

UNI-BELL PVC PIPE ASSOCIATION  
**39TH ANNUAL MEETING PROGRAM**  
APRIL 18-20, 2011  
Loews Ventana Canyon Resort  
Tucson, Arizona



**SMARTER SPENDING FOR  
CHALLENGING TIMES**

Rebuilding America's Water/Wastewater Infrastructure with PVC Pipe  
THE WORLD'S LARGEST GATHERING OF PVC PIPE & FITTING MANUFACTURERS

**WELCOME**

# SMARTER SPENDING FOR CHALLENGING TIMES

Rebuilding America's Water/Wastewater Infrastructure with PVC Pipe

## WELCOME TO UNI-BELL'S 39TH ANNUAL MEETING

Dear Member,

On behalf of Uni-Bell's Board of Directors, we extend a heartfelt welcome to all participants in our 39th Annual General Meeting.

Against the backdrop of a U.S. economy that is emerging from a serious downturn, our theme this year is intended as a message to citizens and governments that tax dollars need to be spent wisely in the rebuilding of our crumbling underground infrastructure.

The situation is rather dire. Over 850 watermain breaks occur every day and some 2.6 trillion gallons of potable water are lost yearly through crumbling, corroding, leaking pipes. All told, this costs \$50.7 billion annually in repairs, replacements, lost water, etc.

So governments need to take a good hard look at the most cost effective materials to address this problem.

That's why this year's theme is also meant to showcase PVC and explain why it leads all other piping materials in durability, performance, cost effectiveness and energy efficiency. And why it has become the material of choice for water and wastewater applications – over 40,000 North American water utilities use PVC pipe today, and some two million miles are in service.

The program is designed to highlight the latest technical developments, legislative strategies and communications initiatives affecting our industry. Our list of speakers includes national and international experts whose presentations you won't want to miss.

Our venue is the award winning Loews Ventana Canyon Hotel. Set amid the spectacular natural beauty of the Santa Catalina Foothills and the Sonoran Desert, this first-class conference centre offers everything needed to ensure our meeting is a pleasurable and successful experience.

We look forward to exchanging with you over the next few days.

With best regards,

**VESO SOBOT**  
Chair

**BRUCE HOLLANDS**  
Executive Director

Attire is business casual/jeans ok unless specified otherwise.  
Badges must be worn for all social events and presentations.

## MONDAY, APRIL 18

7:00 a.m. - 12:00 noon..... **JOINT MEMBER MEETING/PRESENTATIONS – SALON KL**

10:00 a.m. - 11:00 a.m..... **SPOUSAL ORIENTATION – SALON J**

**FREE AFTERNOON**

5:00 p.m. - 7:00 p.m..... **WELCOME & NETWORKING RECEPTION – BILL'S GRILL**  
Attire is business casual/slacks – no jeans.

## TUESDAY, APRIL 19

7:00 a.m. - 12:00 noon..... **CHAIRS REMARKS/PRESENTATIONS – SALON KL**

12:30 p.m..... **UNI-BELL GOLF TOURNAMENT –  
GOLF STAGING AREA/CANYON COURSE**

**FREE EVENING**

## WEDNESDAY, APRIL 20

7:00 a.m. - 12:00 noon..... **ASSOCIATION REPORTS/PRESENTATIONS – SALON KL**

12:30 p.m. - 4:00 p.m..... **BOARD OF DIRECTORS' MEETING AND LUNCHEON –  
SANTA RITA ROOM**

6:30 p.m. - 9:00 p.m..... **GRAND FINALE DINNER – VENTANA DINING ROOM**  
Attire is cocktail/sports jacket - tie optional.

*Registration package includes free continental breakfast daily.*



# SCHEDULE SUMMARY

## UNI-BELL WOULD LIKE TO THANK THE FOLLOWING SPONSORS:

### PLATINUM SPONSOR



### SILVER SPONSORS



# FEATURED SPEAKERS



**GREGORY BAIRD**  
is Managing Director/CFO of Aging Water Infrastructure Consulting, LLC, and former CFO, City of Aurora/Aurora Water, CO.



