



PUMPS & PIPES®
INNOVATION. ON DEMAND.

ANNUAL EVENT

2023

PROBLEM XCHANGE
WHERE SOLUTIONS CONVERGE

DECEMBER 4
8:00AM - 5:00PM

ION 4201 Main Street,
Houston, TX 77002

REGISTER
HERE



P U M P S A N D P I P E S 2 3 . C O M

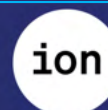


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AGENDA

DECEMBER 4
8:00AM - 5:00PM



4201 Main Street,
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7:30 AM -
8:15 AM

Registration and Breakfast

Event Emcee - Joey Sanchez, Sr. Director of Ecosystems, Ion Houston

8:15 AM -
8:30 AM

Pumps & Pipes Welcome and Introduction

Alan Lumsden, MD, Chair of Cardiovascular Surgery and Director of the DeBakey Heart & Vascular Center, Houston Methodist

8:30 AM -
9:00 AM

Vitals. Integrated. Everywhere.

Sarah Pletcher (Moderator), MD, System VP & Executive Medical Director for Strategic Innovation, Houston Methodist

Jim Mault, MD, CEO and Chairman, Biointellisense

Dave Hughes, PhD, CEO, Novosound

9:00 AM -
9:30 AM

Sustainability in Action: BIG Houston Projects

Jason Fischer (Moderator), MBA, Director, Office of Sustainability, Houston Methodist

Alim Adatia, JD, Sr. Director, Sustainable Infrastructure, Johnson Controls

Ryan Walsh, CEO and Executive Director, HCSCC-NRG Park

Chris Wood, JD, Co-Founder, Moonshot Compost & Hydrogen

9:30 AM -
10:25 AM

What's Your Problem?

Marissa Rosenberg, PhD, Sr. Medical Research Engineer, SpaceX

Trisha Roy, MD/PhD, Vascular Surgeon-Scientist, Houston Methodist

Mike Francis, MBA, CEO and Co-Founder, Nanotech

10:25 AM -
10:30 AM

Greater Houston Partnership Announcement

Craig Rhodes, MBA, VP, Regional Economic Development, Greater Houston Partnership

10:30 AM -
11:30 AM

Super Mingle & Exhibitors

Energy Underground (room 29-30); Health & MedTech (Houston Methodist Tech Hub); Aerospace (room 31); Rice ENRICH showcase - posters and demos (room 27); Exhibitors (various rooms & flex space)

11:30 AM -
12:30 PM

Lunch Break (box lunches provided)

VIP Lunch (Speakers & Sponsors) | 11AM - 1PM | Lymbar

12:30 PM -
1:25 PM

Looking in the Rice Toolbox: Quick Fire Pitches

Adrian Trömel (Moderator), MBA, AVP Strategy & Investments, Rice University

1. Behnaam Aazhang - Engineering and medicine: how technology can help mitigate neurological disorders

2. Adam Farsheed - Amino: 3D printing human tissues for drug development

3. Eugene Chu - Engineering cells for chemical reactions: gas filled vesicles

4. Wil Thomason - High-Performance, low-cost robot motion planning

5. Jeremy Daum - Simple solution for a big problem: innovation in PFAS remediation

6. Elsa Acosta & Wonil Sohn - Next generation cochlear implants

7. Barclay Jumeat & Dan Preston - Wearable haptic devices that look and feel like everyday clothing

1:25 PM -
1:30 PM

Pumps & Pipes Wrap Up and Call to Action

Stephen Igo and William Kline, Pumps & Pipes Co-Founders and Directors

Nicole Pardo, MD/MBA/MS, Senior Consultant, HealthTech Solutions

1:30 PM -
3:30 PM

Super Mingle & Exhibitors

See reserve side for details

2:30 PM -
3:30 PM

The Bear and the Butterfly

Mark Hannigan (Moderator), CEO of Fortior Ventures & Partner at Greenbackers Investment Capital

