

# The ISPE Critical Utilities Community of Practice

Water, Steam, and Process Gases,  
but mostly water

Brian Hagopian, CPIP  
Critical Utilities COP Steering Committee  
ISPE Boston Chapter Past President

# What is an ISPE Community of Practice ?

A community of practice is a:

- A group of people sharing a similar interest or job function
- A forum to ask questions and get answers from industry experts
- A way to connect (or network) with people all over the world who share similar interests
- A group of people (or network) responsible for advancing the state of the art in a specific area

As an ISPE member, you can join any community of practice

[www.ispe.org](http://www.ispe.org)



CONNECTING  
PHARMACEUTICAL  
KNOWLEDGE

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ISPEAK BLOG | 30 JULY 2024

## The Future of ATMPs: Insights, Opportunities, and Innovations at the 2024 ISPE Annual Meeting

Globally, there is an increase in approved advanced therapy medicinal products (ATMPs), with thousands of therapies currently in various stages of pre-clinical and clinical development.

[Read More](#)

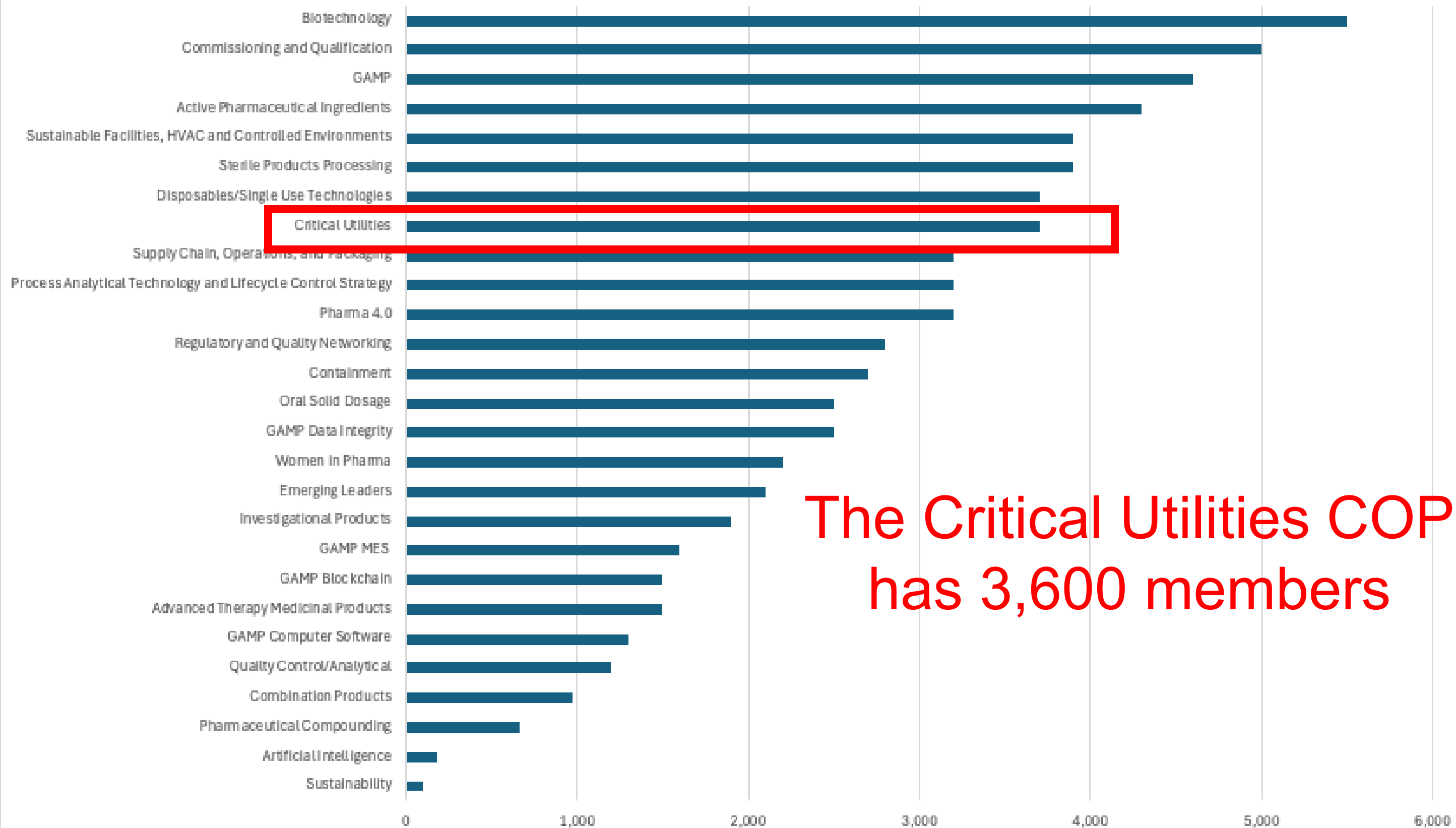
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- [Communities of Practice](#)
- [ISPE Engage Forums](#)
- [Affiliates and Chapters](#)
- [Women in Pharma](#)
- [Emerging Leaders](#)
- [Students](#)

