for the 2013 Award from six different countries: Canada, Fiji Islands, Brazil, South Africa, Trinidad and the United Kingdom. The scoring results were very similar to last year with the top four entrants grouped very close together, two in the middle range and three at the lower end. Two of the three applicants were from what would be considered least developed or developing countries. Now, with two consecutive years of a great disparity in scores for those applicants from developed with those from developing countries it is very apparent that the gracious offer from our friends at the Indian Plumbing Association will be put to good use and will as we say "level the playing field" for all of the applicants.

This years' Award went to Lennox Shade from Trinidad. Lennox began his apprenticeship as a plumber in 1975 and has almost 40 years experience in the plumbing and plumbing training fields. He has a Bachelor of Science (Summa Cum Laude) and a Masters Degree from Andrews University in the United States. Lennox currently is the Senior Plumbing Instructor at the National Youth Development and Apprenticeship Center (Presto Praesto Youth Camp), Trinidad, West Indies.

Lennox will be visiting Germany to study their vocational education and training system to further his current research project. He mentioned: "My current research project is concerned with plumbing students' vocational identity formation and how it can become the focus throughout training to enhance all students' chances of completing their training in school and their subsequent lifelong commitment to the plumbing practice in the future. This goal is important in the local plumbing environment where fewer new entrants are coming into the vocation, older workers are retiring and a shortage of manpower in this vital skill area exists and is projected to extend in the future. All this is occurring at a time when deaths, diseases and other less traumatic yet unheard of experiences resulting from water related activities are increasing while the status and expectation of plumbers have been upgraded by their designation by the WHO as guardians of the environment."

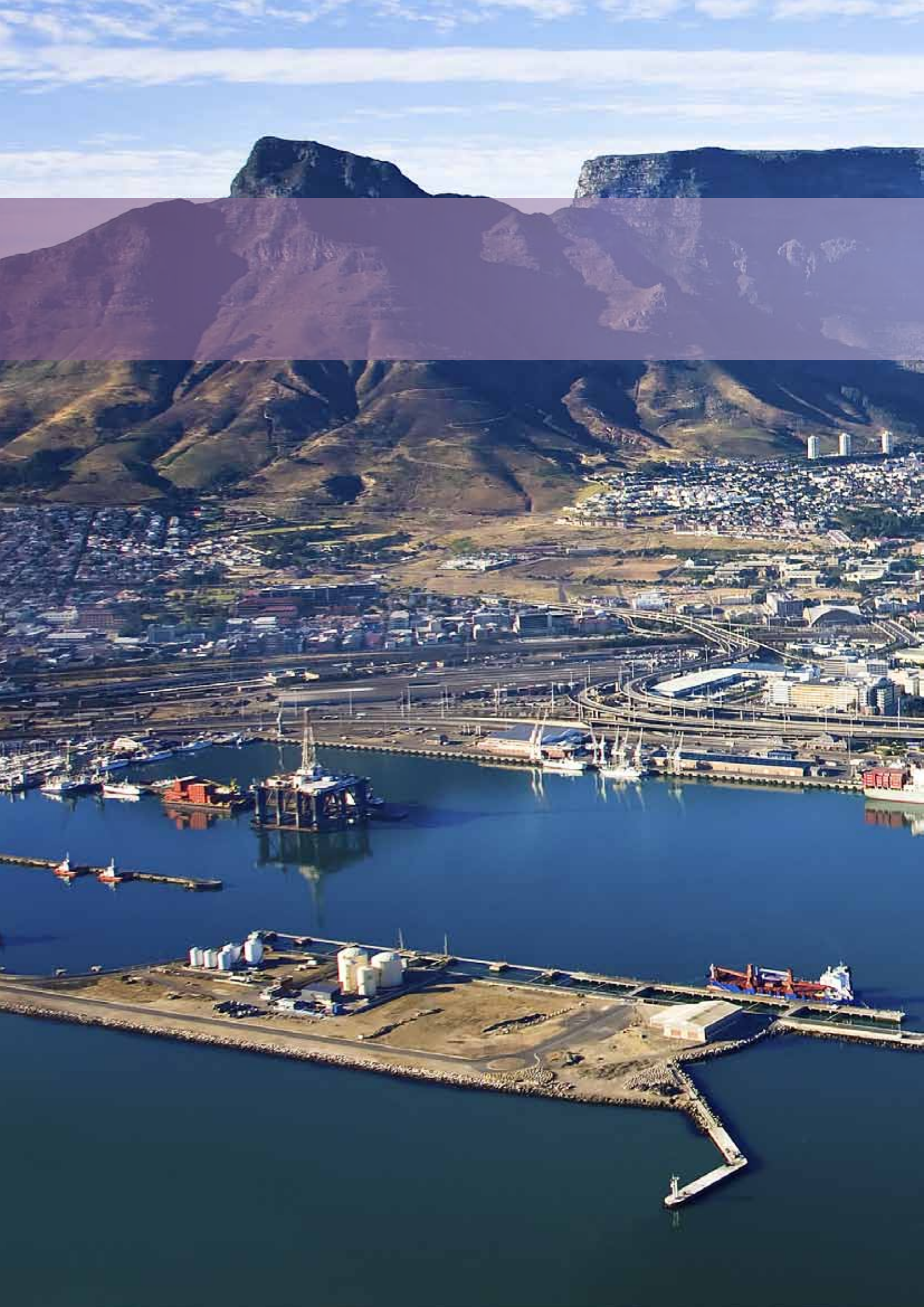
It will be satisfying to see the report of his visit to Germany and how he will use what he learned and saw to enhance his project.



*Lennox will be travelling from Trinidad and Tobago to Germany as part of his scholarship*











# CONFERENCES



# 10TH WPC CONFERENCE



## WPC 2013 – A Global Gathering in India

India is well on its way to becoming an economic powerhouse, but like in most developing nations, environment, health and hygiene are major concerns. WPC 2013 focused on these three concerns as the central theme for deliberations. The aim of the Conference was to focus attention on plumbing as an integral part of the construction business, directly affecting the health of a nation. The three Technical Sessions covered different aspects of plumbing, sanitation, education, supply-chain management and lack of sufficient professional expertise and coordination among different governmental bodies.

A brief overview of events follows.

## Inaugural Session

The Conference hall was packed to capacity with 600 delegates from different parts of the world including Australia, China, Scotland, Germany, UK, Canada, Poland, New Zealand, Switzerland, UAE, USA, Singapore and South Africa and parts of India.

In a short ceremony, Robert Burgon, CEO, SNIPEF – Scotland, the host of the 9th World Plumbing Conference, held in Edinburgh, handed over the WPC Roll of Honour to the host of this 10th World Plumbing Conference, Sudhakaran Nair, in his capacity as the President of the IPA.

