



Air Quality

NORTHERN NEVADA PUBLIC HEALTH  
AIR QUALITY MANAGEMENT DIVISION  
1001 East 9th Street, Building B171 • Reno, NV 89512  
Telephone (775) 784-7200 • Fax (775) 784-7225

[OurCleanAir.com](http://OurCleanAir.com)  
[health-airqualitycontactus@nnph.org](mailto:health-airqualitycontactus@nnph.org)

### Air Pollution Control Hearing Board Member Application

I am interested in joining the Air Pollution Control Hearing Board in the following role:

Please Check the Box    NV Reg. P.E.     NV Lic. Attorney     Contractor     At-large

Name: Stephen Birdsall

Address: [Redacted]

City, ST ZIP: [Redacted]

Contact #1: [Redacted]

Contact #2:

Email: [Redacted]

Reason for Interest in joining the Air Pollution Control Hearing Board:

I relocated here 6 years ago after retiring from Imperial County, CA, where I held several department head positions including Air Pollution Control Officer of the Imperial County Air Pollution Control District. One of my responsibilities was to establish and support the Districts Air Pollution Hearing Board. I have a keen interest in air pollution issues and believe in the Hearing Board process to adjudicate Air pollution issues. I feel that my prior experience and knowledge could be of benefit your Board.  
Please feel free to contact me if you have any further question.

List your relevant qualifications below:

October 1987 - April 2008: Air Pollution Control Officer, Imperial County, CA,  
October 1987 - July 2010: Agricultural Commissioner, Imperial County, CA  
October 2004 - July 2010: Director of Airports, Imperial County, CA  
LCDR United States Coast Guard Reserve (ret)  
Miscellaneous boards and commissions.



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I am interested in joining the Air Pollution Control Hearing Board in the following role:

Please Check the Box  NV Reg. P.E.  NV Lic. Attorney  Contractor  At-large

Name: Chaitanya Korra \_\_\_\_\_

Address: \_\_\_\_\_ City, ST ZIP: \_\_\_\_\_

Contact #1: \_\_\_\_\_ Contact #2: \_\_\_\_\_

Email: \_\_\_\_\_

Reason for Interest in joining the Air Pollution Control Hearing Board:

I am deeply committed to promoting clean air solutions and ensuring equitable practices in air quality management for the Reno/Sparks/Washoe County community. With a strong background in sustainability and environmental design, I am eager to contribute to resolving air pollution matters through a fair and transparent appeals process. Joining the board aligns with my professional expertise and personal dedication to fostering healthier environments and advocating for sustainable urban development.

List your relevant qualifications below:

1. Master of Architecture with a focus on Sustainability, University of New Mexico.
2. Senior Design Manager at Redwood Materials, leading infrastructure engineering and sustainability strategies for lithium-ion battery recycling.
3. Extensive experience in environmental design, project management, and ESG frameworks for industrial facilities.
4. Published research on sustainable design, decarbonization strategies, and air quality monitoring in peer-reviewed journals.
5. LEED Green Associate and Fitwel Ambassador, committed to promoting healthy and sustainable built environments.
6. Active member of professional organizations, including American Institute of Architects, US Green Building Council, and Construction Specifications Institute, contributing to industry-wide sustainability initiatives.

**Air Pollution Control Hearing Board  
Member Application**

I am interested in joining the Air Pollution Control Hearing Board in the following role:

Please Check the Box    NV Reg. P.E.     NV Lic. Attorney     Contractor     At-large

Name: William Foster McCoy, PhD

Address: [REDACTED]    City, ST ZIP: 89511

Contact #1: [REDACTED]    Contact #2:

Email: [REDACTED]

Reason for Interest in joining the Air Pollution Control Hearing Board:

I can help assess unresolved claims. I am a scientist and business owner dealing with pollution control and risk management mostly in water-related issues. I have been associated with the IAQ and on the Environmental Health Committee of ASHRAE, the largest organization of scientists and engineers in the field of air and water management issues. I am an Adjunct Professor in the School of Medicine at UNR.