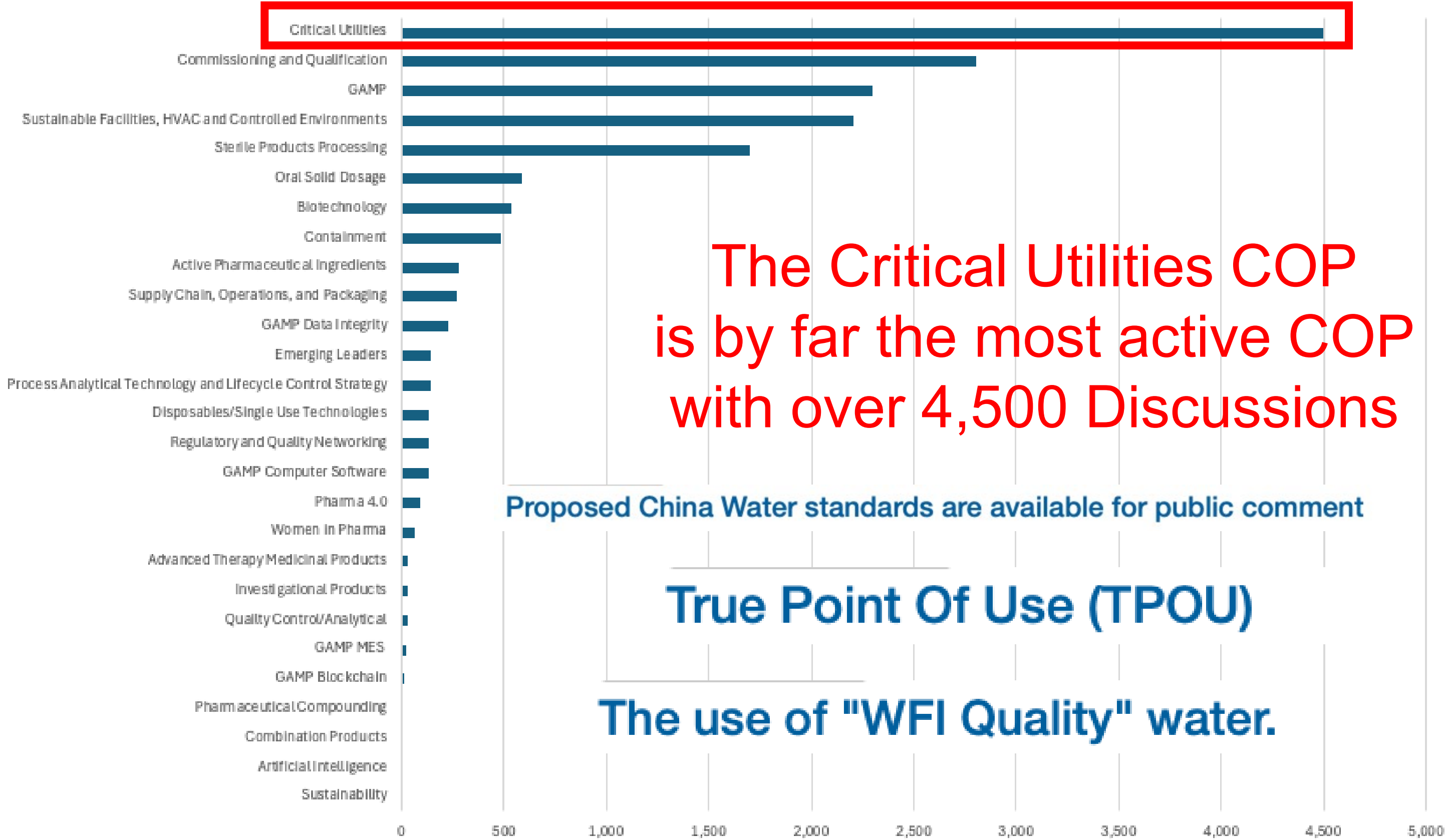
[2024 ISPE Annual Meeting & Expo](#)[View Agenda](#)[Guidance Documents](#)[75+ documents available](#)[Membership](#)[Join 22,000+ members](#)