**JEFF CHATTERTON**  
is a risk and crisis communications consultant who specializes at calming fears and misunderstandings. He owns and operates Checkmate Public Affairs.



**ERIKA BERLINGHOF**  
is director of government and industry relations for the National Association of Water Companies, an organization that represents private sector water providers.



**CHRIS CUPIT**  
is president of CMS, Inc., a political and direct marketing communications firm specializing in political messaging and public relations.



**ALLEN BLAKEY**  
is vice president of industry and government affairs for the Vinyl Institute, the national trade association for vinyl resin manufacturers.



**DR. STEVEN FOLKMAN, PH.D.,**  
is an associate professor at Utah State University and director of the Buried Structures Research Lab. He has been involved in buried pipe testing and analysis for over twenty years.



**TIM BURNS**  
is a government relations consultant, a profession he has exercised since 1975. He's an expert on issues that include drinking water and waste water, energy, taxes, transportation, trade, environment, health and safety, etc.



**MARK HEATHCOTE**  
is executive general manager of the Plastics Industry Pipe Association of Australia, an organization that represents suppliers and manufacturers of plastics pipe and raw materials in Australia.

# FEATURED SPEAKERS



## JOHN HOULE

is market development manager – Bionax PVCO Pipe, with IPEX Management Inc., a manufacturer of various integrated thermoplastic piping systems.



## EDWIN SCOTT

is a business unit manager with 3M Track & Trace Solutions, a company that uses various technologies to help utilities locate and manage their underground assets.



## NASRIN KASHEFI

is general manager of the plumbing program at NSF International, an organization providing standards development, product certification, education, and risk-management for public health and safety.



## PETE SEPP

is executive vice president for the National Taxpayers Union (NTU), where he oversees government affairs, public relations, as well as research and educational operations. The NTU is a grassroots organization working for lower taxes, smaller and more accountable government.



## IGNACIO MUÑOZ

is CEO of Molecor Tech, a company which manufactures PVC-O pipes and provides technical expertise in the molecular orientation field.



## NICK VAFIADIS

is business director for polyolefins at Chemical Market Associates, Inc., a firm which provides advice to the chemical, plastics, fibers, and chlor-alkali industries. He is a twenty-five year veteran of the chemical industry.



## JOS OOSTERIK

is area manager for technology with Wavin Overseas B.V., a Dutch supplier and exporter of water, waste water and storm water systems.

# SCHEDULE

## MONDAY, APRIL 18, 2011 – SALON KL

- 7:00 a.m..... Continental Breakfast – Foyer KL
- 8:00 a.m..... **JOINT MEETING OF PIPE AND RESIN PRODUCERS, ASSOCIATE, INTERNATIONAL, LICENSING AND CERTIFICATION/TESTING MEMBERS.**  
Introduction of new members.  
Brad Corbett Jr., Board Member
- 9:00 a.m..... **UPDATE FROM THE EUROPEAN PLASTIC PIPE MARKET**  
Jos Oosterik, Area Manager Technology, Wavin Overseas B.V.  
– The Netherlands  
Current status and outlook on PVC pipe in Europe, highlighting new developments and reactions from around the world.
- 9:25 a.m..... **PVC: KEY DRIVERS AND TRENDS, FEEDSTOCK'S OUTLOOK AND WORLDWIDE ECONOMIC FACTORS**  
Nick Vafiadis, Business Director, Polyolefins, Chemical Market Associates, Inc.  
A look at capacity and demand in the global thermoplastics marketplace.
- 10:00 a.m..... Break – Foyer KL
- 10:20 a.m..... **LATEST TECHNOLOGY FOR PVC-O PIPES**  
Ignacio Muñoz, CEO, Molecor Tech  
Learn about Molecor's revolutionary, air-based system for manufacturing PVC-O pipe.
- 10:50 a.m..... **CHANGING PERCEPTIONS: PVC PIPE'S GREEN FUTURE IN AUSTRALIA**  
Mark Heathcote, Executive General Manager, Plastics Industry Pipe Association of Australia (PIPA).  
A discussion on the Green Building Council of Australia's decision to remove the PVC minimization clause from its green building rating tool – "Green Star" (similar to LEED).
- 11:20 a.m..... **A REVOLUTION IN LOCATING PLASTIC PIPE**  
Edwin Scott, Business Unit Manager, 3M Track & Trace Solutions  
A look at cutting-edge technology that will allow underground plastic pipes to be located along their entire length without using expensive tracer wire.