Sudhakaran Nair, in his opening address extended a warm welcome to everyone. He stressed the need for stringent regulatory and administrative checks to ensure sanitation and health of the people. He underlined the urgent need for strong support from the government to spread plumbing education in India and added that "A Plumber is a nation's health worker and this conference is being held to let India and the world better understand the role of the plumber for a healthy society,"

In his Special Address, Russ Chaney, Chairman of the WPC, pointed out that India has a huge opportunity in the plumbing sector and can emerge as a world leader. Russ urged the Indian plumbing industry to develop innovative technologies as plumbing is directly related to health. "Sanitation of 1.2 billion people is in the hands of plumbers of the country and India has to raise the bar on the safety of plumbing," he said.



*The World Plumbing Conference 2013 was inaugurated by Guest of Honour Mili Majumdar.*





## IPA Felicitations

2013 marked IPA's 20th Anniversary. To commemorate this milestone, IPA felicitated three individuals who have made invaluable contributions in building this great institution, through their vision and efforts. Three stalwarts, S. G. Deolalikar, Nariman Nallaseth and Russ Chaney were honoured by the Chief Guest T. K. A. Nair.

This was followed by the recognition and felicitation of three former chairmen of WPC, Stuart Henry (2002 – 2005), George Bliss-III (2005 – 2008) and Robert Burgon (2008 – 2011).



T.K.A. Nair, in his Inaugural Address, talked about the importance of plumbing codes. "The construction sector is booming and rapid urbanization has not come without a cost," he said. "Plumbing Codes and their implementation are important for laying the foundations for green technology." He agreed that in spite of India having the codes and the expertise, the implementation was a long way off. "We have to focus on research to develop alternative materials, taking advantage of the huge progress in science and technology. It will take years to retrieve what we have lost but we can make our lives better with the help of research," he added.



# 10TH WPC CONFERENCE

## Technical Session - I



### Session Chairman

Elmar Esser  
ZVSHK  
Germany

### Speakers

Ar. Karan Grover, India  
Henry Hung, Past Deputy Chairman, WPC  
Dr Sudarshan Iyengar, Vice Chancellor, Gujarat Vidyapeeth, India



As the world population continues to grow, and with most of that growth predicted to begin developing countries, water and sanitation will be at the forefront of the challenges facing the world. In this First Technical Session, the role plumbing can play in helping address some of these major challenges was considered from several perspectives. The Session explored not only the fast growing world population but also the increasingly unequal distribution of the world's water resources between developed and developing countries. Also discussed was the role innovative product design can play in driving sustainable outcomes, and the importance of designing for sustainability. The role that good, safe and reliable plumbing plays in disease prevention and management, especially containment, was also discussed.

## Technical Session - II



### Session Chairman

Richard Prospal  
Past President, American Society  
of Plumbing Engineers  
USA

### Speakers

Steve Brown, Institute of Plumbing South Africa, South Africa  
Ron George, Plumbing Consultant, USA  
Prof Lynne Jack, Heriot Watt University, Scotland  
Aabid Surti, Drop Dead Foundation, India



The Second Technical Session examined water and sanitation challenges ahead for both the developing and developed world. In particular, the session looked at the issue of water wastage in the developed world and the important role skills development, training and product innovation play in reducing wastage. Emphasis in the Session was on the need to build, retain and embed a suitable level of plumbing expertise within developing economies, and the role training and standards development play in achieving that. The link between good plumbing and disease management was again a theme, this time focussing on preventing the spread of deadly pathogens like legionella. Maximising the contribution of academic research to environment, health and hygiene in understanding plumbing issues was also discussed.

## Technical Session - III



### Session Chairman

Shayne La Combre  
Plumbing Industry Climate  
Action Centre  
Australia

### Speakers

David Viola, IAPMO, USA  
Prof Mala Rao, University of East London  
Dr. Pawan Agarwal, Mumbai Dabbawala Education Centre, India  
Dr. Madhav Chithale, Water Management Expert, India



In the Third Technical Session, the role of plumbing in meeting global water and sanitation challenges was explored in terms of education, training and skills development; and innovative product design and development. The importance of active community level engagement and awareness raising was emphasised, as was the importance of a well trained plumbing workforce and fully developed codes and standards. The extent to which the need for more and improved sanitation in large parts of the developing world is growing was discussed, as were the health challenges posed by inadequate sanitation systems. In a context of climate change, the need to change historical approaches to water challenges was discussed.







# 11TH WPC CONFERENCE



## Cape Town, South Africa

The 11th WPC Conference (WPC 2016) will be held in Cape Town, South Africa from the September 14-16, 2016. The event will be held at the Cape Town International Conference centre (CTICC) a state of the art centre situated in the heart of Cape Town.

The IOPSA won the bid to host this event at the WPC Conference held in Edinburgh, Scotland. A Committee and Organizer was promptly appointed to drive WPC 2016.



- The Conference theme will be Regulations for Sustainable Plumbing – a case for International Standards, the platforms being: Water – Environment – Energy – Health
- It is planned that there will be plenary as well as parallel sessions enabling delegates to participate in their speciality areas as well as benefit from the plenary session where report back from the breakaway sessions will be an essential part.
- “Doing Business in Africa” will be a briefing workshop on the practical ways of working and obtaining business growth in Africa.
- The functional theme will be: “Where are we now and where do we want to be?”





## Welcome to beautiful Cape Town

You will never be bored in Cape Town. A city where the ocean and the mountains are as much a part of the city as its people, the opportunities to explore will keep visitors to this cosmopolitan city entertained and excited.

The oldest city in South Africa, Cape Town's cultural heritage spans 300 years, with diverse colonial influences and traditional cultures coming together to fascinate visitors with a rich experience. Famously known as the place of Nelson Mandela's imprisonment, Robben Island is situated just off the city's coastline.

Other famous tourist attractions include Table Mountain and the internationally acclaimed Kirstenbosch Botanical Garden. Wine lovers will find that Cape Town has much to offer when it comes to fine wines, and visitors can experience Cape Town's beautiful landscape when going on a wine tasting tour. The Victoria and Alfred Waterfront is a unique experience where culture and high-end shopping come together in one breathtaking location, offering world-class accommodation and efficient transport methods.

Tourism routes such as the Cape Care Route, showcases sustainable development by taking tourists to destinations that highlights projects where people are actively accepting the responsibility of caring for the environment and others. This initiative promotes sustainable development in a practical way, while reaching the hearts and expanding the attitude of local and international visitors in a way that will unite and empower all the participating communities.





# 11TH WPC CONFERENCE

## What will make you want to visit this Conference?

The local organising Committee wanted this event to be different so as to offer delegates a variety of concurrent activities that would showcase plumbing and water at different levels. In line with the WPC's own aims and objectives the interlinking of a Conference with plenary and parallel sessions together with a WorldSkills competition to select the SA representative for WorldSkills in 2017 made huge sense. With Africa becoming a growth continent a workshop on 'Doing Business in Africa' is planned and to keep activity going there will be an international exhibition as well as a drawing competition for children based on the theme, 'Water is Life'.

By 2016 much will have changed in doing business in Africa. There are 72 countries, at the moment, in Africa that have indicated a trade free zone policy as well as making access to business much easier and effective. Other changes are planned and the briefing will include policy makers and business as we will be seeking a positive outcome.