<div>Active Pharmaceutical Ingredients</div> <div>Active Pharmaceutical Ingredients CoP</div> <div>last person joined yesterday</div>
<div>Advanced Therapy Medicinal Products (ATMPs)</div> <div>Advanced Therapy Medicinal Products (ATMPs) CoP</div> <div>last person joined yesterday</div>
<div>Artificial Intelligence</div> <div>Artificial Intelligence CoP</div> <div>last person joined yesterday</div>
<div>Biotechnology</div> <div>Biotechnology CoP</div> <div>last person joined yesterday</div>
<div>Combination Products</div> <div>Combination Products CoP</div> <div>last person joined yesterday</div>
<div>Commissioning &amp; Qualification</div> <div>Commissioning and Qualification (C&amp;Q) CoP</div> <div>last person joined yesterday</div>
<div>Containment</div> <div>Containment CoP</div> <div>last person joined yesterday</div>
<div>Critical Utilities</div> <div>Critical Utilities (CU) CoP</div> <div><div>member</div>last person joined yesterday</div>
<div>Disposables/Single-Use Technologies</div> <div>Disposables/Single-Use Technologies CoP</div> <div>last person joined yesterday</div>
<div>Emerging Leaders Community</div> <div>Emerging Leaders Community</div> <div><div>member</div>last person joined yesterday</div>

<div>GAMP</div> <div>GAMP CoP</div> <div>last person joined yesterday</div>
<div>GAMP Blockchain Special Interest Group</div> <div>Join the Blockchain Special Interest Group to learn more about blockchain inspired technologies.</div> <div>last person joined yesterday</div>
<div>GAMP Computer Software Assurance Special Interest Group</div> <div>GAMP Computer Software Assurance SIG</div> <div>last person joined yesterday</div>
<div>GAMP Data Integrity Special Interest Group</div> <div>GAMP Data Integrity SIG</div> <div>last person joined yesterday</div>
<div>GAMP MES Special Interest Group</div> <div>GAMP MES SIG</div> <div>last person joined yesterday</div>
<div>Investigational Products</div> <div>Investigational Products CoP</div> <div>last person joined yesterday</div>
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<div>Pharma 4.0</div> <div>Pharma 4.0 CoP</div> <div>last person joined yesterday</div>
<div>Pharmaceutical Compounding</div> <div>Pharmaceutical Compounding CoP</div> <div>last person joined yesterday</div>
<div>Process Analytical Technology &amp; Lifecycle Control Strategy</div> <div>Process Analytical Technology &amp; Lifecycle Control Strategy CoP</div> <div>last person joined yesterday</div>

<div>Quality Control/Analytical</div> <div>Quality Control/Analytical CoP</div> <div>last person joined yesterday</div>
<div>Regulatory and Quality Networking</div> <div>Regulatory and Quality Networking</div> <div>last person joined yesterday</div>
<div>Sterile Products Processing</div> <div>Sterile Products Processing CoP</div> <div>last person joined yesterday</div>
<div>Supply Chain, Operations and Packaging (SCOPE)</div> <div>Supply Chain, Operations and Packaging (SCOPE) CoP</div> <div>last person joined yesterday</div>
<div>Sustainability</div> <div>Sustainability CoP</div> <div>last person joined yesterday</div>
<div>Sustainable Facilities, HVAC and Controlled Environments</div> <div>Sustainable Facilities, HVAC and Controlled Environments (SFHCE) CoP</div> <div>last person joined yesterday</div>
<div>Women in Pharma</div> <div>Women in Pharma</div> <div>last person joined yesterday</div> <div><div><div></div></div><div><div>WIP</div></div></div>





The Critical Utilities COP is by far the most active COP with over 4,500 Discussions

Proposed China Water standards are available for public comment

True Point Of Use (TPOU)

The use of "WFI Quality" water.

