



THE TIPPING POINT: PVC PIPE IN THE AGE OF REPLACEMENT



LOS SUENOS MARRIOTT OCEAN & GOLF RESORT / PLAYA HERRADURA, COSTA RICA
43RD ANNUAL MEETING | FEBRUARY 23-25, 2015

UNI-BELL'S MAJOR GOALS

MARKET SUPPORT

Identify, analyze and capitalize on opportunities to preserve and expand markets for PVC pipe.

ISSUES MANAGEMENT

Monitor and influence public issues that affect Association members.

TECHNICAL SUPPORT

Collect, interpret and disseminate technical information on industry products and their applications.

EDUCATION

Enhance knowledge and awareness of groups and individuals responsible for the promotion and use of PVC pipe.

STANDARDS AND SPECIFICATIONS

Promote and assist in the development of standards, specifications and practices that encourage proper use of PVC pipe.

ORGANIZATIONAL RELATIONSHIPS

Maintain cooperative relationships and activities with allied organizations in pursuit of Uni-Bell's mission.

INDUSTRY STATISTICS

Lawfully gather, consolidate and disseminate industry sales, marketing and production data.

NETWORKING AND FORUMS

Encourage member interaction and understanding of issues and trends affecting the industry.

ORGANIZATIONAL COMPETENCY

Maintain an organizational structure that reflects the highest levels of volunteer and professional staff competency.

MISSION STATEMENT

INCREASING THE RESPONSIBLE USE OF PVC PIPE

- EXPANDING DEMAND FOR PVC PIPE PRODUCTS
- CONSOLIDATING PVC PIPE INDUSTRY EFFORTS TO PROMOTE ITS PRODUCTS
- INFORMING PUBLIC OPINION ON PVC PIPE USE

ANTITRUST GUIDELINES

Antitrust laws prohibit agreements or understandings between two or more individuals or businesses to regulate prices or quantities of goods or services, to allocate customers or territories, to hinder or limit a competitor or potential competitor's operations, or otherwise unreasonably restrain business activity. Discriminatory pricing or servicing is also prohibited, as well as monopolization or attempts to monopolize.

Violation of antitrust laws is a felony and convicted individuals can be and have been imprisoned for up to three years. Corporations are subject to heavy fines. Violation of antitrust laws can also lead to civil actions which can result in treble damages and attorneys' fees. Every individual should, therefore, follow these rules:

DO NOT discuss your prices or competitors' prices with a competitor (except when buying from or selling to that competitor) or anything which might affect prices such as costs, discounts, terms of sale, or profit margins.

DO NOT agree with competitors to uniform terms of sale, warranties or contract provisions.

DO NOT agree with competitors to divide customers or territories.

DO NOT act jointly with one or more competitors to put another competitor at a disadvantage.

DO NOT try to prevent your supplier from selling to your competitor.

DO NOT discuss your future pricing, marketing or policy plans with competitors.

DO NOT discuss your customers with your competitors.

WITH RESPECT TO ASSOCIATION ACTIVITIES

DO NOT make statements regarding prices or matters affecting prices at Association meetings.

DO NOT make statements about your future plans regarding pricing, expansion or other policies with competitive overtones.

Do NOT participate in discussion where other members do.

DO NOT propose or agree to any standardization which will injure your competitor.

DO NOT assume you are protected by informal advice from a government official.

Consult with the Association's legal counsel before speaking for the Association.

Alert Association staff and legal counsel to anything inaccurate or improper. This includes a position the Association has taken or intends to take or a meeting or activity of which you have learned.

Consult your own legal counsel or the Association's legal counsel before raising any matter which you feel might be sensitive.

Send copies to an Association staff member of any communications or documents sent, received or developed by you when acting for the Association.

Alert every employee in your Company who deals with the Association of these guidelines.

Leave any meeting where any of the foregoing topics are being discussed – and state why you are leaving.

Be conservative. If you feel an activity might be improper, do not do it.