With the WPC highly committed to International WorldSkills, South Africa will be running the National WorldSkills competition during WPC 2016 when the South African Champion will be selected. This person will represent SA at the WS Competition in 2017.

A full WPC Exhibition will be held alongside Conference which will be represented by the main international brands as well as this country's leading local manufacturers, most of whom are exporting to the world.

In keeping further with the WPC aims children will be involved with both the school and winning entry benefitting from the monetary prize. The drawings selected for the final round will be used by WPC members should they wish to promote 'Water is Life' and hygiene/sanitation.

And finally, the organising committee has put in place a selection of travel packages, to suit all pockets, for delegates and partners to enjoy the most wonderful country in the world, South Africa.

WPC 2016 offers education, a variety of activities to maintain interest, a holiday opportunity as well – so you have it all in one.

A must for the plumbing industry is WPC 2016.

## Key Dates

<b>2014</b>	January	First call for papers and abstracts.
	July	Second and final call for papers and abstracts.
<b>2015</b>	January	Presenters advised of acceptance of papers.
<b>2016</b>	May	Complete papers for publication.
	14 September	WPC Triennial Meeting. All day meeting at CTICC.
		OPSA meet and greet/welcome cocktail party at CTICC.
	15-16 September	11th World Plumbing Conference at CTICC.
	14 – 16 September	Drawing competition judging and selection at CTICC.
		WorldSkills competition at CTICC.
	16 September	"Doing Business in Africa" briefing workshop at CTICC.
		Gala Dinner at Westin Hotel opposite CTICC.

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# 12TH WPC CONFERENCE



## Melbourne, Australia

Given the important work of plumbers and the contribution plumbing systems make to our community health and amenity, can there be a more important and vital gathering than the World Plumbing Conference – Melbourne and The Plumbing Industry Climate Action Centre (PICAC) will highlight this on a world stage in 2019.

Hosting this conference will welcome hundreds of like-minded plumbing industry delegates to Australia to witness the technological advancements continually being made, particularly in the areas of sustainability, HVAC, fire protection and building management systems.

PICAC's facilities are pre-eminent amongst training providers and include the Fire Protection Centre of Excellence, the Occupational Health and Safety Centre of Excellence, a demonstration Green Plumbing House, world class reticulated water systems, the newest technology in water and energy efficiency. By showcasing the world's very best leading edge technology, we are training the plumbers of tomorrow, today.





## Theme and Programme

- 'Plumbing for the future of society'
- 'Today's Plumber – Ready for tomorrow's emerging trends'
- 'New technologies readying for tomorrow's world'
- 'Today's technologies, preparing for future hazards'

The role of plumbers and the contribution plumbing systems make to our community health and amenity are vital. The provision of safe and effective water supplies and sanitation systems is one of the great public health achievements of the last century. Plumbers play a significant role in maintaining the integrity of water supplies and sanitation systems.

There are challenges ahead for the plumber who must continue to remain abreast of new public health risks, including the impacts emerging diseases, new technologies and climate change. These 3 areas would cover the basis of our theme and the content of the technical sessions.

### Emerging Diseases

New diseases are always being discovered. Emerging airborne viruses are of particular concern as they are so easily transmitted through increased international travel, greater use of air-conditioning systems, increasing populations and growing population densities. Recent examples are Sudden Acute Respiratory Syndrome (SARS), Swine influenza and Avian influenza. Whilst these viruses are not strictly waterborne diseases, their spread is assisted by poor sanitation facilities and badly installed or inappropriately designed plumbing and air-conditioning systems.

### New Technology

Technology and technological inventions have come as a blessing to thousands of people throughout the world. The plumbing industry is one of the beneficiaries of these technological advancements. Today, there are many new tools and technologies that have made it easy for the plumbers to do their work more effectively.

### Climate Change

There is no doubt that climate change, with its predictions of rising temperatures and an increase in severe weather events, will have an impact on the way disease-causing micro-organisms and humans interact.

In particular, reduced water supplies during times of drought have led to water conservation efforts, such as the recycling of wastewater, the use of alternative water supplies and the capturing of rainwater for domestic purposes. There are inherent public health risks associated with these types of plumbing systems.



## Introducing Melbourne - the World's Most Liveable City and Australia's Business Events Capital

Melbourne, the southern-most city of mainland Australia is rich in aesthetics, with its beauty enhanced by the meandering Yarra River, immaculate parks and gardens, public art, classical buildings and innovative design.

Melbourne's charm is characterized by its enchanting laneways, stunning waterfront precincts and trendy neighbourhoods, and provides an endless choice of shopping hot spots and culturally-diverse, award-winning restaurants, cafés and bars in weird and wonderful locations.

Home to the world-celebrated Spring Racing Carnival, featuring the Melbourne Cup, the Australian Open Tennis Championships, the Boxing Day Cricket Test and the Australian Formula 1™ Grand Prix, the city also possesses a year-round calendar of annual festivals and shows such as the Melbourne Food and Wine Festival, Melbourne International Flower and Garden Show and Melbourne International Comedy Festival.

For those wishing to escape the city, regional Victoria is idyllic. Visitors need only drive for little more than an hour in almost any direction to discover a myriad of experiences; from extensive coastline, spectacular scenery and Australian wildlife sanctuaries, to boutique wineries, relaxing day spas, and world-class golf courses.

Aside from Melbourne's unique leisure capabilities, the city is also widely regarded as one of the world's premier business events destinations, as well as Australia's knowledge, research and innovation capital; the destination where global thought leaders, industry and academia all come together.

The city's 'convention district' spans four kilometres and boasts Australia's highest concentration of conference facilities, with almost 198,000 square metres of conference space and more than 15,000 hotel rooms, providing accommodation options to cater for all budgets.

The pinnacle of the city's business events infrastructure is the state-of-the-art Melbourne Convention and Exhibition Centre, offering the most flexible, integrated and comprehensive meetings facilities in the Southern Hemisphere.

The city's accessibility is also a major drawcard for global business; with Melbourne International Airport open 24 hours, curfew free and servicing 24 leading airlines.

When it comes to conferences, congresses, meetings, incentives and corporate travel, there's no denying Melbourne has just the right mix of ingredients to ensure that every business event is a resounding success.









# HEALTH AND SUSTAINABILITY





# HEALTH AND PLUMBING



Access to safe drinking water and basic sanitation is crucial to public health, and is vitally dependent upon good quality plumbing. This key link between good plumbing and good public health outcomes is what drives the WPC in its promotional activities. The link between health and plumbing is reflected in the co-operation between the WPC and the WHO.

From the time the WPC was established, and due in part to the promotional work of the Council, much progress has been made in terms of increasing the number of people across the world with access to safe drinking water and sanitation. However, as is evident from the 2013 UN data which is discussed in detail below, there is still much work to do, and the WPC has a key role to play.