# What does this mean to me?

It's an opportunity to

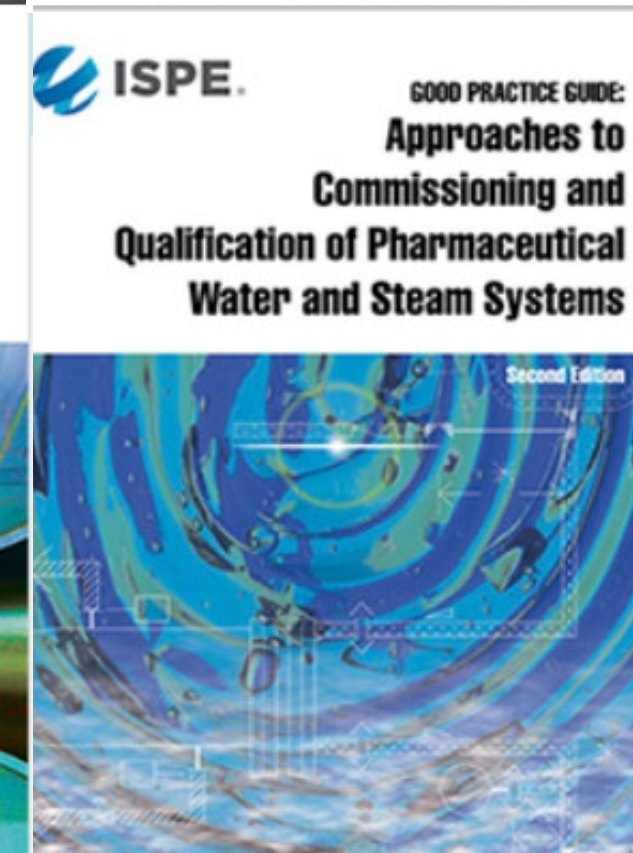
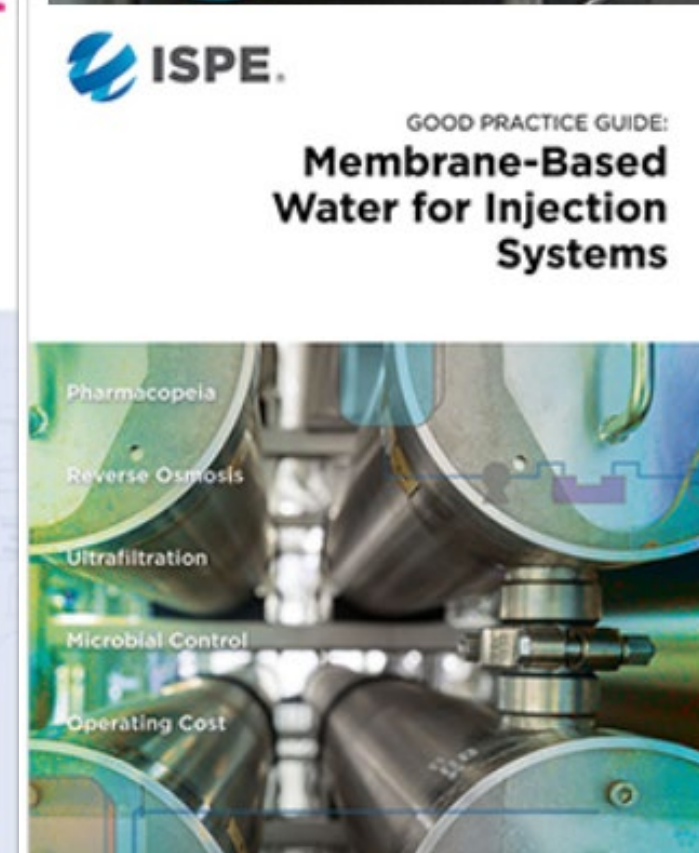
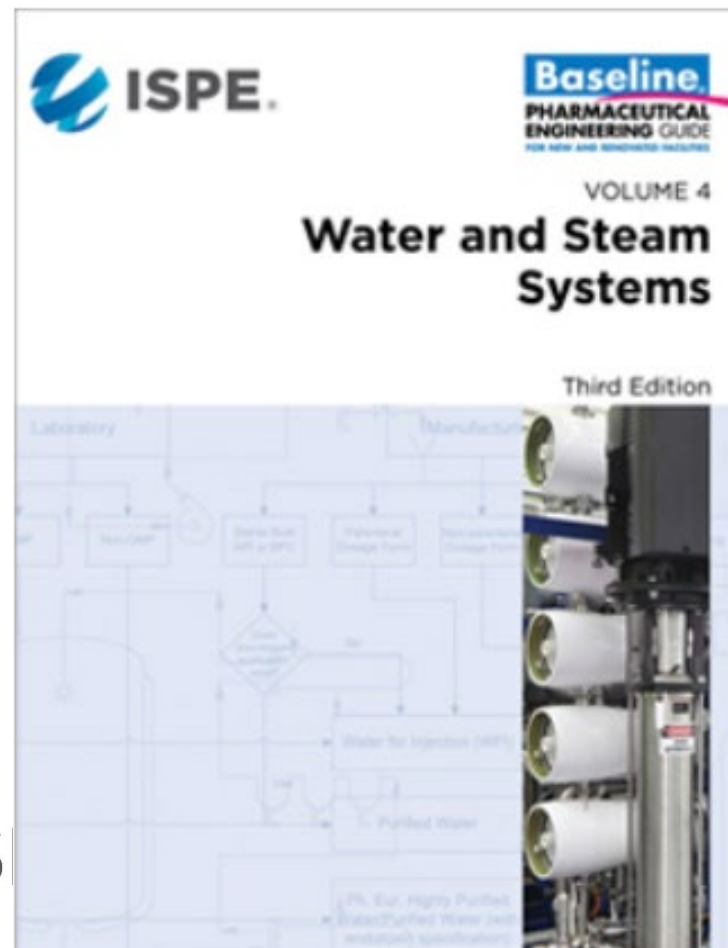
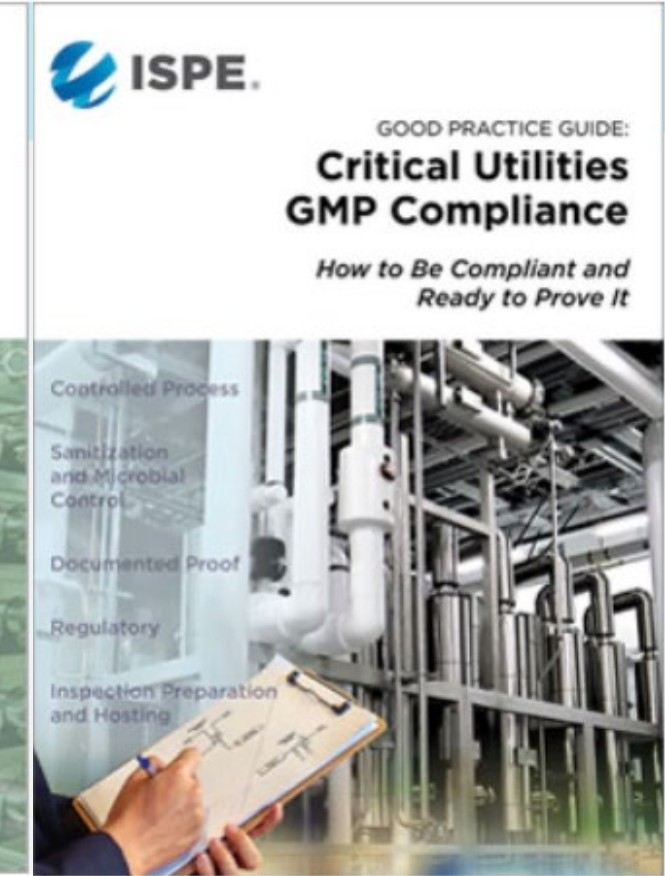
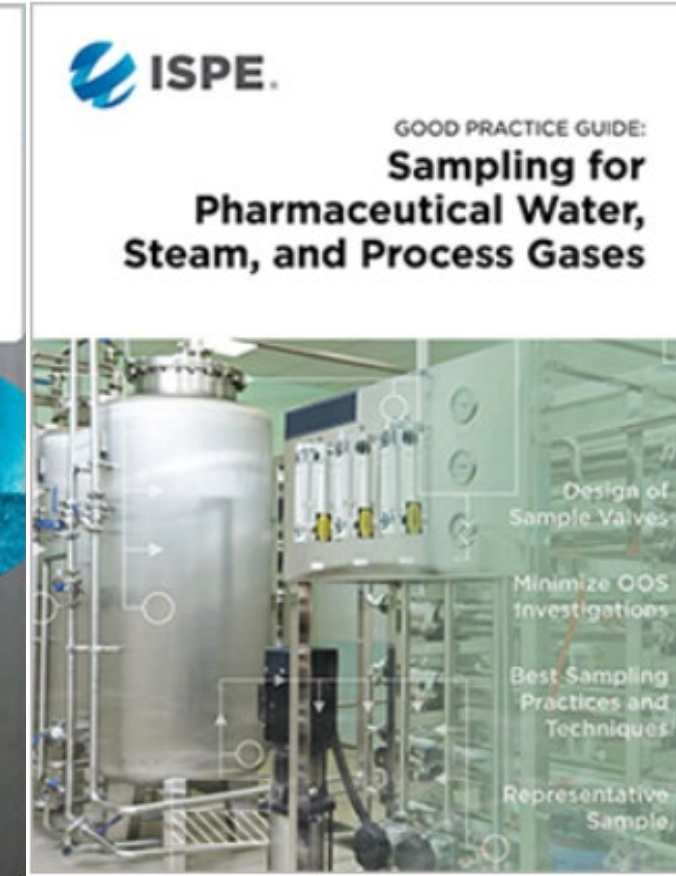