WELCOME THE TIPPING POINT: PVC PIPE IN THE AGE OF REPLACEMENT

**ON BEHALF OF UNI-BELL'S BOARD OF DIRECTORS,
WE EXTEND A HEARTFELT WELCOME TO ALL
PARTICIPANTS IN OUR 43RD ANNUAL MEETING!**

According to the U.S. Conference of Mayors more than \$2 trillion will be spent on water and sewer infrastructure over the next two decades. The age of pipe replacement is upon us. Let's use PVC pipe, a product that studies confirm lasts well over 100 years and is both cost-effective and sustainable. Independent environmental assessments show that PVC piping has a much lower environmental footprint than old-technology iron pipe and newer polyethylene (HDPE) pipe. HDPE's smaller internal diameter results in higher pumping costs than PVC pipe, generating unnecessary greenhouse gas emissions. Pumping costs for ductile iron (DI) pipe are also higher than PVC's since its flow characteristics decline over time owing to the degradation of its cement lining and because of its propensity to break and leak.

North American water utilities have reached a tipping point. Old-technology cast iron piping is failing due to corrosion and so is its replacement, DI pipe, whose longevity has plummeted because of its thinner walls. The canary in the mineshaft is the continent-wide premature failure of DI pipe for sewer force mains. Similarly, DI pipes for water systems are also failing at an alarming rate. In both cases the reason is its vulnerability to corrosion. And this includes poly-wrapped DI since this is not recognized by the National Association of Corrosion Engineers or the U.S. Bureau of Reclamations as a corrosion-control method. The iron age is coming to a close as we enter the age of replacement.

Other materials are trying to fill the gap. The HDPE pipe industry continues in its attempt to lower the safety factor of its water pipe to gain market share. This risky proposal would allow the material with the lowest tensile-strength and the shortest in-service performance record to be rated using the lowest safety factor; which will only increase the risk of pipe failure and shorten design life. But that's not all, the product continues to have performance issues at a time when performance is critical. In contaminated soils, HDPE's vulnerability to permeation poses risks to public health and safety. DI and HDPE pipe are simply not up to the task.

Let's use a product whose quality and flexibility makes it most advantageous for almost all applications and during earthquakes and other natural disasters, allowing utilities to maintain services when it's most critical. Old-technology materials like iron, concrete and clay pipe are subject to failure under many conditions. HDPE, for its part, simply doesn't have the performance record offered by PVC pipe.

We look forward to thought-provoking discussions with you at the Los Suenos Marriott Ocean & Golf Resort at Playa Herradura, Costa Rica on why PVC pipe will be the product of choice in the age of replacement.

With best regards,

Michael J. Mattina

Mike Mattina
Chair

Bruce Hollands

Bruce Hollands
Executive Director

THANK YOU TO OUR SPONSORS

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KEYNOTE SPEAKER

SCIENCE-BASED ENVIRONMENTALISM & PVC'S ROLE IN A MORE SUSTAINABLE FUTURE

Dr. Patrick Moore has been a leader in the international environmental movement for more than 40 years. Author, speaker and former environmental consultant, he reveals the myths and misinformation that distort current environmental debates and calls for issues to be discussed on the basis of accurate scientific data, a search for consensus and the creation of sustainable solutions. Moore was a founding member and former President and International Director of Greenpeace. In his book, *Confessions of a Greenpeace Dropout: The Making of a Sensible Environmentalist*, Moore provides a vision for a more sustainable world and argues for us to rethink our conventional wisdom about the environment. From energy independence to climate change, genetic engineering to aquaculture, he sheds new light on some of the most controversial subjects in the news today. He is committed to advocating for use of the most sustainable and cost-effective technologies available, which have the least impact on the environment while providing for essential human needs.

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North American
Pipe Corporation

AUTHOR, SPEAKER, FOUNDING MEMBER
& FORMER PRESIDENT OF GREENPEACE

DR. PATRICK MOORE



EVENT SPEAKERS

DR. SAMUEL T. ARIARATNAM is Professor and Construction Engineering Program Chair at the Ira A. Fulton Schools of Engineering at Arizona State University. Widely published with several patents, active in numerous professional organizations, his educational and research interests lie in trenchless construction methods with an emphasis on horizontal directional drilling and pipe bursting.