## SOCIAL ACTIVITIES

- 10:00 a.m. - 11:00 a.m..... **SPOUSAL ORIENTATION – SALON J**  
Presentation by the concierge on spa services, hotel and local activities.  
Refreshment and pastries provided.
- 5:00 p.m. - 7:00 p.m..... **WELCOME & NETWORKING RECEPTION – BILL'S GRILL**  
Attire is business casual/slacks - no jeans.  
Sponsors: 3M Track & Trace Solutions, Arkema Inc. and Specified Fittings, Inc.

## TUESDAY, APRIL 19, 2011 – SALON KL

7:00 a.m.....	Continental Breakfast – Foyer KL
8:00 a.m.....	Introductions/Chair’s Remarks
8:15 a.m.....	<b>ALIGNING STRATEGICALLY ON THE VALUE OF WATER</b> Erika Berlinghof, Director of Government & Industry Relations, National Association of Water Companies (NAWC) How PVC pipe producers and private water industries can work together on legislative and industry growth initiatives.
8:50 a.m.....	<b>PREDICTING STRESSES IN PVC PIPE</b> Steven Folkman, Ph.D., Associate Professor at Utah State University and Director of the Buried Structures Research Lab. Understanding stresses in PVC pipe and how to optimize its performance: an engineering review.
9:25 a.m.....	<b>BLOWING THE DOORS OPEN AND CAPTURING PUBLIC ATTENTION</b> Jeff Chatterton, Risk & Crisis Communications Consultant Knowing PVC is the better piping material is not enough. It’s your call – you can seize the opportunities, or complain about lost business. What’s it going to be?
10:00 a.m.....	Break – Foyer KL
10:20 a.m.....	<b>CERTIFICATION REQUIREMENTS FOR DIFFERENT PIPE MATERIALS</b> Nasrin Kashefi, General Manager of NSF Plumbing Program, NSF International An overview of NSF International’s certifications relating to health effects and the mechanical performance of piping systems, including certifications for potable water piping and the benefits of NSF certification for PVC pipe.
10:55 a.m.....	<b>UNI-BELL CAPITOL HILL UPDATE</b> Tim Burns, Government Relations Consultant Learn about Uni-Bell’s activities in Washington aimed at securing open procurement and fair competition requirements for federal funds tied to underground infrastructure projects.
11:25 a.m.....	<b>THE IMPORTANCE OF PIPE LONGEVITY IN ASSET MANAGEMENT PLANNING: A CFO’S PERSPECTIVE</b> Gregory Baird, Managing Director/CFO of AWI (Aging Water Infrastructure) Consulting, LLC, and former CFO, City of Aurora/Aurora Water, CO. The underground infrastructure crisis and the need for life-cycle procurement policies and cost estimates for better capital investment decision making.