Matt Byrne, Open Innovation Manager, Technip FMC

Michelle Stansbury, VP Innovation and IT Applications, Houston Methodist

3:30 PM -
5:00 PM

Happy Hour at Second Draught

Light bites and 1 drink ticket included

SUPER MINGLE & EXHIBITORS

1:30 PM – 3:30 PM	Energy Underground (room 29-30) - Moderator: Kevin Doffing	
	Decarbonization in Action	Paul Hughes , Technology Manager, Subsea7 Shankar Nadarajah , Global Drone Program Manager, Exxon
	Digital Twins in the Industrial Environment	Kelly Watt , Digital Twin and AI/ML Programs, DFW Airport
	Aerospace (room 31) - Moderator: Jennifer Lopez	
	Monitoring Intracranial Pressure	William Tarver , MD, Flight Surgeon and SANS CNS Clinician, NASA
	Lunar Dust Mitigation	Kristen K. John , PhD, Technical Integration Manager for Lunar Dust Mitigation, Space Technology Mission Directorate, NASA
	In-Space Production Applications (InSPA)	Matthew Wallace , Project Manager, InSPA, The Aerospace Corporation
	Health & MedTech (Houston Methodist Tech Hub) – Moderator: Stuart Corr	
	Problems in Cardiovascular Surgery	Maham Rahimi , MD/PHD, Associate Professor of Cardiovascular Surgery, Dept. of Cardiovascular Surgery, Houston Methodist
	Generative AI & Web3: Tools, Tips & Tricks	Giorgio Villani , Founder, Spindletop Digital LLC
	Rice University ENRICH Showcase (room 27) – Moderator: Sharon Pepper	
	Research @ Rice (Topics Below)	Sharon Pepper , EdD/MBA, Executive Director, Educational and Research Initiatives for Collaborative Health (ENRICH), Rice University
Exhibitors (various rooms & flex space)		
BigRio, CAE Healthcare, FundamentalVR, Hobas Pipe, Mark III Systems, MEDU Protection, Novosound, Pariveda Solutions, RapidAI, Rice University Jones Business School, Starling Medical, Theator, Tienovix		

RICE UNIVERSITY ENRICH SHOWCASE

Department/Lab Name	Lab Contact	Poster Presenters
Microtechnologies Laboratory for Pediatric Oncology	Julea Vlassakis	Jocie Baker
Szablowski Lab	Jerzy Szablowski	Zhimin Huang, Schuyler Link
Biswal Engineering Soft Matter Laboratory	Lisa Biswal	Dana Lobmeyer, Vy Nguyen
SCOPE Lab	Shengxi Huang	Jeewan Ranasinghe
Halas Lab	Jessica Serrano	Yigao Yuan
EQUAL (Emerging Quantum and Ultrafast Activity Laboratory)	Hanyu Zhu	Lissa Blackert
MAHI (Mechatronics and Haptic Interfaces) Lab	Marcie O'Malley	Elyce Chase, Elijah Rice, Lianne Johnson
Lillehoj Research Group	Peter Lillehoj	Clarke Wilkerson, Desh Dixit, Kavya Singampalli
Energy Systems Lab	Laura Schaefer	Kashif Liaqat
Preston Innovation Laboratory (PJ Lab)	Daniel J. Preston	Barclay Jmet
Hazzard Group	Zewen Zhang	Zewen Zhang



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"It was an incredible event. I'm still shaking my head at the number of excellent conversations and connections you all afforded us. The event was top notch and even though it went for 8 hours, I didn't want it to end."

Speaker

"During most of our conversations, there was a clear interest in visiting our manufacturing facility here in Houston to see how we manufacture. We would be happy to host a Pumps & Pipes tour!"

Exhibitor

"Congratulations to you and the Pumps & Pipes team for another successful event! It was our pleasure to support the event and we enjoyed the presentation, dialogue and networking."

Exhibitor

"Overall, I really enjoyed the event. Very thought-provoking and inspiring."

Attendee

"It was a pleasure participating and even more enjoyable to learn about the amazing work being done by everyone on the panel. I look forward to keeping in touch and possibly working together as well!"

Speaker

"Fantastic work, I was completely blown away by the event. Credit to how you organized it and more importantly who you brought in."

Moderator



ANNUAL EVENT 2023

OVERVIEW

**340+ ATTENDEES,
20 EXHIBITORS,
35 SPEAKERS**

SCAN TO VIEW
HIGHLIGHTS FROM
Pumps & Pipes 2023

ATTENDEES REPRESENTED THESE ORGANIZATIONS AND MORE:

- Aveva
- Axiom Space
- Baylor College of Medicine
- Biotex
- Booz Allen Hamilton
- bp
- CAE Healthcare
- Center for Houston's Future
- Climate Investment
- DPR Construction
- Euroleader
- ExxonMobil
- Galen Data
- Gensler
- GLG
- Gow Media
- Greater Houston Partnership
- Halliburton
- Hess Corporation
- Hilton
- Houston Angel Network
- Houston Fire Department
- IBM
- Ignite
- Ion Pro Services
- KBR
- Lumi Services
- Lutron
- MAN Energy Solutions
- McCoy Rockford
- MIT
- Multiphase Systems LLC
- NASA
- Noble Corporation
- Occidental
- Piping Technology & Products
- ReCardia Heart Sciences
- Rice University
- Royal Danish Consulate General
- Scottish Development International
- Softeq Development Corp.
- Space Center Houston
- Stryker
- TAMU School of Engineering Medicine
- TechnipFMC
- Texas A&M University Texas Heart Institute
- The Aerospace Corporation
- Texas Medical Center
- UTHealth
- VisCo
- XGS Energy

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PARTNERSHIP.



RICE UNIVERSITY
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*Educational and Research
Initiatives for Collaborative Health*

PARTICIPANTS



EXHIBITORS