TOM DELAY is past House Majority Leader in the U.S. Congress, a frequent political commentator, and founder of First Principles, LLC, a strategic conservative political consulting firm. Under his leadership in the 1990s and early 2000s, Congress reduced non-defense discretionary spending and passed ambitious, constitutionally conservative bills that reflected the policies and issues of the Republican agenda, which Tom played a major part in shaping.

DICK DOYLE is President and CEO at The Vinyl Institute. He spent 17 years at the American Chemistry Council and has extensive experience in association management, public affairs and in driving performance improvement throughout the U.S. manufacturing industry.

NASRIN KASHEFI is Business Manager of the Plastics Program at NSF International, an organization providing standards development, product certification, education, and risk management for public health and safety.

DAVID MUNN is Project Director, South Region for AECOM Water and has 11 years of experience in the design of water and wastewater treatment plants and pump stations.

ANDRÉ NIJLAND is Area Sales Manager, Technology Licensing for the Far East and North America with Wavin Overseas B.V., a Dutch exporter of the Wavin Group which delivers systems for drinking water supply, wastewater discharge and storm water management, and licenses its technologies to partners around the globe.

FRANK O'CALLAGHAN is National Technical Manager of Iplex Pipelines (NZ) Ltd. and has more than 33 years of experience in manufacturing, development, design, specification and construction of infrastructure plastic pipelines in Australasia and the U.S. Frank also has expertise in the seismic performance of pipelines, trenchless, mining, water, wastewater and irrigation applications, contractor technical support training and plastic pipe industry standards for manufacturing and installation.

SARAH PATTERSON is Technical Director, Plastics Pipe Institute (PPI) and Chairman, Hydrostatic Stress Board (HSB) and is responsible for standards development across ASTM, ISO, ASME, CSA, AWWA and ASABE as well as PPI's HSB Listing Program for pressure pipe materials. Previously Ms. Patterson worked in the chemicals industry for more than a decade, particularly in R&D. She has three patent applications as a co-inventor, with one granted to date.

ROBERT PUENTES is a Senior Fellow with the Brookings Institution's Metropolitan Policy Program where he also directs the Program's Metropolitan Infrastructure Initiative. The Initiative was established to address the pressing infrastructure challenges facing cities and suburbs in the U.S. and abroad. He is widely published, a frequent speaker and regular contributor to print and other media, and has testified before Congressional committees.

STEIN RAAE is Global Business Director, Chlor-Alkali/Vinyls (CAV) at IHS Chemical and has over 30 years of experience as an international business executive and advisor for the oil and petrochemical industry. Mr. Raae was chairman and senior partner for an international consultancy, where he focused on helping companies manage business growth in international market expansions, and served at Norsk Hydro in Norway for 25 years in a variety of global commercial and executive functions across the vinyls value chain.

COUNCILMAN JON RUSSELL is Director of the American City County Exchange, a national network of village, town, city and county lawmakers which seeks to advance efficiency, limited government and free market principles at the local level. Jon spent six years as a councilman in the City of Washougal, Washington. He was recently elected Town Councilman in Culpepper, VA where he sits on the Finance Committee and serves as Chairman of the Public Safety, Public Works and Community Development Committees.

ERIK TELFORD is Acting President of the Franklin Center, one of the nation's leading authorities on the subject of non-profit journalism and investigative news. Their work has played a vital role in exposing corruption among elected officials and encouraging transparency in government. He is widely published as an opinion writer, and is a frequent guest on radio and other media outlets. Franklin Center operates Watchdog.org, a news site with operations in 40 states.