## SOCIAL ACTIVITIES

12:30 p.m.....	<b>UNI-BELL GOLF TOURNAMENT – GOLF STAGING AREA/CANYON COURSE</b>
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# SCHEDULE

## WEDNESDAY, APRIL 20, 2011 – SALON KL

7:00 a.m.....	Continental Breakfast – Foyer KL
7:45 a.m.....	Executive Director’s Report: Bruce Hollands, Uni-Bell Operating Committee Report: Jeff Phillips, IPEX, Inc. Regional Engineer Report: Will Fassler, West-Mountain, Uni-Bell Regional Engineer Report: Steve Cooper, East/Central Region, Uni-Bell Handbook of PVC Pipe Committee Report: John Houle, IPEX Management Inc. Resin Producers, Associates, International, Licensing and Certification/Testing Members’ Report: Brad Corbett, Jr., S & B technical Products
8:30 a.m.....	<b>CHANGING THE DEBATE</b> <b>Chris Cupit, President of CMS, Inc.</b> Creative and strategic communications tools that can be used to garner media exposure, shift the debate and foster a more favorable business climate for industry.
9:00 a.m.....	<b>THE VINYL INDUSTRY IN 2011</b> <b>Allen Blakey, Vice President of Industry and Government Affairs of The Vinyl Institute</b> The latest developments and issues facing the North American PVC/vinyl market.
9:30 a.m.....	<b>TAXPAYERS AND THE BUSINESS COMMUNITY: BUILDING A SUCCESSFUL PARTNERSHIP</b> <b>Pete Sepp, Executive Vice President, National Taxpayers Union (NTU)</b> Key reforms and strategies that could benefit taxpayers and the PVC pipe industry in addressing the underground infrastructure crisis.
10:00 a.m.....	Break – Foyer KL
10:15 a.m.....	<b>WHAT’S NEW WITH PLASTIC PIPE STANDARDS?</b> <b>John Houle, Market Development Manager – Bionax PVC Pipe, IPEX Management Inc.</b> Why municipal standards for North American plastic pipe got out-of-phase, how they re-aligned, and how recent developments in the HDPE industry are confusing the issue.
10:45 a.m.....	<b>SPECIAL GUEST SPEAKER</b>
11:45 a.m.....	<b>CLOSING REMARKS, VESO SOBOT, UNI-BELL CHAIR</b>
12:30 p.m.....	<b>BOARD OF DIRECTORS’ MEETING AND LUNCHEON – SANTA RITA ROOM</b>

## SOCIAL ACTIVITIES

6:30 p.m. - 9:00 p.m.....	<b>GRAND FINALE DINNER – VENTANA DINING ROOM</b> Attire is cocktail/sports jacket - tie optional. <b>Sponsor: 3M Track &amp; Trace Solutions</b>
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## PVC PIPE: BEST CHOICE FOR THE ENVIRONMENT

PVC piping is one of the world's most sustainable products, making it ideal for long-term use in underground infrastructure. It requires less energy and fewer resources to manufacture than old-technology materials, and its production creates no debris and little pollution.

Moreover, it is produced with sustainable and abundant resources: chlorine, which is derived from salt, and domestically produced natural gas, which helps reduce consumption of imported oil.

**For real sustainability, long-term performance and efficient resource management is critical...**

### CLEAN AND SAFE MANUFACTURING

PVC pipe manufacturing is extremely efficient, with virtually 100 percent of the PVC compound being used. It takes four times less energy to make than concrete pipe, and half that used for iron pipe.

There are no smoke stacks at PVC pipe facilities and the product is completely recyclable, making its environmental footprint far smaller than competing piping materials. Contrast this with the cement industry – the third-largest emitter of greenhouse gases in the world.

PVC pipe's ecological credentials have been demonstrated by numerous life-cycle assessments, which scientifically assess the impact of a product, from raw material extraction to end-of-life.

And since sustainability involves a social dimension, it's important to look at it in terms of human resources and worker safety. According to the United States Bureau of Labor, the plastic piping industry has an outstanding record in this area, experiencing far fewer injuries and illnesses in every phase of production, on average, than similar industries.