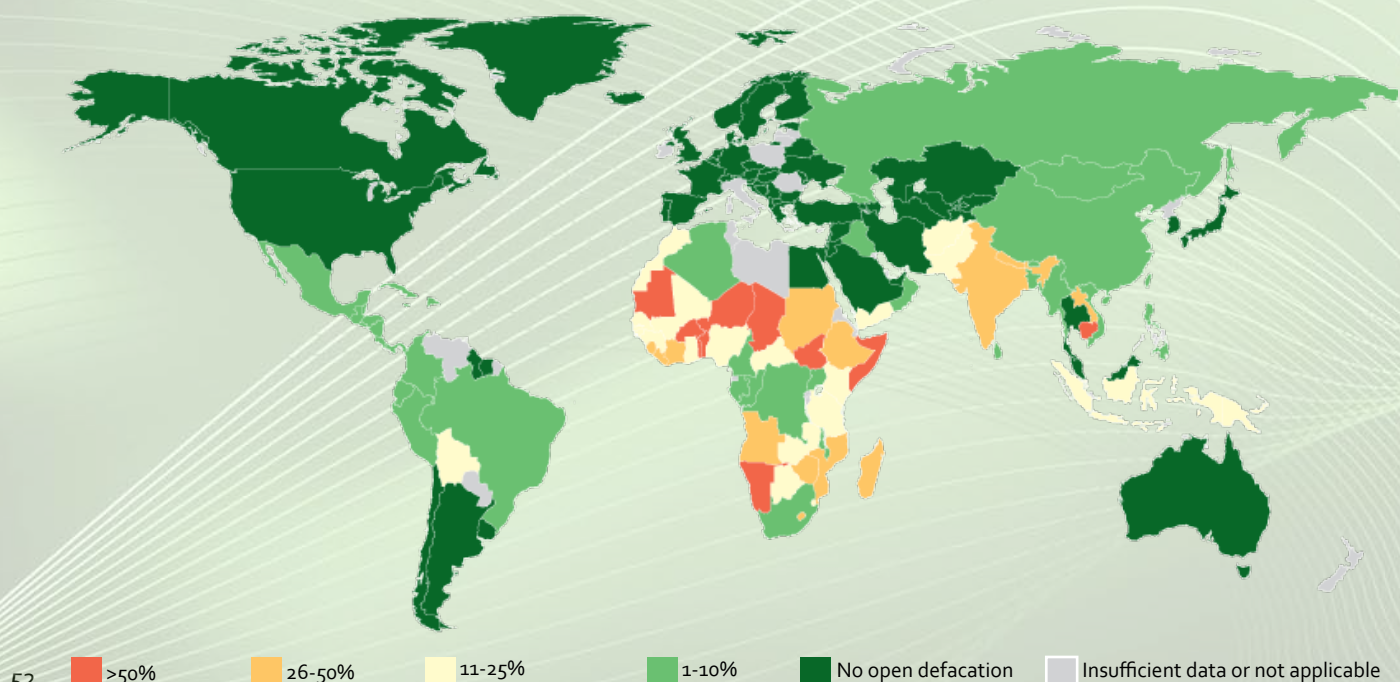
At the dawn of the new millennium, more than 200 world leaders and international organizations committed to eight Millennium Development Goals (MDG) focusing on such key issues as poverty, hunger, education and child mortality rates. However, perhaps none was more important than MDG 7, which called for the number of people without sustainable access to safe drinking water and basic sanitation to be cut in half by 2015.

The WHO/United Nations Children's Fund (UNICEF) Joint Monitoring Programme (JMP) for Water Supply and Sanitation is the official United Nations mechanism tasked with monitoring progress toward this goal. In 2013, the JMP released an update that includes country, region and global estimates for the year 2011. The 2013 update adds the results of 230 surveys to the 2011 update – which presented 2010 estimates – and brings the total number of surveys in the JMP database close to 1,700.

In 2011, 64 percent of the world's population relied on improved sanitation facilities. Since 1990, almost 1.9 billion people have gained access to an improved sanitation facility. Unfortunately, the world remains off track to meet the MDG sanitation target, which requires reducing the proportion of people without access from 51 percent in 1990 to 25 percent by 2015. The most progress has been made in Eastern Asia, where sanitation coverage increased from 27 percent in 1990 to 67 percent in 2011. This amounts to more than 626 million people gaining access to improved sanitation facilities over a 21-year period.

Open defecation rates declined globally from 24 percent in 1990 to 15 percent in 2011. In absolute numbers, this signifies a drop of 244 million people to 1.04 billion in 2011. The decline in the population practicing open defecation has differed from region to region. Eastern Asia, Southeastern Asia and the Latin America and Caribbean regions have seen a steady decline since the JMP's earliest measurements describing conditions in 1990. In Southern Asia, the population practicing open defecation peaked around 1995, after which it declined. Only in sub-Saharan Africa is the number of people defecating in the open still increasing.

**Figure 1: Proportion of the population practising open defecation in 2011**







By the end of 2011, 89 percent of the world's population used an improved drinking-water source, and 55 percent enjoyed the convenience and associated health benefits of a piped supply on premises. An estimated 768 million people did not use an improved source for drinking water in 2011, including 185 million who relied on surface water to meet their daily drinking-water needs. Urban drinking water coverage has remained high over the past two decades, and currently only 4 percent of the urban population relies on unimproved sources. However, in spite of the high urban drinking-water coverage rates, issues of service quality remain. Supplies are often intermittent and this increases contamination risks. Of the 2.1 billion people who gained access since 1990, almost two-thirds, 1.3 billion, lived in urban areas. By the end of 2011, 83 percent of the population without access to an improved drinking-water source, lived in rural areas.

More than 70 percent of the global progress made in access to improved sources of drinking water has been achieved through gaining access to piped drinking water on premises. More than two-thirds of the 1.5 billion people who gained access to piped supplies at home, live in urban areas.

In May 2011, the WHO and UNICEF convened an initial consultation in Berlin with broad stakeholder representation to begin the process of creating proposals for post-2015 targets and corresponding indicators for water, sanitation and hygiene.