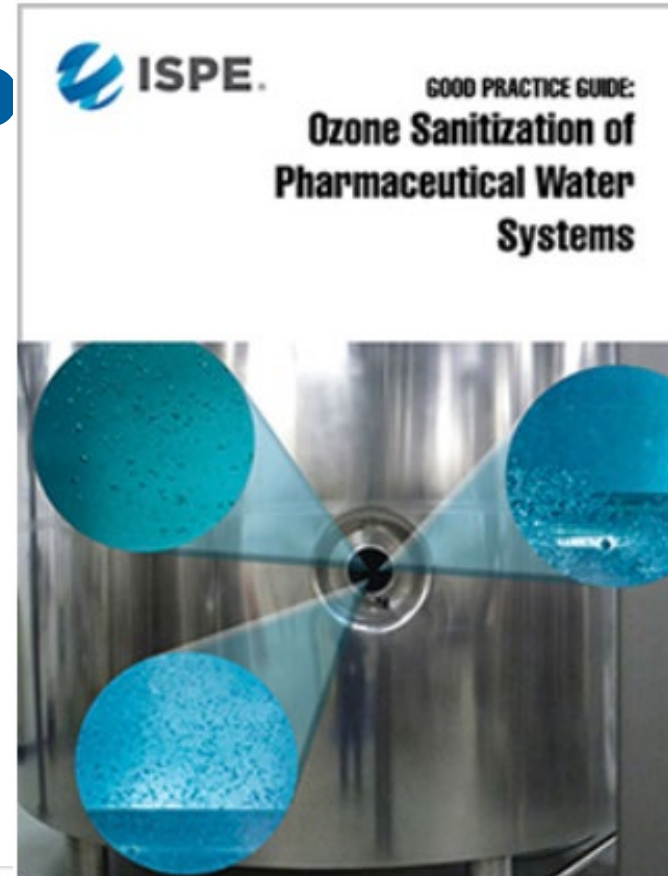
- Learn
- Build your network
- Ask a question
- Solve a technical problem
- Get advice
- Advance your career
- Follow discussions
- Stay up to date on trends, changes, and advancements in the industry



