

St. Croix Sensory, Inc.



8 January 2010

Jose Cid
Socioenginyeria, S.L.
C/ Alexander Bell, 79 2n
08224 Terrassa, SPAIN

Dear Dr. Cid,

I wanted to send you a letter highlighting the history and experience of St. Croix Sensory, Inc.

St. Croix Sensory, Inc. is an industry leading sensory evaluation laboratory located in the beautiful St. Croix River Valley of Minnesota. In 1980, Charles McGinley founded McGinley Associates, P.A., a environmental consulting firm providing engineering and testing services to a broad range of municipal, governmental, engineering and industrial concerns worldwide with specialization in odor measurement, monitoring, and control.

Charles McGinley has a solid engineering and business background founded in practical experience at 3M Company's Central Research/New Business Ventures Division, at the Minnesota Pollution Control Agency's Division of Air Quality, and at Geo. A. Hormel & Company's Environmental Systems Division.

In 1993, St. Croix Sensory was spun off of McGinley Associates specifically as a sensory testing laboratory specializing in odor testing of environmental odor samples as well as testing of products and materials. Our engineers have over 45 years of practical experience related to indoor and outdoor air quality issues, including an experience base at 100's of wastewater treatment plants, industrial facilities, landfills and compost facilities. Working with international product companies, both large and small, in such industries as coatings, fine chemicals, medical, home care, and personal care products, St. Croix Sensory's odor testing assists its customers in product development, performance testing, and consumer market research. As President, I have run the day to day business operations of the odor laboratory since its inception in 1980.

St. Croix Sensory utilizes the most current U.S. and international testing standards from ASTM International, CEN, and ISO. For example, odor threshold testing is conducted following the stringent requirements of both EN13725:2003 and ASTM E679-04.

Consistent with our leadership in the odor testing industry, our state of the art products set the standard in odor sampling, testing, and measurement with innovative and easy to use designs. These products include vacuum chambers and emission isolation flux chambers for odor sample collection and the Nasal Ranger® Field Olfactometer and AC'SCENT® Laboratory Olfactometer for odor measurement.

The Nasal Ranger Field Olfactometer is the first calibrated portable olfactometer. This portable olfactometer allows users to accurately measure odors in ambient air, something that is not possible with traditional laboratory odor testing. The Nasal Ranger can be used at the facility's fence-line and in the community to perform proactive monitoring of facility odors, to respond to community complaints, to verify odor emission modeling and to confirm facility performance. Virtually limitless applications include agriculture, wastewater treatment, biosolids processing and land application, pulp & paper mills, landfills and composting facilities. Nasal Rangers are currently in use in 42 U.S. states and 35 other countries:

- Australia
- Belgium
- Brazil
- Canada
- Chile
- China
- Columbia
- Croatia
- Denmark
- France
- Germany
- Greece
- Hong Kong
- Indonesia
- Israel
- Italy
- Japan
- Malaysia
- Mexico
- The Netherlands
- New Zealand
- Norway
- Panama
- Philippines
- Poland
- Puerto Rico
- Russia
- Singapore
- Slovenia
- South Korea
- Spain
- Thailand
- Turkey
- United Kingdom
- Uruguay

The AC'SCENT Laboratory Olfactometer is used to measure odor detection and recognition thresholds of odorous air samples collected at facility sources such as exhaust stacks, vents, surfaces, etc. St. Croix Sensory maintains five AC'SCENT olfactometers at its laboratory in Lake Elmo, Minnesota and has commissioned over 25 laboratories at universities, research institutions, municipalities and private corporations in North America, Europe, Australia and Asia.

St. Croix Sensory has also been providing "Odor School"® training services for over 20 years. This program prepares inspectors to conduct field evaluation of ambient odors. Qualified odor inspectors are trained in the basic principles and procedures of odor investigation and attain a practical knowledge to assist in understanding community air quality. Over 2,000 inspectors have been trained worldwide.

We have provided training and technical assistance directly to several U.S. state agencies including the Minnesota Pollution Control Agency, the Iowa Department of Natural Resources and the Missouri Department of Natural Resources as well as to several interstate agencies including:

- Central States Air Resource Agency (CenSARA): Minnesota, Iowa, Missouri, Arkansas, Louisiana, Nebraska, Oklahoma, and Texas
- Northeast States for Coordinated Air Use Management (NESCAUM): Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont, New Jersey, and New York
- Mid-Atlantic Regional Air Management Association (MARAMA): Delaware, District of Columbia, Maryland, New Jersey, North Carolina, Pennsylvania, Virginia, and West Virginia.

Internationally, we have provided training and technical assistance to government entities in Australia, Canada, Chile, China, Hong Kong, Panama.

St. Croix Sensory continues to provide strong industry leadership. Charles McGinley has been involved in odor technical committees for both the Air & Waste Management Association (A&WM) and the Water Environment Federation (WEF) since the early 1980's. His involvement has included committee leadership and conference and workshop planning. In 1995, Charles served as the Technical Program Chair for the A&WMA Conference on "Odors: Indoor and Environmental Air". In 2000, he was the Program Co-Chair for the WEF Specialty Conference on "Odors and VOC Emissions". For the upcoming WEF/A&WMA Odors and Air Pollutants 2010 specialty conference, Charles is a Program Chair for an educational Workshop titled, "Sampling and Measurement of Odors and Odorants at Wastewater Treatment Plants."

