

# IAPMO INNOVATION AND RESEARCH FUND





## We are ...

... a dedicated resource to fuel pioneering research, devise innovative solutions and launch impactful initiatives in the arenas of water, plumbing and mechanical to help improve public health, climate resiliency and housing affordability.

## You are ...

... leading-edge companies and organizations in the plumbing and mechanical industry, academic institutions, and philanthropic groups/ individuals who believe in the power of technological innovation to improve the quality of life in the communities where we live and work.

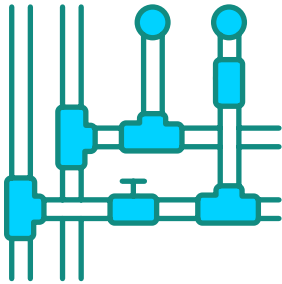
## Together we ...

- ... promote clean water access and environmental equity
- ... advance development of smart water technology and innovative plumbing systems
- ... devise solutions to mitigate waterborne pathogens
- ... address the impacts of drought and climate change
- ... create community resiliency
- ... strengthen plumbing workforce development and diversity



### Water + Health:

Research new methodologies that improve water quality and develop methods to deliver water that promotes human health and safety.



### Innovative New Systems:

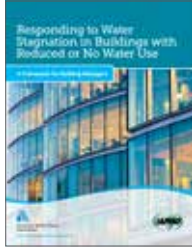
Investigate and promote efficient systems and best practices to help address water scarcity, ensuring sustainable utilization for future generations.



### New Tools

Increase usage of accurate pipe sizing measurement.

## Completed Technical Research: Commercial/Multifamily



### Manual of Recommended Practice for the Safe Closure and Reopening of Building Water Systems:

A decision-making framework for building managers to design responses to building water system stagnation, with guidance on building water system safety.



### The Drainline Transport of Solid Waste in Buildings:

Detailed testing methodologies, analyses, and findings from the drainline transport research.



### The Drainline Transport of Solid Waste in Buildings - Phase 2.0:

Demonstrated how a commonly suggested pipe size reduction will impact drainline transport.



### Storm System Piping and Roof Drain Flow Rates:

Research on sizing requirements of storm piping and drains, ensuring storm systems are appropriately sized.



### Adaptive Reuse of Commercial to Residential:

White paper on plumbing/mechanical provisions to lower construction costs to promote affordable housing.



Scan the QR code for more information or to download the white papers.

## Completed Technical Research: Residential



### A Review of Connection Fees and Service Charges by Meter Size

Provided a better understanding of the range of connection fees and recurring service charges related to Metropolitan meter size.



### Recommended Installation Practices for Residential Storage Type Water Heaters to Reduce the Danger of Scalds



### Energy and Carbon Savings Opportunities



### Studies Detail the Cost Saving Potential of the Water Demand Calculator



### Peak Water Demand Study:

Revised methodology for properly estimating premise water supply demands in response to the increased use of water-conserving plumbing fixtures, fixture fittings, and appliances, and the subsequent decreased demand.



### Water Demand Calculator Study:

Developed prototype plumbing plans for single-family, 6-unit, and 45-unit family residences using updated cold and hot water sizing criteria.



Scan the QR code for more information or to download the white papers.

## In Process Research



### Hot Water Systems Research:

Collaboration with PGE on mockup of a 32-unit apartment to make hot water return systems safer and more efficient.



### Data Collection for the Water Demand Calculator, Commercial Building Pipe Right Sizing:

Peak flow rate or plumbing fixture on/off frequency data use to right-size domestic water systems.



### Storm System Piping and Roof Drain Flow Rates:

Continued research on sizing requirements of storm piping and drains, ensuring storm systems are appropriately sized.



### Water Age:

Leading development of water quality parameters basics for plumbing industry professionals' awareness.

Additional research topic welcome.

Be a part of industry leading events on the international, national and local stage with top policymakers.



Asia Pacific Economic Cooperation (APEC)



Capitol Hill



United Nations



U.S. Department of Agriculture (USDA)



National Water Conference



Capitol Hill



Environmental Protection Agency (EPA)

## Have a voice shaping policy to impact reports and research



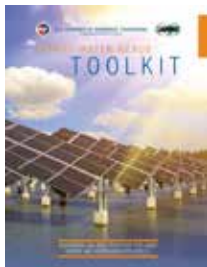
### **Closing the Water Access Gap in the United States:**

Analyzed the available quantitative data to close the gap for more than two million Americans who live without running water, basic indoor plumbing, and sanitation.



### **Draining: The Economic Impact of America's Hidden Water Crisis:**

Quantified the economic benefits of closing the water access gap.



### **Energy-Water Nexus Toolkit:**

Illustrated how to pursue more efficient resource management and offers practical solutions to different Energy-Water Nexus challenges.



### **Reforming National and State Policies to Reduce Inequity of Safely Managed Sanitation in the United States:**

Actionable opportunities to help ensure resources reach communities that need them most.



## IAPMO collaboration in shaping policy through strategic working groups and partnerships



### **The National Water Reuse Action Plan (WRAP):**

Brings local and national partners together to ensure water reuse is accessible, straightforward to implement, and sensitive to climate and environmental justice considerations.



### **Plumbing Standardization in Africa:**

Legislative and regulatory review of policies governing the plumbing industry in Africa in partnership with CWSC, ANSI and USAID.



### **U.S. Government Plumbing Research**

Support increased industry collaboration with federal plumbing research initiatives, including those with the National Institute of Standards and Technology's Plumbing Research Lab.



### **Pacific Institute Water Use Efficiency Advisory Group:**

IAPMO is an Advisory Group Member providing expertise for national assessment on the potential for U.S. urban water-use efficiency.



### **Water Reuse in Healthcare Facilities (In collaboration with Water Reuse Association):**

Collaborative white paper researching the opportunity in utilizing water reuse to promote safer buildings, particularly in healthcare and hospitality.

With a vision of advancing the plumbing, mechanical and building industries to meet contemporary challenges and future demands, the IAPMO Innovation and Research Fund stands as a testament to IAPMO's commitment to the future of our industry. By catalyzing advancements, fostering collaboration, and channeling expertise toward innovation, we seek to shape an industry that is resilient, innovative, and always forward-looking.

## **Support Industry Research Fund**

Industry-leading research fuels the future of your business, but your contributions to the IAPMO Innovation and Research Fund are not just financial; they are a pledge to the betterment of our industry, society and planet. We invite all who share our vision to join us in this critical endeavor, ensuring that the plumbing industry remains a cornerstone of sustainable development and progress for generations to come.

**BENEFITS INCLUDE\***

	PLATINUM \$100k	GOLD \$50k	SILVER \$10k	Bronze \$2500
Acknowledgment in IAPMO communications materials	●	●	●	●
Branding featured on IAPMO promotional materials	●	●	●	
Logo featured on event signage	●	●	●	
Receive turnkey stakeholder project social media posts	●	●	●	
Boosted branded social media posts	●	●		
Receive turnkey stakeholder project reports/presentations	●	●		
Organization attributions on related white papers, reports and studies	●	●		
Recognition at key public awareness activities	●			

\* Donations to the Innovation and Research Fund (IRF) have no effect on a donor’s position or treatment with respect to other IAPMO or IAPMO subsidiaries’ accredited programs, including codes and standards development, product testing, and product certification. Donations to the IRF are allocated solely to the IRF’s projects and programs.

## FOR MORE INFORMATION

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