### A SMALLER HUMAN FOOTPRINT

PVC pipe's ultra-smooth surface reduces pumping costs and its leak-free joints eliminate water loss – which can be up to 40 percent in some old-technology and corrosion-prone piping networks. The American Society of Civil Engineers estimates that 2.6 trillion gallons of potable water are lost every year through leaking pipes, or 17 percent of all water pumped in the U.S.

But PVC pipe's greatest environmental attribute is perhaps its exceptional durability and corrosion resistance – leading to better water conservation and lower replacement, maintenance and repair costs. A study by the American Water Works Association Research Foundation recently put the life expectancy of PVC pipe at more than 110 years. Its light weight and ease of installation reduce transportation and installation costs, yielding further benefits to the environment.

### TWO MILLION MILES OF SUSTAINABLE PIPING

PVC leads all other piping materials in sustainability. Its durability, soundness, clean and energy efficient manufacture and transportation have made it the material of choice for water and wastewater applications. Today, more than two million miles of PVC pipe are in service throughout North America – helping build a greener tomorrow.

# ATTENDEES BY COMPANY

**\*\*3M Track & Trace Solutions**  
Steve Bartingale  
St. Paul, Minnesota

**\*\*3M Track & Trace Solutions**  
\*Edwin Scott  
Austin, Texas

## A

**American Maplan Corp.**  
Paul Godwin  
McPherson, Kansas

**American Maplan Corp.**  
Kurt & Tresa Waldhauer  
McPherson, Kansas

**Arkema Inc.**  
Kimberly Litz  
Aliquippa, Pennsylvania

**Arkema Inc.**  
James P. McAliney  
Aliquippa, Pennsylvania

**AWI Consulting, LLC**  
\*Gregory Baird  
Modesto, California

## B

**\*\*Baerlocher USA LLC**  
Patrick Hazlewood  
Cincinnati, Ohio

**The Burns Group**  
\*Tim Burns  
Arlington, Virginia

## C

**CertainTeed Corporation**  
Joe Bondi  
Valley Forge, Pennsylvania

**CertainTeed Corporation**  
Steve & Cheryl Gross  
Valley Forge, Pennsylvania

**Checkmate Public Affairs**  
\*Jeff Chatterton  
Ontario, Canada

**Cincinnati Milacron**  
Tim Newhart  
Bedford, Texas

**Chemical Market Associates, Inc.**  
\*Nick Vafiadis  
Houston, Texas

**CMS, Inc.**  
\*Chris Cupit  
Alexandria, Virginia

**\*\*\*Canadian Plastics Industry Association**  
Marion Axmith  
Mississauga, Ontario

**\*\*CSA International**  
Franco DiFolco  
Toronto, Ontario

## D

**Diamond Plastics Corp.**  
Dennis Bauer  
Grand Island, Nebraska

**Diamond Plastics Corp.**  
Ron & RosaLee Bishop  
Grand Island, Nebraska

**Diamond Plastics Corp.**  
John & Sharon Britton  