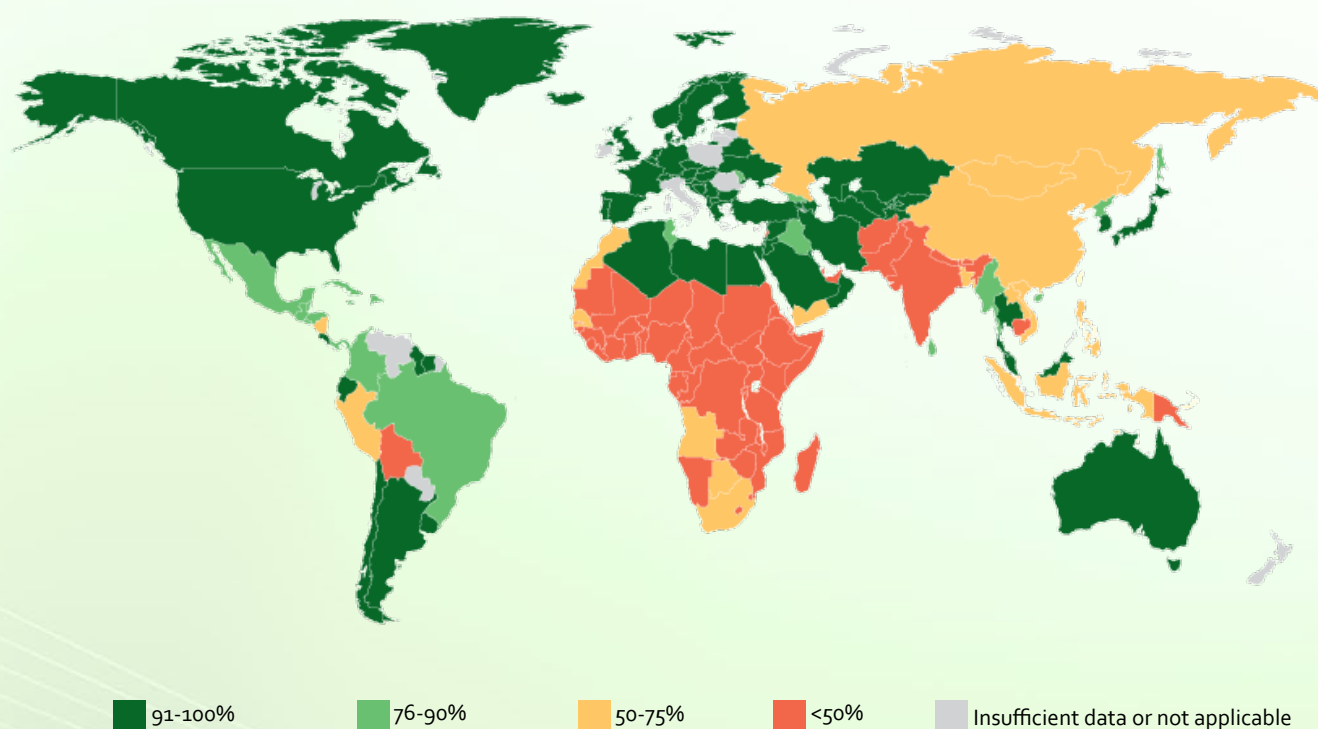
Four working groups were created as a result of the Berlin meeting: Water Supply, Sanitation, Hygiene, and Equity and Non-Discrimination. During the next year and a half, the working groups developed proposals for targets and indicators, which were consolidated into a document to be presented during a second consultation at The Hague in December 2012.

The proposed targets address the objectives of progressive realization through increasing the numbers of people using services, reducing inequalities, increasing service levels, driving progress in schools and health centers as well as households and achieving safe, sustainable, universal coverage.

The targets include interim and final targets and indicators and have received broad support among experts in the sector.



Figure 2: Proportion of the population using improved sanitation in 2011



Source: WHO

#### Target 1

By 2025, no one practises open defecation and inequalities in the practice of open defecation have been progressively eliminated.

#### Target 2

By 2030, everyone uses a basic drinking-water supply and hand-washing facilities when at home; all schools and health centers provide all users with basic drinking-water supply and adequate sanitation, hand-washing facilities and menstrual hygiene facilities; and inequalities in access to each of these services has been progressively eliminated.

#### Target 3

By 2040, everyone uses adequate sanitation when at home; the proportion of the population not using an intermediate drinking-water supply service at home has been reduced by half; the excreta from at least half of schools, health centers and households with adequate sanitation are safely managed; and inequalities in access to each of these services have been progressively reduced.

#### Target 4

All drinking-water supply, sanitation and hygiene services are delivered in a progressively affordable, accountable and financially and environmentally sustainable manner.

In March 2013, Deputy Secretary-General Jan Eliasson called upon the world to increase global efforts to accelerate progress toward the MDG sanitation target, which is among the targets for which progress has fallen furthest behind. In particular, he called upon governments, civil society, the private sector and UN agencies to pull together and help end the practice of open defecation by the year 2025. While some nations still have a rather large proportion of the population practicing open defecation, others have reduced the practice to only a few percent.



# SUSTAINABILITY AND PLUMBING

Sustainability is a word, a concept, which is used in a variety of ways to describe a range of actions and approaches. It can have different meanings in different settings and can be applied to a range of things. For some sustainable could mean simply maintaining the status quo, in other circumstances it is used to describe anything that is done with the environment in mind. Sustainability is often discussed in terms of energy efficiency and low emission generation like solar, as well as water conservation and re-use. Less often in public policy discourse is sustainability linked directly with plumbing. Good plumbing is vital to and inextricably linked with sustainability - especially in a changing global climate context.

The definition of sustainability that aligns with how it is intended in the context of plumbing, is this one borrowed from the UN:

*"sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs"*

Brundtland Commission of the United Nations on March 20, 1987

Meeting the needs of the present without compromising the needs of the future is becoming increasingly challenging, particularly in less well developed economies. There is an ample and growing body of evidence to indicate that the world's climate is changing and that water is becoming increasingly scarce. Energy is becoming more costly to generate and utilize, both in monetary and environmental terms. Temperature and rainfall patterns are changing and becoming more difficult to predict. Demand for water across the globe – for sanitation, domestic consumption, industry, agriculture and the environment– already outstrips the available supply; and the gap between the demand for and supply of water is wide and growing. Some credible forecasts anticipate an increase of as much as 50 – 60 per cent in world demand levels for water by 2050. When combined with a reduction in the available supply of fresh water, and strong competition for access to the available resource, water scarcity and variability means that effective and efficient water management has never been more crucial.

Not only is water more scarce and rainfall less predictable, but the changing weather systems have also given rise to an increase in the frequency and intensity of major storms, hurricanes and other extreme weather events. These significant weather events, of the kind the world recently witnessed when Hurricane Haiyan hit the Philippines in November 2013, affect the availability, quality and distribution of water to millions of people. Water scarcity, water competition, more intense and more frequent extreme weather events make providing basic sanitation and clean water to millions of people in developing countries, and safeguarding the sanitation and water systems in developed economies, increasingly challenging.





Water is not the only resource that is less available than the world is demanding and increasingly costly to access. Energy, in particular electricity, is environmentally costly to generate in the quantities demanded and as a result, increasingly costly for consumers.

We live in a world where water and energy - the catalysts for development in the developing world and the foundation stones of developed economies – are less available than the population is demanding and the environment can sustain. It is important that we understand the depth and complexity of these water, energy and climate challenges. It is equally important however that we - the WPC, Members, Stakeholders and water and plumbing industry professionals – do not be daunted or discouraged by this challenge. It is important that we, as industry and sector leaders, in developing and developed economies, continue to lead the way.

It is important that we must continue to undertake research and development that will help us understand these changing circumstances, and identify, develop and embed sustainable solutions to the challenges we face together.

It is important that we continue to advocate and educate, to influence and inform policy thinking and encourage infrastructure and training and skills and investment in plumbing and water and energy efficiency wherever we can. We need to encourage governments, industry leaders and policy makers around the globe to develop and refine their strategies to adapt to the water and energy related challenges of the changing climate. We need to constantly identify and share ways to do more with less, to find better and more innovative ways to meet the needs of the present without compromising the ability of future generations to meet their own needs.