WILLIAM W. WIEGAND, JR., PE is a Hydraulic Engineer with Morrison-Maierle, Inc. with over 12 years of design experience in a broad range of water industry sectors. His past projects include the design of water distribution and transmission pipelines, pumping systems, irrigation pipelines and channel structures, hydroelectric generation systems, treatment plant process piping, wastewater collection and pumping systems, and mine water conveyance systems. Mr. Wiegand also specializes in hydraulic modeling, surge analysis, and water quality modeling.

SCHEDULE OF EVENTS

NOTE: ATTIRE IS BUSINESS CASUAL/SLACKS UNLESS SPECIFIED OTHERWISE.
BADGES MUST BE WORN AT ALL SOCIAL EVENTS AND PRESENTATIONS.
BREAKFAST AT LA VISTA RESTAURANT IS INCLUDED WITH REGISTRATION.

SUNDAY, FEBRUARY 22 / LAS SANDIAS TERRACE

6:00 PM – 7:00 PM

PRE-MEETING RECEPTION

SPONSORED BY  **The Vinyl Institute**

MONDAY, FEBRUARY 23 / HERRADURA SECTION AB

7:30 AM

BREAKFAST @ La Vista Restaurant

8:30 AM

JOINT MEETING OF PIPE & RESIN PRODUCERS, ASSOCIATE, INTERNATIONAL, LICENSING & CERTIFICATION / TESTING MEMBERS

Brad Corbett Jr., Board Member, S&B Technical Products, Inc.

Introduction of attendees and new members, election of Board Member and discussion of international travel.

9:00 AM

THE ROLE OF PVC PIPE IN SUSTAINABLE URBAN INFRASTRUCTURE DEVELOPMENT

Samuel T. Ariaratnam, Ph.D., Professor & Construction Engineering Program Chair, Ira A. Fulton Schools of Engineering, Arizona State University

As a result of rising population growth in urban centers and deterioration due to naturally aging infrastructure, PVC pipe has made a significant impact on the development of urban underground utilities, particularly in the water and wastewater sectors. This presentation discusses the role of PVC pipe in trenchless technology applications and the product's importance in sustainable urban infrastructure development.

9:30 AM

PVC: KEY DRIVERS & TRENDS, FEEDSTOCK'S OUTLOOK & WORLDWIDE ECONOMIC FACTORS

Stein Raae, Global Business Director, Chlor-Alkali/Vinyls (CAV), IHS Chemical

A look at capacity and demand in the global thermoplastics marketplace.

SOCIAL ACTIVITIES

9:00 AM – 10:00 AM

SPOUSAL ORIENTATION

Tortuga Club

Light refreshments included.

5:00 PM – 9:30 PM

WELCOME / NETWORKING RECEPTION & DINNER*

Villa Caletas (Zephyr Palace)

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***IMPORTANT:** This event is off-site. Shuttle service departs in front of hotel lobby at 4:15 PM.

MONDAY, FEBRUARY 23 / HERRADURA SECTION AB

10:15 AM BREAK

10:30 AM

WESTERN U.S. WATER PROJECTS WITH PVC PIPE

William W. Wiegand Jr., PE, Hydraulic Engineer, Morrison-Maierle, Inc.

A look at small and large diameter PVC pipe applications in western rural water projects through case studies. Topics include the advantages and disadvantages of PVC and other pipe materials in adhering to project specific design requirements. Also a discussion of the issues involved in rural water designs like hydraulic and transient performance, installation and bedding methods, corrosive environments, and cost analyses.

11:00 AM

THE WATER INFRASTRUCTURE PRIORITY: NEW TRENDS AND INNOVATIONS

Robert Puentes, Senior Fellow, Brookings Institution's Metropolitan Policy Program & Director, Metropolitan Infrastructure Initiative

A discussion of the disruptive demographic, economic, and environmental trends affecting our nation's infrastructure today with specific emphasis on water challenges facing cities and metropolitan areas. The path forward must include innovations in procurement, finance, and governance.