List your relevant qualifications below:

Please see my CV attached.

# William F. McCoy, PhD

**Position** Co-Founder and Chief Technology Officer, Phigenics, LLC.  
[REDACTED]

## Chronology of Professional Experience:

2004 - Present Co-Founder, Chief Technology Officer, Phigenics, LLC  
2019 - Present Adjunct Professor, University of Nevada, Reno. School of Medicine (concurrent)  
2002-2004 Research Director, Nalco  
2000-2002 Managing Technical Director, Global Research, Ondo Nalco, A Division of Suez  
1994-2000 Technical Director, Global Microbiology and Food Process, Nalco Chemical Corp.  
1992-1994 Group Leader, Microbiology, Nalco Chemical Corporation  
1990-1992 Group Leader, Great Lakes Chemical Corporation, West Lafayette, Indiana  
1988-1991 Visiting Professor, Dept of Environmental Engineering, Purdue University (concurrent)  
1987-1990 Research Associate, Great Lakes Chemical Corporation, West Lafayette, Indiana  
1984-1987 Senior Research Scientist, Rohm and Haas Company, Research Laboratories, PA  
1982-1984 Post-Doctoral Research Fellow, University of California, Irvine, California

## Awards

- Suez Trophy of Merit (the highest innovation award given by the group), Brussels, Dec. 2002
- 2002 Grand Prize Management Innovation Trophy, Suez Group. Brussels, December 2002
- Medal for Outstanding Contribution to Management and Science. Intl. Water Assoc., Berlin, 2001
- Inventor of the Year Award. The Intellectual Property Law Association. Chicago, May 2001
- 2000 Grand Prize Technical Innovation Trophy, Suez Group. Paris, December 2000.
- Governor's Pollution Prevention Award. The State of Illinois. 1999.
- R&D 100 Award. Research and Development Magazine. 1998. 40(10):140
- Rohm and Haas Computer Applications Research Award. November, 1986.
- Rohm and Haas Performance Merit Award. January, 1986.
- Environmental Protection Agency (EPA) Post-Doctoral Fellowship. 1982-1984.
- NOVA Foundation Scholar, Full Graduate Stipend, University of Calgary, 1981.
- Graduate Research Assistant, University of Calgary, Calgary, Alberta, Canada 1980.
- Graduate Research and Teaching Assistantships, University of Hawaii, 1977-1979.

## Professional Elections and Appointments

Adjunct Professor (Appointed 2019). University of Nevada, Reno. School of Medicine. Department of Molecular Microbiology and Immunology. <https://med.unr.edu/directory/william-mccoy>

Member, *Legionella* Task Group (appointed 2019), International Association of Plumbing and Mechanical Officials (IAPMO).

Subject Matter Expert (SME) for CDC (appointed 2016), Nation-wide educational program for the development and implementation of water management programs to prevent legionellosis associated with the built environment.

Advisor (Appointed 2013), NSF International, to develop national education, training and certification program for HACCP-based Building Water System Management course and standard practice.

Voting Member (appointed 2015), American Society of Heating, Refrigerating and Air-conditioning Engineers (ASHRAE), Environmental Health Committee, standing committee responsible for policy.

Voting Member (2005-present), American Society of Heating, Refrigerating and Air-conditioning Engineers (ASHRAE), Committee SPC188, with members from CDC and many other industry experts. The committee has been convened to produce an ASHRAE Standard for preventing legionellosis associated with building water systems.

Chair (Appointed 2008-2009), Environmental Health Committee, American Society of Heating, Refrigerating and Air-conditioning Engineers (ASHRAE); oversight responsibility for all health-related issues for the 52,000 member society.

Member (Appointed), World Health Organization, committee to write a global guideline entitled *Legionella* and the Prevention of Legionellosis, Published 2007.