Grand Island, Nebraska

**Diamond Plastics Corp.**  
Jerry Parkinson  
Grand Island, Nebraska

**The Dow Chemical Co.**  
Chris Gill  
Philadelphia, Pennsylvania

**The Dow Chemical Co.**  
Vernon Weber  
Fort Worth, Texas

**\*\*\*DuPont Titanium Technologies**  
Andy Feng  
Wilmington, Delaware

## E

**EBAA Iron Sales, Inc.**  
Dave Eckstein  
Williamston, South Carolina

## F

**Formosa Plastics Corp.**  
Terry Chadwick  
Livingston, New Jersey

**Formosa Plastics Corp.**  
Dick Heinle  
Livingston, New Jersey

## G

**\*\*\*Georgia Gulf Corp.**  
Alan Chapple  
Atlanta, Georgia

## H

**Holland Colours Americas**  
Tineke & Ypke Veldhuis  
Richmond, Indiana

**Honeywell**  
Fred Durrenberger  
Columbia, Missouri

## I

**IPEX, Inc.**  
Andre Battistin  
Verdun, Quebec

**IPEX Management Inc.**  
\*John Houle & Daphne Turner  
Mississauga, Ontario

**IPEX Management Inc.**  
Veso Sobot  
Mississauga, Ontario

## J

**JM Eagle**  
Neal Gordon  
Los Angeles, California

**JM Eagle**  
Randall Sackewitz  
Adel, Georgia

## K

**KibbeChem, Inc.**  
Tony & Lois Williams  
Elkhart, Indiana

## M

**\*\*MaxSeal**  
Gary & Connie Cline  
Lafayette, Colorado

**\*\*Molecor Tech**  
\*Ignacio Muñoz  
Madrid, Spain

# ATTENDEES BY COMPANY

## N

### National Association of Water Companies

\*Erika Berlinghof  
Washington, D.C.

### National Pipe & Plastics Inc.

Dave Culbertson  
Vestal, New York

### National Pipe & Plastics Inc.

Wayne Voorhees  
Vestal, New York

### National Taxpayers Union

\*Pete Sepp  
Alexandria, Virginia

### North American Pipe Corp.

Michael Mattina  
Houston, Texas

### North American Pipe Corp.

Matt Siegel  
Houston, Texas

### \*\*NSF International

Ata Ciechanowski  
Ann Arbor, Michigan

### \*\*NSF International

Robert Ferguson  
Ann Arbor, Michigan

### \*\*NSF International

\*Nasrin Kashefi  
Ann Arbor, Michigan

## O

### OMYA Inc.

Rabun Lewis  
Cincinnati, Ohio

### OMYA Inc.

Ed Raymond  
Proctor, Vermont

### OxyVinyls LP

Hank Giovannelli  
Hoffman Estates, Illinois

### OxyVinyls LP

Barry Hendrix  
Dallas, Texas

## P

### Plastics Industry Pipe Association of Australia Ltd.

\*Mark & Karen Heathcote  
Chatswood, Australia

### Pipeline Jet Stream, Inc.

Greg & Melissa Cady  
Siloam Springs, Arkansas

### Pipeline Jet Stream, Inc.

Alain Storet  
Siloam Springs, Arkansas

### \*\*\*Plasmec USA

Jeff Hill  
San Clemente, California

### Prabhat Industries LLC

Yogesh Dhruv  
Duluth, Georgia

## R

### \*\*\*Rheogistics LLC

Robert Kwapisz  
Picayune, Mississippi

### \*\*\*Rheogistics LLC

Tom Pedersen  
Picayune, Mississippi

### \*\*\*Rollepaal USA, Inc.

R.G. Spekrijse  
Dedemsvaart, O.V.