11:30 AM

HYDROSTATIC STRESS BOARD & THE PVC PIPE INDUSTRY

Sarah Patterson, Technical Director, Plastics Pipe Institute (PPI) & Chairman, Hydrostatic Stress Board (HSB)

A historical overview of the HSB and review of ongoing activities supporting the vinyl pipe and fittings industry, including current and future R&D projects, and how new materials and ingredients used in vinyl manufacturing are driving changes in PPI TR-3 policies and PPI TR-4 listing classifications. Also, how the International Standards Organization (ISO) affects vinyl production in North America and what the HSB is doing to support companies in this area.

FREE AFTERNOON

SCHEDULE OF EVENTS

NOTE: ATTIRE IS BUSINESS CASUAL/SLACKS UNLESS SPECIFIED OTHERWISE.
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BREAKFAST AT LA VISTA RESTAURANT IS INCLUDED WITH REGISTRATION.

TUESDAY, FEBRUARY 24 / HERRADURA SECTION AB

7:30 AM

BREAKFAST @ La Vista Restaurant

8:30 AM

CHAIR'S REMARKS

8:45 AM

NSF STANDARD 14: 50 YEARS OF SERVICE TO THE PVC PIPE INDUSTRY FOR QUALITY CONFORMANCE

Nasrin Kashefi, Business Manager, Plastics Program, NSF International

A look back at the history of NSF Standard 14, how PVC pipe was first evaluated, and how the standard works today.

9:15 AM

THE VINYL INDUSTRY IN 2015

Dick Doyle, President and CEO, The Vinyl Institute (VI)

The latest developments and issues facing the North American PVC/vinyl market. Learn about the tremendous opportunities for vinyl product solutions and the collaborative efforts between Uni-Bell, VI and others in the vinyl chain to broaden markets for PVC pipe and other essential vinyl materials.

9:45 AM

GETTING OUT THE MESSAGE ON OPEN COMPETITION FOR WATER AND SEWER PIPING

Erik Telford, Acting President, Franklin Center for Government and Public Integrity

The Franklin Center's in-house investigative journalists, whose watchwords are transparency, accountability and fiscal responsibility, provide articles and other news content to underfunded local and regional newspapers nationwide. Elected officials responsible for America's 87,000 state and local governments and related agencies spend more than \$3 trillion annually. Find out how the Franklin Center is using journalism to hold elected officials accountable and expose waste, fraud and abuse in government bidding across the nation.

SOCIAL ACTIVITIES

1:00 PM – 6:00 PM

UNI-BELL GOLF TOURNAMENT

La Iguana Golf Course
Shotgun & Scramble Format
Lunch not provided.
Meet in hotel lobby at 12:15 PM.

TUESDAY, FEBRUARY 24 / HERRADURA SECTION AB

10:15 AM BREAK

10:30 AM

UPDATE FROM THE EUROPEAN PLASTIC PIPE MARKET

André Nijland, Area Sales Manager, Technology Licensing, Far East & North America, Wavin Overseas B.V.

Status and outlook on PVC pipe in Europe, an update from The European Plastic Pipes and Fittings Association (TEPPFA) and new developments in PVC.

11:00 AM

KEYNOTE SPEAKER

SCIENCE-BASED ENVIRONMENTALISM & PVC'S ROLE IN A MORE SUSTAINABLE FUTURE

Dr. Patrick Moore, Author, Speaker, Founding Member & Former President of Greenpeace

Dr. Moore exposes the myths and misinformation that distort current environmental debates and calls for issues to be discussed on the basis of accurate scientific data, a search for consensus and the creation of sustainable solutions. From energy independence to climate change, genetic engineering to aquacultures, Moore sheds new light on some of the most controversial subjects in the news today. He provides a vision for a better world and challenges us to rethink our conventional wisdom about the environment. Hear his thought-provoking ideas and insights on how greater use of PVC pipe offers a real opportunity to create more sustainable and cost-effective water and sewer systems.

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FREE EVENING

SCHEDULE OF EVENTS

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BADGES MUST BE WORN AT ALL SOCIAL EVENTS AND PRESENTATIONS.
BREAKFAST AT LA VISTA RESTAURANT IS INCLUDED WITH REGISTRATION.