Vice-Chair (Appointed 2005), American Society of Heating, Refrigerating and Air-conditioning Engineers (ASHRAE), Committee SPC188, with members from CDC and many other industry experts. The

committee has been convened to produce an ASHRAE Standard for preventing legionellosis.

Board of Directors (2007-2013), ALDA Pharmaceuticals Corp. Vancouver, British Columbia, Canada

Voting Member (appointed), American Society of Heating, Refrigerating and Air-conditioning Engineers (ASHRAE), Committee GPC-12, with EPA, CDC, and industry experts. Produced *Guideline 12-2000: Minimizing the Risk of Legionellosis Associated with Building Water Systems*. The committee has been reconvened to upgrade the guideline to an ASHRAE Standard.

Symposium Chairman (appointed), National Association of Corrosion Engineers (National Association of Corrosion Engineers). For the 1997 meeting of T-7A-16 (Application/Misapplication of Biocides).

Chairman (elected), Technical Advisory Committee, Engineering Research Center, National Science Foundation, Center for Biofilm Engineering, Montana State University, 1992-1994. Directed activities of the Advisory Board, especially in strategic planning.

Chairman (appointed), Joint Task Group, *Standard Methods for the Examination of Water and Wastewater*, 17<sup>th</sup> ed., Section 9216, Direct Total Count by Epifluorescence Microscopy. 1990. Led the group that wrote a method that has now been adopted as a standard.

Vice-Chairman (elected), National Association of Corrosion Engineers (National Association of Corrosion Engineers). Work Group T-7A-16c: Biocide Effectiveness Monitoring in Cooling Water Systems.

Editor (invited). Member of the Board of Editors for the research and review journal *International Biodeterioration*, 1989-1991.

## Patents and Commercial Development

This portfolio of 29 patents, all with international equivalents, disclose innovations in water treatment methods, diagnostics, antimicrobials and monitoring devices that have produced revenue over \$US 2 billion.

### U.S. Patents

7,939,314	6,287,473	6,017,459	5,702,684	5,246,963
7,935,521	6,270,722	6,007,726	5,683,654	5,122,301
7,901,932	6,156,229	5,948,315	5,670,055	5,090,990
6,423,267	6,136,205	5,942,126	5,416,198	5,045,104
6,419,879	6,123,870	5,922,745	5,416,107	4,965,377
6,322,749	6,096,225	5,795,487	5,358,963	

## Selected Titles From Over 100 Publications: Book Chapters, Patents, Peer-Reviewed Scientific Publications, Business Briefings, Magazine Articles and Presentations:

Fisher, K.E., L.P. Wickenberg, L.F. Leonidas, A.A. Ranz, M.A. Habib, R.M. Buford, W.F. McCoy. 2020. Next Day *Legionella* PCR: a highly reliable negative screen for *Legionella* in the built environment. *J. Water & Health* (2020) 18 (3): 345–357.

Jinadatha, C, Stock, E.M., Miller, S.E. and W. F. McCoy. 2018. Environmental validation of *Legionella* control in a VHA facility water system. *Inf. Cont. Hosp. Epidemiol.* 39(3):1–8

McCoy, W.F. and A.A. Rosenblatt. 2015. HACCP-Based Programs for Preventing Disease and Injury from Premise Plumbing: A Building Consensus. *Pathogens* 2015; 4: 513–528.

Krageschmidt, D.A., A.F. Kubly, M.S. Browning, A.J. Wright, J.D. Lonneman, M.J. Detmer and W.F. McCoy. 2014. A Comprehensive Water Management Program For Multi-campus Healthcare Facilities. *Inf. Control and Hosp. Epidemiology.* 35(5):556-63

McCoy, W.F., Downes, E.L., Leonidas, L.F., Cain, M.F., Sherman, D.L., Chen, K., Devender, S. and M.J. Neville. 2012. Inaccuracy in *Legionella* Tests of Building Water Systems Due to Sample Holding Time. *Water Research*, 46(2012): 3497-3506

McCoy, W.F. and W.E Pearson. 2011. ASHRAE Standard 188P: Prevention of Legionellosis Associated with Building Water Systems. *The Analyst.* 19(2): 10-21.

