



2011 - BIO

Beth Hamil
Vice President
Corporate Compliance
DEL Ozone
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Active in the swimming pool and spa industries since 1978; active in the ozone industry since 1982; employed by DEL Industries, Inc. DBA DEL Ozone since 1985

- Named in multiple ozone patents
- Developed the first UL listed ozone systems for pools and spas (1985)
- Developed the first NSF listed ozone system for commercial pools and spas under Standard 50 (1985)
- Co-wrote and published "Application Guidelines for the use of Ozone for Commercial Pools and Spas" (1994)
- Collaborated on several University studies regarding the efficacy of ozone for food applications (1997 to present)
- Collaborated with NSF Toxicology Group to test the efficacy of aqueous ozone against EPA sanctioned AOAC methodologies in conjunction with NIOSH standards (2000)
- Co-Developed NSF P308 Protocol to determine ozone's efficacy in commercial jetted bath tubs and foot baths (2004)
- Collaborated with NSF International to develop J-00047649; testing and validating the efficacy of low-dose ozone for a 3 log (99.9%) reduction of *Cryptosporidium parvum* in commercial swimming pools and spas (2007)
- Ozone consultant to the Spa and Swimming Pool industries since 1985
- Ozone consultant to State Environmental Health Department Agencies (recreational water) since 1986
- Wrote the State Guidelines for the use of ozone in commercial swimming pools and spas for NY, CA, WA (1996 to present)
- Ozone consultant for Aquatic Life Support Systems (aquatic mammals and fish in captivity) since 1991
- Ozone consultant to the Food and Beverage industry for Food Safety under HACCP since 1997
- Close working relationship with: USEPA, CDC, FDA, USDA, NSF, UL, ETL, PMRA and CFIA (Canada)
- Working member of Water Quality and Disinfection Technical Committee of the Model Aquatic Health Code (MAHC), Centers for Disease Control (CDC) (2008 to present)
- Recent recipient of a MAFMA (USDA) grant as an industry collaborator for the use of ozone in Clean-In-Place technology for Food Safety

Memberships

International Ozone Association (IOA)
International UV Association (IUVA)
Institute of Food Technologists (IFT)
International Society of Beverage Technologists (ISBT)
Water Quality Association (WQA)
NSF Joint Committee Standard 50 (Pools and Spas) (NSF-JC)
NSF UV Task Group and NSF Chloramine Task Group
Association Aquatic Life Support Operators (AALSO)
Association of Pool and Spa Professionals (APSP)
California Environmental Health Association (CEHA)
National Environmental Health Association (NEHA)
American Water Works Association (AWWA)

Featured Speaker at all of the above listed venues since 1990; including the World Aquatic Health Conference (National Swimming Pool Foundation)

Continuing Education Thirty-three years of continued education with coursework in engineering, chemistry and microbiology; continued research in federal and state regulations

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