### Royal Pipe Systems

Paul J. Czachor  
Woodbridge, Ontario

## S

### S&B Technical Products

Brad Corbett, Jr.  
Fort Worth, Texas

### S&B Technical Products

Brad Corbett, Sr.  
Fort Worth, Texas

### S&B Technical Products

James Jones  
Fort Worth, Texas

### Sanderson Pipe Corp

Robert Eberle  
Sanderson, Florida

### \*\*\*Sasol Wax North America Corporation

Michael Orzech  
Hawthorn Woods, Illinois

### Shintech, Inc.

Dick Mason  
Houston, Texas

### Shintech, Inc.

Sylvia Moore  
Copley, Ohio

### Specified Fittings, Inc.

Gregory & Kathleen Gundel  
Bellingham, Washington

## U

### Underground Solutions, Inc.

Bob Walker  
Poway, California

### Uni-Bell PVC Pipe Association

Steve & Lisa Cooper  
Dallas, Texas

### Uni-Bell PVC Pipe Association

Will & Ardetta Fassler  
Dallas, Texas

### Uni-Bell PVC Pipe Association

Bruce & Rosanne Hollands  
Dallas, Texas

### Uni-Bell PVC Pipe Association

Holly Sharr  
Dallas, Texas

### Uni-Bell Legal Counsel

George E. (Ned) Rahn & Deborah Reissmann  
Philadelphia, Pennsylvania

### Utah State University

\*Steven Folkman, Ph.D.  
Logan, Utah

## V

### The Vinindex Pty Ltd

Marian & Cassie Johnston  
Brisbane, QLD

### The Vinyl Institute

\*Allen Blakey  
Alexandria, Virginia

## W

### Wavin Overseas B.V.

\*Jos Oude Oosterik  
Dedemsvaart, The Netherlands

### Westlake Chemical

Mark Grudzien  
Houston, Texas

\*Speaker

\*\*New Member

\*\*\*Guest

## **PVC PIPE: SAFE AND BENEFICIAL TO PUBLIC HEALTH**

PVC pipe is one of the safest and most tested materials used in North America. For over 60 years, every aspect of its production, use and disposal has been evaluated and approved by government and independent certification and testing agencies.

It meets or exceeds all required health and safety standards and regulations governed by the U.S. and Canadian Safe Drinking Water Acts and other international statutes. Its use is monitored by independent agencies like NSF International – and government bodies like the U.S. Environmental Protection Agency (EPA) ensure its safety through mandatory regular testing.

Additionally, organizations like the U.S. Food and Drug Administration and Consumer Product Safety Commission have confirmed that PVC is a safe product.

### **CLEAN AND SAFE**

PVC is approved for use around the world in water distribution and transmission, consumer products and medical applications. It is so safe that it is used for intravenous medical tubing, and it is the pipe of choice for ecologically sensitive environments like salt water aquariums, which must use the most inert and safest pipe materials available.

Its smooth, non-corrosive surface stays clean even after decades of use, unlike that of iron pipe which suffers from tuberculation, a form of internal corrosion and bio-film contamination which can be a breeding ground for bacteria.

The town of Walkerton, Ontario provides a case in point. In 2000, E-coli had infiltrated the municipality's iron-pipe water network, and purging it from the system was extremely difficult. Only after repeated and costly flushing with super-chlorination was the piping system safe to use again. Today, Walkerton, now part of the Municipality of Brockton, is replacing all its iron pipes with PVC.

### **THE REAL SCIENCE ON PVC**

Despite its proven safety record and meticulous monitoring, ill-informed and unscientific allegations about PVC persist.

Claims that it's toxic have been refuted by the scientific community and people like Greenpeace co-founder Dr. Patrick Moore. The evidence shows it neither leaches toxic chemicals like lead, cadmium, BPA or plasticizers, nor does it release harmful organotins, nor pose major hazards in its manufacture, use and disposal, nor create a dangerous bio-film nor form dioxins as water passes through, etc.

Moreover, it's impossible for PVC pipe to leach plasticizers, BPA, lead or cadmium, since these aren't even used in its manufacture nor are they part of its compound. Says Dr. Moore in his book, *Confessions of a Greenpeace Dropout*, such claims come from "a kind of religion based on belief rather than facts or evidence."

Finally, not only is dioxin not produced as it passes through PVC pipe, but claims that PVC manufacturing is a major dioxin polluter are also false. Forest fires, backyard burning and other manufacturing processes are the major contributors of dioxin.

### **MORE THAN ONE MILLION MILES OF SAFE WATER TRANSMISSION**

Over 40,000 North American water utilities use PVC pipe today, and more than one million miles are in service – or about 78 per cent of all new drinking water distribution pipes installed on the continent. Some 10 million quality control tests have been conducted on water carried through PVC pipe since it was introduced in North America and around the world. All of them confirm the product is safe and beneficial to public health.



## PVC PIPE: HIGH QUALITY AND PERFORMANCE STANDARDS

The quality and performance of PVC pipe are assured by a wide array of tough standards, control tests and independent certifications.