McCoy, W.F., Downes, E.L., Lasko, T.M, Neville, M.J. and M.F. Cain. 2009. A new method to measure viable *Legionella* and total heterotrophic aerobic bacteria. *The CTI Journal*. 30(1): 14-32. ISSN: 0273-3250

McCoy, W.F. 2006. Preventing legionellosis with hazard analysis and control systems. In: *Legionella: State of the art 30 years after its recognition*, Eds: Cianciotto, N. P., et al.; Chapter 130, pp. 538-542. ISBN: 978-1-55581-390-1; ASM Press, Washington, DC

McCoy, W.F. 2005 (2005). *Preventing Legionellosis*. Commissioned full-length book published by the International Water Association, London, UK ISBN: 1843390949

McCoy, W.F. 2004. *Legionella*. Chapter 5, In: *Microbial Waterborne Pathogens*, E Cloete, et al. (eds); IWA Publishing and The World Health Organization. ISBN: 1843390558

McCoy, W.F. 2003. Microbial fouling control for cooling water. In: *Business Briefing: CPI Technology*, pg. 65-67. World Markets Research Centre, Ltd, WMRC plc, London, UK [www.wmrc.com](http://www.wmrc.com)

McCoy, W.F. 2003. Microbial-fouling control for industrial systems. In: *Biofilms in Medicine, Industry and Environ. Biotechnology: Characteristics, Analysis and Control*. P. Lens et al. (eds), IWA Publishing, London.

McCoy, W.F. 2003. Why you should care about microbial control. *Process Cooling & Equip.* January 2003: 19-21.

McCoy, W.F. 2002. A New Environmentally Sensible Chlorine Alternative, pg. 52-62. In: *Industrial Biocides: Selection and Application* (eds. Karsa, DR. and D. Ashworth). The Royal Society of Chemistry, Cambridge, UK

Borchardt, S.A., E.J. Allain, J. J. Michels, G.W. Stearns, R.F. Kelly, and W.F. McCoy. 2001. Reaction of acylated homoserine lactone signal molecules with oxidized halogen antimicrobials. *Appl. Environ. Microbiol.* 67(7):3174-3179.

Michels, J.J, E. J. Allain , S. A. Borchardt , P. Hu , W. F. McCoy . 2000. Degradation pathway of homoserine lactone bacterial signal molecules by halogen antimicrobials identified by liquid chromatography with photodiode array and mass spectrometric detection. *J. Chromatography A*. 898(2000): 153-165.

McCoy, W.F. 1999. A New Environmentally Sensible Chlorine Alternative. 3<sup>rd</sup> Annual Green Chemistry and Engineering Conference Proceedings, June29-July 1, 1999. American Chemical Society Publication.

Yu, F.P., D. Ginn, and W.F. McCoy. 1999. Cooling tower fill fouling control in a geothermal power plant. *Corrosion Reviews*. 17(3-4):205-217.

McCoy, W.F. 1998. Imitating natural microbial fouling control. *Materials Performance*. 37(4): 45-48.

## Certifications

Non-transient, Non-Community Public Water Supply Operator, USEPA, PWS I.D. #11890

Analytical Laboratory Certifications:

USEPA: National Environmental Laboratory Accreditation Program, Registry No. 17595

CDC: Environmental *Legionella* Isolation Technique Evaluation (ELITE) program. Certified 1/16/09

Certified Indoor Environmentalist (CIE), Indoor Air Quality Association, 2004

Certified HACCP Manager, NSF International and Experior, 2005

**Education:** Ph.D. Microbiology, 1982, University of Calgary (Professor: J.W. Costerton)  
M.Sc. Microbiology, 1979, University of Hawaii (Professor: L.R. Berger)  
B.Sc. Microbiology 1977 with Distinction, Calif. State University, Long Beach  
B.A. Chemistry 1976 with Honors, Calif. State University, Long Beach