

# PUBLISHED ARTICLES

AUTHORED BY

**PETER S. CARTWRIGHT, P.E.**

(In Reverse Chronological order)

## **2020**

“COVID-19 From a Water Guy’s Perspective” – Water Conditioning & Purification

[www.wcponline.com](http://www.wcponline.com)

June 2020

“Membrane Filtration Technology Development Trends Toward Water and Wastewater Recovery and Reuse” - International Filtration News

[www.filtnews.com](http://www.filtnews.com)

May/June 2020

## **2019**

“Reverse Osmosis Drinking Water: The Myths and the Facts” with Gary Battenberg – Water Conditioning & Purification

[www.wcponline.com](http://www.wcponline.com)

July 2019

“Crossflow Technologies for Wastewater Treatment” – International Filtration News

[www.filtnews.com](http://www.filtnews.com)

March/April 2019

“Water Treatment Media Review” – Water Conditioning & Purification

[www.wcponline.com](http://www.wcponline.com)

January 2019

## **2018**

“Particulate Pollution: What’s in Your Ocean?” – Water Conditioning & Purification

[www.wcponline.com](http://www.wcponline.com)

October 2018

“Plastic Particles and Their Impact on Water” – Water & Wastewater International

[www.wwinternational.com](http://www.wwinternational.com)

April/May 2018

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## **2017**

“The Next Drinking Water Contamination Issue? Part 2” – Water Conditioning & Purification  
[www.wcponline.com](http://www.wcponline.com)  
November 2017

“The Next Drinking Water Contamination Issue? Part 1” – Water Conditioning & Purification  
[www.wcponline.com](http://www.wcponline.com)  
October 2017

“Wastewater Treatment with Membrane Technologies” – H2O Quality Magazine  
[www.twqa.org](http://www.twqa.org)  
May 2017

“Membrane Treatment Technologies for Wastewater Treatment” – Filtration News  
[www.filtnews.com](http://www.filtnews.com)  
April 2017

## **2016**

“Brine Recovery from Water Softening Process” – Filtration News [www.filtnews.com](http://www.filtnews.com)  
January/February 2016 Volume 35 No. 1

## **2015**

“New Water Treatment Technologies Under Development” – Filtration News  
[www.filtnews.com](http://www.filtnews.com)  
November/December 2015 Volume 34 No. 6

“Zero Liquid Discharge of Bakery Wastewater” – EA Water Magazine [www.eawater.com](http://www.eawater.com)  
September 2015

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“A Look at the Present and Into the Future of Potable Water Treatment” – Water Conditioning & Purification [www.wcponline.com](http://www.wcponline.com)  
June 2015

“Mitigating Membrane Fouling” – Filtration News [www.filtnews.com](http://www.filtnews.com)  
May/June 2015 Volume 34 No.3

“Fluid Treatment: Skids and Packages” – Water Conditioning & Purification  
[www.wcponline.com](http://www.wcponline.com) and [www.agualatinoamerica.com](http://www.agualatinoamerica.com)  
January 2015

## **2014**

“Cooling Tower Blowdown Reuse” – Water and Wastewater International  
[www.wwinternational.com](http://www.wwinternational.com)  
October-November 2014

## **2013**

“Cooling Tower Blowdown Treatment and Reuse – A ZLD Case History”, Water Conditioning & Purification [www.wcponline.com](http://www.wcponline.com)  
November 2013

“The Role of Membrane Technologies in Water Reuse Applications”, Desalination and Water Treatment [www.deswater.com](http://www.deswater.com)  
February 2013

## **2012**

“Power Plant Wastewater Reuse – A Case History”, Filtration News Magazine  
November/December 2012

“Examining Scaling Indices – What are They?”, Industrial WaterWorld Magazine  
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“Pretreatment Technologies for Reverse Osmosis and Nanofiltration”, The Analyst Published by AWT  
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“Pretreatment Technologies for Reverse Osmosis and Nanofiltration”, EverythingAboutWater Magazine, Indepth – Filtration & Separation Section  
February 2012

“Reverse Osmosis Technology – Not Just for Water Purification”, Water Conditioning & Purification Magazine  
January 2012

“Reverse Osmosis Membrane Processing – Applications Insights”, Pollution Engineering Magazine  
January 2012

“An Introduction to Membrane Bioreactor (MBR) Technology” – Minnesota Onsite Wastewater Association – The Little Digger a bi-monthly publication  
December 2011/January 2012

## 2011

“Water Reuse – The Challenges and Options”, Water Conditioning & Purification Magazine  
November 2011

“Membrane Treatment Technologies for Water Reuse” – The Analyst Technology Supplement  
Fall 2012

“Rainwater Harvesting – An Untapped Resource”, Water Conditioning & Purification Magazine  
July 2011

“Membrane Treatment Technologies for Water Reuse”, Filtration News Magazine  
April 2011

“Graywater Reuse”, Clean India Journal  
March 2011

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## 2010

“Arsenic in Well Water”, H<sub>2</sub>O Quality Magazine – Texas Water Quality Association  
Fall 2010