### INDEPENDENT CERTIFICATION

Numerous standards agencies govern PVC pipe manufacturing. The most widely recognized of these for water and sewer applications are the American Waterworks Association (AWWA), the American Society of Testing and Materials (ASTM) and the Canadian Standards Association (CSA). For potable water quality, the best known certification is provided by NSF International/American National Standards Institute (NSF/ANSI). A comprehensive list can be found in the *Handbook of PVC Pipe*.

In cooperation with users, designers and manufacturers, including the Uni-Bell PVC Pipe Association, these agencies offer an independent assurance of sound engineering, appropriate testing and good quality – as well as information on installation.

### EXTENSIVE QUALITY CONTROL

PVC pipe undergoes numerous quality control tests, including regular measurements of critical dimensions, tests for extrusion quality, pipe flattening, burst pressure, impact resistance, joint integrity, and hydrostatic soundness. This ensures optimum quality, reliability and long-term strength.

For instance, AWWA C900 pipe receives a minimum of 28 quality control checks daily on each extrusion line, in addition to the hydrostatic proof test performed on each pipe, which is tested at twice its pressure rating – confirming the product exceeds performance requirements. See Chapter IV of the *Handbook of PVC Pipe* for more details on manufacturing and testing.

Each PVC pipe is stamped with extensive information, including production or lot code, allowing it to be matched with applicable quality records, which are maintained for a minimum of two years.

### THIRD-PARTY INSPECTION

Independent inspection provides added assurance that PVC pipe meets applicable standards and specifications. This is done through unannounced plant audits, verification of materials, procedures and test equipment, as well as through random sampling and testing of pipe and materials.

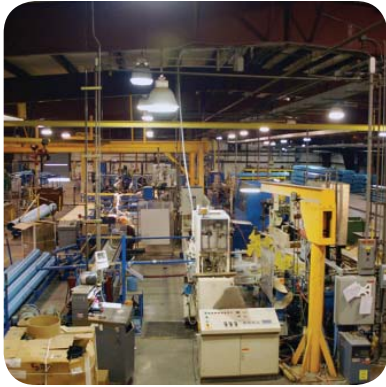
Tests are performed by non-profit agencies such as NSF International, Underwriters Laboratories and the International Association of Plumbing and Mechanical Officials, which can prevent shipment and initiate recall of nonconforming products.

Further scrutiny of PVC pipe performance is provided through testing and research by universities, laboratories and other water and sewer associations. Many of their reports are available in Uni-Bell's technical library.

### TWO MILLION MILES OF UNSURPASSED RELIABILITY

PVC pipe's superior qualities and performance have made it the material of choice for water and wastewater systems since it was introduced in North America some 60 years ago. Today, more than two million miles of PVC pipe are in service throughout the continent.

# ABOUT US



## 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.

## UNI-BELL'S MAJOR GOALS

1. **MARKET SUPPORT:** Identify, analyze and capitalize on opportunities to preserve and expand markets for PVC pipe.
2. **ISSUES MANAGEMENT:** Monitor and influence public issues that affect Association members.
3. **TECHNICAL SUPPORT:** Collect, interpret and disseminate technical information on industry products and their applications.
4. **EDUCATION:** Enhance knowledge and awareness of groups and individuals responsible for the promotion and use of PVC pipe.
5. **STANDARDS AND SPECIFICATIONS:** Promote and assist in the development of standards, specifications and practices that encourage proper use of PVC pipe.
6. **ORGANIZATIONAL RELATIONSHIPS:** Maintain cooperative relationships and activities with allied organizations in pursuit of Uni-Bell's mission.
7. **INDUSTRY STATISTICS:** Lawfully gather, consolidate and disseminate industry sales, marketing and production data.
8. **NETWORKING AND FORUMS:** Encourage member interaction and understanding of issues and trends affecting the industry.
9. **ORGANIZATIONAL COMPETENCY:** Maintain an organizational structure that reflects the highest levels of volunteer and professional staff competency.

## 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.

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