It is important that we continue to take positive steps forward. There is much activity already underway to be positive about. The role for the WPC going forward is to identify what is working and encourage more of the same. For example, throughout the developed world, particularly in more arid places like Australia and parts of the US, integrated water management plans are in place. A variety and combination of input and output measures are utilized to manage both the demand for and supply of water. Water management strategies that include innovative ways to control or limit access to water, for domestic, industrial or agricultural consumption are becoming more commonplace around the globe. These types of measures should be encouraged. Providing financial incentives to use less water and energy and limiting use by quantum or access times can help manage demand. Water reclamation, reuse, recycling and even creation – through the construction of de-salination systems or the like – should be considered positive features of water and energy management strategies.





These global level actions are necessary and important, and the WPC will continue to work with member countries, from the developed and developing world, to encourage the development of adequate and robust water and sanitation infrastructure, and to better manage water. Through advocacy, awareness raising, and influencing high level policy deliberations, the WPC will continue to explain and communicate the links between good water and sanitation infrastructure and systems and environmental sustainability.

In order for the sustainability benefits of plumbing to be fully realized, it is increasingly apparent that the world needs to train more plumbers. And we need to train them not only in the core fundamentals of traditional plumbing and sanitation, but to equip them to take advantage of the array of water and energy saving technologies and appliances available on the world market today. A highly trained and innovative plumbing workforce; one that can advocate for sustainability and drive the uptake of high efficiency plumbing systems and components; is crucial to finding and embedding sustainable solutions.

Today's plumbers need to be trained to properly install and maintain things like in home heating and cooling systems, hot water heating, solar hot water, water recycling including rain water tanks, and greywater systems. As well as knowing how to properly fit waterless urinals, dual flush toilets and low-flow showerheads, modern plumbers are installing blackwater treatment systems and connecting entire homes to rainwater systems. Modern plumbers might be called upon to design and install of cooling equipment that can cope with more extreme conditions and operate with more environmentally sustainable refrigerants; or to redesign sewerage systems to cope with lower water content of sewage as the water efficiency of toilets and other fixtures improves. Plumbers are the front line in the ongoing battle against water and energy inefficiency and plumbing education and training needs to be of high quality and sufficiently contemporary and flexible to equip the plumbers of tomorrow to wage that battle.

The world's climate is changing. Water is increasingly scarce, and energy increasingly costly to produce and use. The extent to which the developing world realizes its development potential, and the developed world maintains its living standards, is increasingly dependent upon how water and energy is managed. Plumbers are, and increasingly have the potential to be, at the forefront of energy and water management and therefore crucial to the world's sustainable development.





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# WPC SERVICE RECORDS



# THE BEGINNINGS OF THE WPC



*An invitation to each country representative to attend the first meeting of what would become the WPC. A photograph of the representatives of each country at this meeting.*



*A page from the 2nd World Plumbing Conference written by Geoff Marsh, referring to the way that countries were heading towards the formation of a WPC.*

The WPC has been in existence for nearly a quarter of a century. Today the Council is a thriving, resilient, growing and increasingly relevant organization, as detailed in the previous pages of this Handbook. The WPC is positively impacting public health and environmental sustainability around the globe.

This inaugural WPC Handbook presents a timely opportunity to reflect on how WPC came to be, how far the Council has come in its short history, what it has achieved so far, and what are the key challenges it faces going forward.

It was back in 1985 when the Australian Plumbing Contracting Industry hosted the First World Plumbing Conference and Exhibition in Sydney. Fourteen countries were represented at that first Conference which was a great success. The atmosphere at the Sydney Conference was so positive and the delegates so enthusiastic and committed to work hard together to improve water safety and sanitation practices around the globe, that it was very clear to everyone in attendance that there was much to be gained by an international co-ordinated approach to plumbing and water safety.

Connections and relationships made in Sydney, between countries and between people, between the developed and developing world and between industry leaders, manufacturers and suppliers generated an unstoppable momentum. The Sydney Conference began an international conversation that is still going today.

In 1990 the United Kingdom plumbing, water, and gas industries hosted the Second World Plumbing Conference and Trade Exhibition in London. The London Conference was attended by some 1,200 delegates, representing more than 30 countries.

In the lead up to London 1990, much discussion had taken place between delegates in different countries about the formulation of a Council to steer the activities and ideas generated by the Conference process. Initially this was to be the "World Plumbing Conference Council", which then became the Inner Council, and later the EB. Mr Geoff Marsh MBE, from the United Kingdom was invited to Chair the first EB, which brought together nine of the world's most passionate and committed champions of plumbing's role in protecting public health and the environment. That first EB comprised representatives from the UK, USA, Canada, Hong Kong, South Africa, Sweden and Australia.



Geoff points out that all the enthusiasm and determination to make a difference to the health of people and the environment all around the world needed to be supported by an entity that was well organized, with a set of clear objectives and a robust legal and financial governance framework. That first EB he chaired set about building that foundation, and not to single EB Members for credit, the nature of those early activities meant that the efforts of Bernard Bateman, MBE who was Secretary, and of Derek McCorquindale, C.A.E. from Canada, who as Treasurer had carriage of matters financial and legal, were particularly important.

But, there were also many challenges for the new body, mostly related to distance and communications. The instant and reliable communications we all now enjoy over the internet did not exist then, and so communication and co-ordination was a challenge. The WPC was able to work through and overcome these challenges with good will, hard work and co-operation.

When asked to reflect on what the early hopes and aspirations of the first EB were, and how those initial ideas have translated into the WPC of 2014, Geoff was pleased to share that his expectations have been met and exceeded. The intention was for the WPC to become "an international exchange of information, knowledge and ideas about water, sanitation and plumbing", and that is exactly what the WPC is today.

A passionate believer in the power of communication and relationships, Geoff pointed to the 10 successful World Plumbing Conferences, the latest in India drawing 600 delegates from dozens of countries, as a marker of success. He cited the establishment and embedding of World Plumbing Day as a key date on the international calendar and the very successful international scholarship program as other key achievements. He noted that the first EB had a broad objective of building links with the WHO and is extremely pleased that the WPC is a recognized WHO NGO and of the outstanding and important joint WPC/WHO publication "Health Aspects of Plumbing".



*Geoff Marsh greeting the Hon Colin Moynihan, Minister for Sport and Under-Secretary of State for Environment who opened the Conference's Plumbing Exhibition.*



*Fireworks on the Thames celebrating end of the Conference*

*The unveiling of the Plumber's Apprentice celebrating 400 years happened at Cannon Street Station in the middle of London, England on Thursday 6 October 2011*







**The Worshipful Company of Plumbers**

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**PRESS RELEASE**

**Award of St. Michael Medallion**

During a Reception of delegates attending the Second World Plumbing Conference and Exhibition in the Barbican on Wednesday 30th May 1990, the Minister of Health, Mrs. Virginia Bottomley, MP, made a Special Award on behalf of the Worshipful Company of Plumbers.