“Cartridge Filtration”, Everything About Water Magazine  
July 2010

“Rainwater Harvesting. Part 2: Treating Harvested Rainwater and System Design”, Plumbing Systems & Designs  
July/August 2010

“Rainwater Harvesting. Part 1: Why and How to Use Harvested Rainwater”, Plumbing Systems & Designs  
June 2010

“Pretreatment Technologies for Reverse Osmosis and Nanofiltration”, Water Conditioning & Purification Magazine  
April 2010

“Problem: Well Water”, Water Conditioning & Purification Magazine  
April 2010

“Membrane Maintenance, The Key to Enhance Filtration”, Chemical World Magazine  
January 2010

“New Developments in Membrane - Based Processes for Industrial Applications”, “The Science and Technology of Industrial Water Treatment”  
Book Chapter – Edited by Zahid Amjad, IWA Publishing and CRC Press, Taylor and Francis Group, 2010

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## 2009

“Removal of Toxic Arsenic and Antimony from Groundwater Spiro Tunnel Bulkhead in Park City Utah Using Colloidal Iron Hydroxide: Comparison with Reverse Osmosis”, Advanced Materials Research Vols. 83-86 (2010) pp 553-562 © (2010) Trans Tech Publications, Switzerland doi: 10.4028/www.scientific.net/AMR.83-86.553

December 2009

*Co-Authors: Z. Pawlak, A. Oloyede and E. Bayraktar*

“Acids and Bases”, Water Conditioning & Purification

November 2009

“Chemical Bonds in Water”, Water Conditioning & Purification

October 2009

“Molecules and Compounds”, Water Conditioning & Purification

September 2009

“Elements, Atoms and Molecules”, Water Conditioning & Purification

August 2009

“Membrane Technologies”, Cooler Water Purification

August 2009

“The Periodic Table”, Water Conditioning & Purification

July 2009

“Corrosion Issues”, Communiqué – Canadian Water Quality Association

May 2009

“Iron and Manganese in Well Water”, National Ground Water Association,

May 2009

“Graywater”, Water Conditioning & Purification,

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“Water Treatment & Wastewater Reuse” Case Study, Everything About Water,

April 2009

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April 2009

“Spiral-Wound RO Membrane3 Element Pretreatment”, Communiqué – Canadian Water  
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March 2009

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March 2009

“Strontium in Well Water”, National Ground Water Association,  
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March 2009

## **2008**

“Industrial Water Reuse – A looming Necessity”, Pennwell Water Group  
December 2008

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October 2008

“Microorganisms in Well Water”, National Ground Water Association,  
October 2008

“Toilet to Tap”: Is it Feasible?, Canadian Water Treatment Magazine  
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“Membranes” “Water reuse / Recycle in an Electroplating Facility – A Case History”, Ultrapure  
Water, September 2008

“Nitrates in Well Water”, National Ground Water Association,  
September 2008

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“Radon in Well Water”, National Ground Water Association,  
September 2008

“MBR Technology”, Filtration News Magazine,  
July/August 2008

“Arsenic in Well Water”, National Ground Water Association,  
July 2008

“Water Treatment and Reuse in Commercial / Industrial Applications”, Water Conditioning  
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“Plating Wastewater Reuse – An Innovative System Design” – Membranes, March 2008

## **2007**

“CSA B483 – The Ultimate Canadian POU/POE Standard?”, Water Conditioning & Purification,  
December 2007

“Residential Drinking Water Treatment”, Cooler Innovation, April/May 2007 - part 1, June/July  
2007 - part 2, August/September - part 3

“Water Reuse with Membrane Technologies – An Update”, The Analyst, Fall 2007

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“Water Reuse Technologies: The Wave of the Future” Water Conditioning & Purification –  
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“Pumping Requirements for Membrane Technologies” Pumps and Systems Magazine, April  
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“MBR Technology – The advantages of membrane bioreactor systems”, Process Engineer Magazine, June 2006

“Construction Guidelines For Water Treatment Systems”, Industrial Water World, May/June 2006

“Water Reuse”, Processing Magazine, April 2006

“Everything you wanted to know about water reuse but were afraid to ask”, Processing Magazine, April 2006

“Membrane Technologies For Wastewater Reuse – The Challenges”, Filtration News, March/April, 2006

“Process Water Treatment – Challenges and Solutions”, Chemical Engineering Magazine, March 2006

## **2005**

“A Review of Membrane Technologies for Water Reuse Applications”, Ultrapure Water, October, 2005.

“Process Water Supply – The Big Picture” (Part 1), Chemical Engineering, May, 2005.

“Water Purification versus Waste Water Reuse- The Common Denominator”, Water Conditioning & Purification, May, 2005.

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## 2004

“AquaTech 2004 – A View From The Trenches”, Water Conditioning & Purification, November, 2004

“The Overlooked Oasis,” Water & Wastewater Products, October 2004, with George Alter.