Michael McGinley, St. Croix Sensory Laboratory Director, is the current Chair of the A&WMA EE-6 Technical Committee on Odors. He has been serving as an officer on this committee since 2001. Michael is also active in the ASTM E18 Sensory Evaluation Committee, which works continuously to develop sensory standard that are recognized internationally. Michael has served as a subcommittee chair for the review and revision of odor testing standards including ASTM E679, ASTM E544, and ASTM E1593 and he is currently the Chair of an ASTM Technical Committee discussing Malodor standardization. Additionally, Michael is serving as the Vice-Chair of the Deodorization Subcommittee of the Air Care Division of the Consumer Specialty Products Association (CSPA), where he is leading interlaboratory testing of air freshener efficacy testing methodologies.

Michael was the Technical Program Vice-Chair for the A&WMA Annual Conference and Exhibition in Minneapolis, MN in 2005. He has also served as a Technical Program and Program Committee member for several A&WMA Environmental Nuisance Conferences held between 2005 and 2009. In 2008, Michael served as a Technical Program Co-Chair for the WEF/A&WMA Specialty Conference on "Odors and Air Emissions" (Phoenix, AZ). Internationally, Michael recently participated on the Scientific Program Committees of the following conferences: The 3rd IWA International Conference on Odour and VOCs (Barcelona: Oct. 2008) and NOSE 2010 The Italian Association of Chemical Engineering International Conference on Environmental Odour Monitoring and Control (Florence: Sept. 2010).

Charles and Michael have authored many scientific publications and have presented at numerous environmental conferences and specialty conference about odors. Charles has been a contributing author to Chapter 8: "Emission Control Technology" in "Odor and VOC Control Handbook": McGraw Hill (1998), Section 7, "Odor Monitoring and Standard," for a US-EPA document on addressing odors from biosolids (1999), and Chapter 2: "Odor Sampling and Measurement" of the WEF Manual of Practice No. 25, "Control of Odors and Emissions from Wastewater Treatment Plants" (2004). Please see the respective C.V.'s for Charles and Michael for a sample listing of notable papers and presentations. The following are most recent papers and presentations:

McGinley, Michael A. and Charles M. McGinley, "Odor Assessor Performance to Reference and Non-Reference Odorants." Proceedings of the Water Environment Federation / Air & Waste Management Association Specialty Conference: *Odors and Air Pollutants 2010*: Charlotte, NC: 21-24 March 2010.

McGinley, Michael A. and Charles M. McGinley, "U.S. Municipalities Address Updating Nuisance Odour Ordinances." Presentation at Air & Waste Management Workshop: *Environmental Nuisances*: Calgary, AB: 30 November – 1 December 2009.

McGinley, Michael A., Charles M. McGinley, and Jake Smith, "Proactive Odour Monitoring of Waste to Energy Facility." Presentation at Air & Waste Management Workshop: *Environmental Nuisances*: Calgary, AB: 30 November – 1 December 2009.

McGinley, Michael A. and Charles M. McGinley, "Odor Threshold Emission Factors for Common WWTP Processes." Proceedings of the Water Environment Federation / Air & Waste Management Association Specialty Conference: *Odors and Air Emissions 2008*: Phoenix, AZ: 6-9 April 2008.

McGinley, Michael A. and Charles M. McGinley, "Precision of Olfactometry and Odor Testing Results." Proceedings of the Water Environment Federation / Air & Waste Management Association Specialty Conference: *Odors and Air Emissions 2006*: Hartford, CT: 9-12 April 2006.

McGinley, Charles M., and Michael A. McGinley, "An Odor Index Scale for Policy and Decision Making Using Ambient and Source Odor Concentrations." Proceedings of the Water Environment Federation / Air & Waste Management Association Specialty Conference: *Odors and Air Emissions 2006*: Hartford, CT: 9-12 April 2006.

McGinley, Michael A. and Charles M. McGinley, "Performance Verification of Air Freshener Products and Other Odour Control Devices for Indoor Air Quality Malodours." Proceedings of the 8th Workshop on *Odors and Emissions of Plastics*: Kassel, Germany: 27-28 March 2006.

The above examples show St. Croix Sensory's commitment to advancing the science of sensory perception. St. Croix Sensory provides professional comprehensive service to a wide range of clients, from Fortune 500 companies to small businesses, large government agencies to international corporations. Our landmark service has earned our company international recognition in the odor measurement field. Our professional staff is respected worldwide as experts in the field of odor measurement. Finally, our odor sampling and testing products (i.e. olfactometers) are utilized all over the world and recognized for their innovative designs.

Please contact me if you have any questions about this information I have provided. We look forward to continuing our strong partnership with you.

Sincerely,


Donna L. McGinley
President