The Company decided to honour the Federated Master Plumbers of Australia by presenting them with the Company's St. Michael Medallion. Such Awards are rarely made, being limited to individuals or organisations who have made an outstanding contribution to the advancement of plumbing. In this instance the award was made in recognition of the Federation's initiative and success in arranging the first ever International Plumbing Convention and Exposition in Sydney Australia between 19th and 21st September 1985. In making the Award on behalf of the Company, the Minister of Health paid tribute to the Australian Federation for their unique contribution to the development of international cooperation in plumbing throughout the world. In her speech Mrs. Bottomley reminded the audience that the major improvement to health in the past century, and in particular in the third world, was made by plumbers; the effect of pure water and improved sanitation had been the biggest contributor to reduced death rates.

Mr. Bill Watson, President of the Federated Plumbers of Australia, in accepting the medallion, paid tribute to all those who had contributed to the First World Plumbing Conference and especially the Master Plumbers and Mechanical Contractors of New South Wales, the host State.

1.6.1990

*Press Release referring to presentation of St Michael Medallion to Master Plumbers of Australia, 1990.*



*Presentation of St Michael Medallion to Master Plumbers of Australia, 1990.*

But, like plumbing and water management systems themselves, the WPC needs to be maintained and improved if it is to remain effective. As Geoff pointed out, world population trends indicate that in many developing countries in particular, once rural dwellers are being drawn to city and urban centres, placing ever increasing pressure on plumbing and sanitation systems. He makes the cautionary point that outbreaks of diseases like cholera or other water borne pathogens can occur quickly if plumbing and sanitation systems are inadequate. As global weather patterns change, and water becomes increasingly scarce and rainfall less predictable, the need to use effective and efficient systems of water collection, distribution and quality control are more important than ever.

Of all the very important things the WPC needs to continue doing, ensuring the next generation of plumbers have the necessary skills and knowledge to preserve public health is most crucial. As Geoff points out, it is one thing to know plumbing is vital to life; it is another thing to see that message translate into high quality plumbing systems are fitted and maintained by thoroughly trained plumbers. The WPC needs to continue to be that "information exchange", a place where the best ideas in plumbing standards, education and training, techniques and materials can be showcased and the knowledge passed on to grassroots operators. He notes that best practice in industry regulation and oversight is an area where there is still much to be done, and counts the regulatory frameworks in places like Australia and Canada as examples of best practice the world could model in the ongoing quest to mitigate disease risk.

From what began in Australia and was consolidated in London in 1990, the WPC has proven to be a necessary and enduring entity. The world as whole owes a debt of appreciation to the founding fathers of the WPC. It is vitally important that the WPC does all it can, through information sharing and scholarship programs amongst other things, to ensure the next generation of leaders prepared to "give their best self" and lead the WPC in its efforts to preserve the health of the population and the planet.





Letter from Prime Minister Margaret Thatcher, 1990



The Rt. Hon. Margaret Thatcher M.P.  
Prime Minister



Cutting from a Plumbing Magazine regarding the 1990 Conference



Assembly of Conference delegates in City of London Guildhall at the opening ceremony



A London "Cockney Pearly King and Queen" at a function in Barbican Centre as part of the Conference



# WPC LEADERSHIP 1990 – 2016

## 2013 – 2016



The Strategic Planning Meeting of the EB of 2013 – 2016 held in Bangalore, India in February 2014 provided an opportunity to the Board Members to prepare an agenda for implementation over the next three years. With the seven existing Committees and the newly established one for Research and Development headed by individual Board Members and the Secretariat, it is envisaged that the workload can be shared and the activities can be progressed concurrently. Apart from strengthening the on-going programs; such as widening the membership base, administering the existing and the new scholarship, popularizing World Plumbing Day and continual development of “Environmental Aspects of Plumbing”, the 2013 – 2016 EB will pursue some specific initiatives. These include the publication of this inaugural WPC Handbook, establishing Regional Forums and developing marketing and promotional material like a new WPC marketing video.

**Chairman**  
Sudhakaran Nair

### Executive Board

Chairman	Sudhakaran Nair, India	Director	Jim Kendzel, USA
Deputy Chairman	Shayne La Combre, Australia	Director	Mike Massey, USA
Hon. Secretary/Treasurer	Ken Gardner, Australia	Director	Hua Mingjiu, China
Director	Steve Brown, South Africa	Director	Kevin Wellman, England
Director	Elmar Esser, Germany		

## 2011 – 2013



In the period 2011 – 2013, the focus of the EB was on expanding the foundation. As the WPC grew during the first decade of the new millennium it became evident that the then seven members of the EB could not manage the day-to-day workload given the numerous initiatives underway as well as those planned.

The EB recognized the fantastic work of the Secretariats to date, but identified a need to expand the volunteer contributions offered by willing members. The EB decided to support the creation of new Committees which would each be Chaired by an existing member of the EB, enabling continuity, clear vision and implementation of our various strategic initiatives. This was a very successful effort which continues to this day.

**Chairman**  
Russ Chaney

### Executive Board

Chairman	Russ Chaney, USA	Director	Richard J. Prospal, USA
Deputy Chairman	Sudhakaran Nair, India	Director	Shayne La Combre, Australia
Hon. Secretary/Treasurer	Hans Tiedemann, Canada	Director	Hua Mingjiu, China
Director	Elmar Esser, Germany		

## 2008 – 2011



The undoubted highlight of the 2008 – 2011 term of the Council was the creation, launch and success of World Plumbing Day. The concept of having an annual day promoting the important role played by the plumbing industry was developed by the 2008-2011 EB.

World Plumbing Day was launched in Beijing in March 2010 and has been celebrated around the world on March 11 every year since. The second World Plumbing Day celebration was held in Bangalore, India. As Chairman of the 2008-2011 EB it is extremely satisfying to see the impact which this Day is making all over the world. I look forward to seeing World Plumbing Day doing more each year to raise awareness that plumbing is essential to global health and the environment.

**Chairman**  
Robert Burgon

### Executive Board

Chairman	Robert Burgon, Scotland and Northern Ireland	Director	Sudhakaran Nair, India
Deputy Chairman	Russ Chaney, USA	Director	Richard Prospal, USA
Hon. Secretary/Treasurer	Hans Tiedemann, Canada	Director	Hua Mingjiu, China
Director	Blane Judd, England and Wales	Director	Linden Raimier, USA (Served part of the term)



## 2005 – 2008



The 2005 – 2008 term of the WPC was one in which the Council expanded its reach and influence and embedded its relationships with key partners. The most notable demonstration of this was the designation of the WPC as having official NGO status with the WHO. This culminated in the release of the updated “Health Aspects of Plumbing” at the WPC Annual Meeting in Beijing in March of 2006.