WEDNESDAY, FEBRUARY 25 / HERRADURA SECTION AB

7:30 AM

BREAKFAST @ La Vista Restaurant

8:30 AM

EXECUTIVE DIRECTOR REPORT: Bruce Hollands, *PVC Pipe Association*

TECHNICAL / MARKET DEVELOPMENT COMMITTEE REPORTS: Steve Gross, *North American Pipe Corporation*

TECHNICAL DIRECTOR REPORT: John Houle, *PVC Pipe Association*

REGIONAL ENGINEER REPORTS: Steve Cooper, *PVC Pipe Association*
Randel Dobbs, *PVC Pipe Association*

SENIOR WASHINGTON CONSULTANT REPORT: Tim Burns, *PVC Pipe Association*

RESIN PRODUCERS, ASSOCIATES, INTERNATIONAL, LICENSING & CERTIFICATION / TESTING MEMBERS REPORT: Brad Corbett, Jr., *S&B Technical Products, Inc.*

9:30 AM

CASE STUDY: EVALUATING WATER HAMMER IN THE SAN JACINTO RIVER AUTHORITY'S NEW 57-MILE TRANSMISSION SYSTEM

David Munn, Project Director, South Region, AECOM Water

A look at the causes and effects of hydraulic transients, otherwise known as water hammers, and the protective measures available to engineers and water utilities. The discussion will focus on computer modeling evaluation performed on the San Jacinto River Authority's new potable water transmission system, which includes 57 miles of pipe ranging in size from 60-inch to 8-inch and consisting of a variety of materials, a large percentage being PVC.

10:00 AM BREAK

10:20 AM

HOW FREE MARKETS AT THE LOCAL LEVEL ARE KEY TO AMERICA'S FUTURE

Councilman Jon Russell, Director, American City County Exchange (ACCE)

A discussion of ACCE's activities at the local level and why there is a growing trend towards reform of municipal procurement practices. PVC pipe can play a key role in advancing free market principles since water and sewer piping represents 60 percent of the total cost of underground infrastructure projects, so it is here where open and fair procurement practices should be focused.

SOCIAL ACTIVITIES

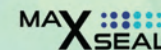
6:00 PM – 9:00 PM

GRAND FINALE DINNER

Arrecife Garden

Attire: cocktail / sports jacket (tie optional)

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WEDNESDAY, FEBRUARY 25 / HERRADURA SECTION AB

10:50 AM

PIPELINE PERFORMANCE DURING SEISMIC EVENTS IN NEW ZEALAND

Frank W. O'Callaghan, National Technical Manager, Iplex Pipelines (NZ) Ltd.

Pipe system design, materials, installation methods, repair methodologies and practical implications of operation are all directly affected by seismic activity. This presentation includes first-hand observations and experiences specific to pipeline systems in New Zealand seismic events, covering a 27-year period from 1987 to 2014. Conclusions and recommendations from lessons learned are provided, including an evaluation of PVC pipe performance.

11:20 AM

GOVERNMENT IS THE COST OF DOING BUSINESS

Tom DeLay, former House Majority Leader in the U.S. Congress, Conservative Strategist, Author and Political Commentator

PVC pipe's exceptional durability and cost-effectiveness are game-changers as America renews its corroding infrastructure. Vested interests like old-technology iron piping are fighting to maintain outdated and unfair procurement practices advantageous to their industry, at a tremendous cost to taxpayers. At the same time, federal, state and local government regulations and taxes represent 50 to 60 percent of the cost of doing business. To lower the cost of government and open up more markets for their products, PVC pipe producers must get more involved in the political process and develop closer relationships with lawmakers.

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11:50 AM

CLOSING REMARKS

Mike Mattina, Uni-Bell Chair

Conclusion of Annual Meeting

12:30 PM

BOARD OF DIRECTORS' MEETING & LUNCHEON @ Playa Hermosa A

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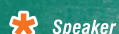
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Speaker



New Member



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All locations specific to
events located in schedule
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