“Membranes for Process Water Reuse,” Chemical Engineering, June 2004.

“The Encyclopedia of Water”, The Encyclopedia of Water, June 2004

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“Membrane Fouling – A Primer,” Filtration News, March/April 2004.

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(w/ Z.Pawlak, G. Rabiega, L. Scanlon), ARS SEPARATORIA ACTA, No. 2, 2003.

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“Nanofiltration – When It Works For The Whole House,” Water Conditioning & Purification, November 2003.

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“Wastewater Meets Membranes,” Chemical Processing, March 2003.

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“A Strategic Vision for the WQA,” Water Conditioning & Purification, February 2003.

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## 2001

“From Toilet to Tap– The Ultimate in Water Reuse,” Water Conditioning & Purification, November 2001.

“RO Water from POU Units – The Real Story,” Water Conditioning & Purification, September 2001.

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“AquaTech 2000 – A Review of the World’s Largest Water Conference,” Water Conditioning & Purification, March 2000.

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“The Challenge of Membrane Maintenance,” Water Quality Products, February 2000.

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“System Maintenance-An Overview of Sanitization Concerns in the Semiconductor Industry,” Ultrapure Water, December 1999.

“Aquatech ’98 – A View from Amsterdam,” Water Conditioning & Purification, December 1998.

“Membrane Technologies in Precision Cleaning Applications,” Ultrapure Water, October 1998.

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“Norway – White Nights & Pure Water,” Water Conditioning & Purification, September 1998.

“Reverse Osmosis Technology – Where Does It Fit?,” Water Conditioning & Purification, April 1998.

"The Ultimate in Recycling - Membrane Technology for Municipal Water Reuse Gains Ground," Water Conditioning & Purification, November 1997.

“Crossflow Filtration for Environmental Compliance,” Filtration & Separation, October 1997.

“Bed Filtration Ways & Means,” Precision Cleaning, September 1997 (with Philip Olsen).

"The Role of Membrane Technology in Water Purification Applications," Filtration & Separation, July/August 1997.

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"The Dental Dilemma: Microorganism Contamination of Water Lines," Water Conditioning & Purification, May 1997 (with Philip Olsen).

“Magic Bullets Miss the Mark in Water Purity,” Water Conditioning & Purification, February 1997.

“The Comfort of Confidence,” Water Conditioning & Purification, December 1996.

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(In Reverse Chronological order)

- “Membrane Fouling Causes and Cures,” Water Conditioning & Purification, July 1995.
- “The ABC’s of Filtration,” Water Conditioning & Purification, February 1995 (with Philip Olsen).
- “Pollution Prevention Drives Membrane Technologies,” Chemical Engineering, September 1994.
- “Commercial/Industrial System Design,” Water Conditioning & Purification, September 1994.
- “Education: Your Key to Success,” Water Conditioning & Purification, August 1994.
- “Reverse Osmosis and Nanofiltration Membrane System Design,” Plumbing Engineer, March 1994.
- “Who’ll Take Europe?,” Water Technology, April 1993.
- “Mixing Blood & Water,” Water Technology, March 1993.
- “Membrane Technologies In The Power Industry”, Ultrapure Water, February 1993.
- “Lead Controls Affect Reverse Osmosis”, Water Technology, January 1993.
- “Reading RO Spec’s,” Water Technology, December 1992.
- “Showing Europe,” Water Technology, November 1992.
- “One Person’s Waste Is Another Person’s Treasure,” Water Technology, October 1992.
- “A Membrane System Design Primer,” Water Conditioning & Purification, July 1992.
- “Whole-House Reverse Osmosis Design,” Water Technology, March 1992.
- “Hemodialysis Water Treatment: A Consultant’s Perspective,” Dialysis & Transplant, March 1992.
- “Minerals and the Body,” Water Technology, November 1991.

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“Reducing the Industry’s Knowledge Deficit,” Water Technology, October 1990.

“Pollution Control Membranes: “Continuous, Competitive, Clean,” Chemical Processing, July 1990.

“Fine Tuning Reverse Osmosis,” Water Technology, August 1989.

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“Water Treatment Systems - The risk of bacterial contamination and its prevention,” Contemporary Dialysis and Nephrology, June 1987.

“How to Choose the Right Disinfectant For Your Reverse Osmosis System,” Water Technology, August 1986.

“Monitored Performance - The Available Alternatives,” Water Technology, March 1986.

“Identifying Drinking Water Contaminants,” Water Technology, February 1986.

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“Keeping Sterile Water Sterile,” Pharmaceutical & Cosmetic Technology, July 1985.

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“Today’s Reverse Osmosis,” Products Finishing, May 1984.

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Contemporary Dialysis, October 1983.

“Water Purification Application for RO/UF Technology,” Water Technology, August 1982.

“Demystifying RO Water Treatment,” Water Technology, August 1982.

“Ultrafiltration,” Meat Processing, May 1982.

“Reverse Osmosis and Ultrafiltration in the Plating Shop,” Plating and Surface Refinishing,  
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