Another highlight of the period was the furthering of the relationship and information and knowledge exchange between the US Plumbing Industry and the WPC. To facilitate this, a meeting of the WPC was convened in Ann Arbor in Michigan, timed to coincide with the United Association’s (UA) annual Instructor Training Program. This enabled the UA’s contemporary and comprehensive Instructor Certification Program to be demonstrated to the WPC delegates from around the world.

**Chairman**  
George Bliss

### Executive Board

Chairman  
Deputy Chairman  
Secretary  
Treasurer

George Bliss, USA  
Robert Burgon, Scotland and Northern Ireland  
Andy Watts, MBE England  
Hans Tiedemann, Canada

Director  
Director  
Director

Henry Hung, China  
Sudhakaran Nair, India  
Steve Movley, Australia

## 2002 – 2005



In a context of unprecedented world focus on the issues and challenges for environmentally sustainable access to all for fresh water and sanitation posed by globalisation and population growth; during the 2002 – 2005 period the WPC developed its first ever Strategic Plan. A central theme of that Strategic Plan was the need identified by the Council for it to develop and foster partnerships with key relevant global organisations.

The important strategic planning and alliance forming work done by the 2002 – 2005 EB led to the development of partnerships with organisations such as Messe Frankfurt, Conseil International du Batiment, WorldSkills International and the WPC obtaining NGO status with WHO in 2006. Other significant achievements during this term of the WPC EB include the establishment and promotion of the WPC’s Scholarship program and the co-hosting by the WPC of the international symposium on SARS Corona virus in 2004.

**Chairman**  
Stuart Henry

### Executive Board

Chairman  
Vice Chairman  
Vice Chairman  
Secretary

Stuart Henry, Australia  
Henry Hung, China  
George Bliss, USA  
Andy Watts, England and Wales

Treasurer  
Director  
Director

George Verry, New Zealand  
Russ Chaney, USA  
Robert Burgon, Scotland and Northern Ireland

## 1999 – 2002



1999 – 2002 was a period in which the WPC hard establishment work of the first decade was consolidated and key international relationships developed and fostered. This term saw the realization of some initiatives that were commenced in the very early days of the Council, like the Community project in Kwazulu/Natal, the Siyembeni Water Project, that commenced in 1990 and by the end of the decade provided water for four South African communities.

A feature of the period was progressing work with the WHO. In 2002 the WPC completed Drinking Water Quality as part of the updated Guidelines on the Health Aspects of Plumbing (GoHAP). The hard work done by the 1999 – 2002 EB to progress GoHAP laid the foundation for “The Health Aspects of Plumbing” in 2006.

**Chairman**  
Don Morin

### Executive Board

Chairman  
Vice Chairman  
Vice Chairman  
Secretary

Don Morin, USA  
Stuart Henry, Australia  
Michael von Bock und Polach, Germany  
Andy Watts, England and Wales

Treasurer  
Director  
Director

George Verry, New Zealand  
Henry Hung, China  
George Bliss, USA



## 1996 – 1999



In these early years of the WPC existence, the emphasis was on teambuilding in order to create an organization with which the worldwide plumb fraternity could identify and derive lasting benefits from. A focus of the WPC at this time was to establish and build positive, interactive relationships with other institutions and NGO's allied to the objectives of the WPC.

The key objective of the 1996-1999 EB was the laying of a solid foundation on which to build the WPC into an organization truly representative of the plumbing industry, in terms of its aims and aspirations. The EB focused on building credibility and capability crucial to meaningful interaction with organisations such as WHO.

**Chairman**  
Ian Fraser

### Executive Board

Chairman  
Vice Chairman  
Vice Chairman

Ian Fraser, South Africa  
Max Park, Australia  
Don Morin, USA

Secretary  
Treasurer

Andy Watts, UK  
George Verry, New Zealand

## 1993 – 1996



1993 – 1996 was a period of consolidation and growth for the WPC. The first EB led by Geoff Marsh MBE had built a solid foundation upon which the organization could now be developed. The 1993 – 1996 EB developed some core organizational documents and set the direction for the WPC going forward. By-laws and other governance related documents were developed as was a Business Plan for the Council.

During this period the WPC built key relationships with plumbing industry bodies around the world, facilitating co-operation between countries and creating pathways for the sharing of key industry innovations or advancements in training. A highlight of the period was the WPC's first meeting with the WHO, a relationship that has proven to be central to the WPC's development into a recognized and important international body.

**Chairman**  
Bob Kreutzer

### Executive Board

Chairman  
Deputy Chairman  
Treasurer  
Secretary

Bob Kreutzer, USA  
Ian Fraser, South Africa  
Derek McCorquindale, Canada  
Bernard Bateman, UK

### Inner Council Members

Bill Watson, Australia  
Max Park, Australia  
Don Watson, Canada  
Geoff Marsh, UK

Norman Fisher, South Africa  
Harry Carlsson, Sweden  
Henry Hung, China  
George Bliss, USA

## 1990 – 1993



In the post 1945 period, humanity was in a state of recovery following two disastrous world wars. Unfortunately we have not quite learned this terrible lesson, but movements like our WPC are part of a healing process.

We first gained awareness of each other through the written word. In the period leading to the 1980s people in plumbing took to travelling. We met in foreign lands, found much in common and shared a belief that drinking quality water supply, safe sanitation and a healthy environment were top of the agenda for an expanding world population. What happened next is enshrined in this short history of an exceptional human enterprise.

**Chairman**  
Geoff Marsh

### Executive Board

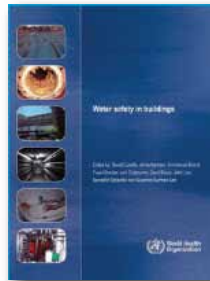
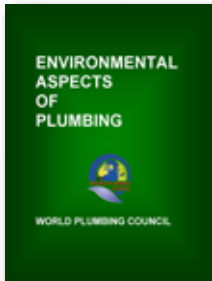
Chairman  
Deputy Chairman  
Treasurer  
Secretary

Geoff Marsh, UK  
Bob Kreutzer, USA  
Derek McCorquindale, Canada  
Bernard Bateman, UK

### Inner Council Members

Ray Herbert, Australia  
Henry Hung, China  
Harry Carlsson, Sweden  
Ted Wealhens, Canada  
Ian Fraser, South Africa





December 2013



August 2013



April 2013



December 2012



July 2012



March 2012



March 2011



October 2010



March 2009



November 2008



February 2008



March 2007



October 2006



April 2006



December 2005



July 2005



October 2004



May 2004



December 2003



October 2003



May 2003



November 2002



July 2002



January 2002





*The World Plumbing Council Handbook provides an opportunity to reflect on the achievements and challenges faced by the Council in the period of the immediate past Executive Board and to outline the aspirations and goals of the World Plumbing Council for the period of the current Executive Board. The Handbook will be produced every three years to coincide with the terms of the Executive Board.*

*The Council has taken the opportunity to use this first edition of the Handbook to acknowledge and reflect on the achievements of Executive Board's past and to recognize the very valuable contribution made by the early World Plumbing Council leaders, several of whom have since been recognized as recipients of the Distinguished Services Award.*

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