# The CUCOP P

Get involved on any level

- Stay up to date
- Become a peer reviewer
- Become a contributing author



# The CUCOP Steering Committee

Sets the direction of the CUCOP – A high powered, worldwide group of experts

- Anthony Bevilacqua, Mettler Toledo Thornton
- Nissan Cohen, Biopharmaceutical Water Doctor
- Andrew Collentro, IonClear
- Brian Cox, Eli Lilly
- Rod Freeman, Kite Pharma
- Brian Hagopian, Clear Water Consulting
- Ariel Kehati, Johnson and Johnson
- Nik Krpan, Cheme Engineering
- Christopher Kwan, Pfizer
- Joseph Manfredi, GMP Systems
- Stephan Neumann, Boehringer - Ingelheim
- Rinke Nijland, Bilthoven Biologics
- Chris Palte, Agilent Technologies
- Christian Peterson, AbbVie
- Roque Perez, Johnson and Johnson
- Brian Pochini, Sanofi
- Fritz Roeder, Merck Healthcare
- Jochen Schmidt-Nawrot, CRB
- TC Soli, Soli Pharma Solutions
- Phil Sumner, Pfizer (retired)
- Roland Thoendel, Takeda
- Anders Widov, BWT Pharma
- Gary Zoccolante, Plymouth Rock Water Consultants