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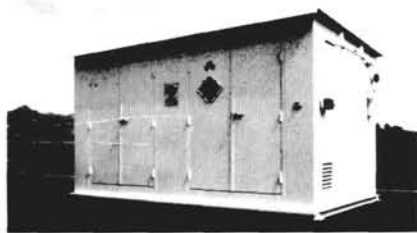
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(Pesticide Follow-Up cont'd.)

• In the late 1970's the major private laboratory that conducted toxicologic studies on developing products, deceived industry, federal regulators, and the public through negligent study procedures and make believe results.⁽⁶⁾ This is not as tragic as it sounds because other studies replaced the faulty information generated at the guilty lab, however, this brings a light of credence to reports that EPA testing procedures are questionable.

These are very enlightening situations. Knowing information such as this makes me better confront controversial situations, however, common sense must still reign. Roundtable panelist, Camille Stauber bases some of her opinions on the book "Chemical Deception", by Marc Lappe. (Lappe is a University of Chicago Toxicologist with an "extreme" reputation). Dr. Lappe would like us to believe that the world is saturated with cancer causing agents. In his book he responds to the question — "are there really risks hidden in our daily exposure to commonplace substances? My mind raced through the chemicals that I knew would cause health problems — pharmaceuticals he or his wife might have taken; chlorinated by-products and heavy metals in their drinking water; aflatoxins in their peanut butter; diesel exhaust from their cars; polychlorinated biphenyls in the fish he had just eaten; preservatives in the delicatessen food we had just eaten; benzopyrene in last weekends barbecued steak; and manganese, alcohol, and aldehydes in our beer."⁽⁷⁾

With this in mind, consider the following questions:

1. If the US population is being exposed to pesticides through the food we eat, the air we breath, and the water we drink, why has the life expectancy gone up from age 50 in 1900 to age 76 in 1985?⁽⁸⁾

2. If pesticides are responsible for massive outbreaks of cancer and many other maladies, why aren't Golf Course Superintendents, or more specifically workers in factories that manufacture pesticides, dropping like flies?

COMMON SENSE

What was the difference between the Superintendents and anti-pesticide people in attendance at the NCTE? 2 things — we have the ability to collect data from **both** sides of an issue and reach a conclusion based on that research. We are not swayed by emotional outcries or misrepresented information. Secondly, we have an open mind! Neither Ms. Stauber or Ms. Mullarky was there to learn or gain an appreciation for the "other side". It was obvious to me that they are misinformed, "there aren't many birds on golf courses ... Lt. Prior died from Daconil poisoning".⁽⁹⁾

I feel that America is being poisoned more by journalists and politicians than man made synthetic pesticides. I also know that pesticides are **not** completely safe, however when applied according to label recommendations and proper safety precautions are taken, the benefit is well worth the risks. The future of pesticides in golf course maintenance programs will be influenced by the "doomsdayers". Hopefully cooler heads will prevail and the anti-pesticide people will focus their attention on something else.

FOOTNOTES

1. Abrams, Robert, March 28, 1990 — Testimony Before the Subcommittee on Toxic Substances Environmental Oversight Research and Development of the Senate Committee on Environmental and Public Works.

2. Koop, C. Everett — Responsible Industry For a Sound Environment (RISE) handout.

3. Sagan, Kathryn, April 2, 1991 — "Poison in Your Backyard", Family Circle.

4. Allen, Frank Edward, October 14, 1991 — "Lonely Crusade", The Wall Street Journal

5. American Cancer Society — Cancer Response System 1993

6. Whelan, Elizabeth, "Toxic Terror", Jameson Books 1985 p. 132

7. Lappe, Marc, "Chemical Deception", Sierra Club Books 1991 p. 7

8. Office of Disease Prevention and Health Promotion US Dept. of Health and Human Services, "Disease Prevention/Health Promotion — The Facts," 1988 Bull Publishing.

9. Mullarky, Barbara, December 1, 1992 — Statement at NCTE Pesticide Roundtable Discussion.

Recommended reading:

"Chemical Deception", Marc Lappe, Sierra Club Books, 1991 (331 pages)

"Toxic Terror", Elizabeth Whelan, Jameson Books, 1985 (348 pages)

"Trashing the Planet", Dixy Lee Ray, Regnery Gateway, 1990 (206 pages)

"Environmental Politics and Policy", Walter A. Rosenbaum, Congressional Quarterly Inc., 1985 (328 pages)

Keep your fears to yourself,
but share your courage with others.

— Robert Louis Stevenson

(On the Waterfront cont'd.)

Several combination air vent/vacuum relief valves are available for control of air in systems. Air and vacuum release valves are designed to exhaust large volumes of air from pipelines during the filling process and to close positively when water reaches them. These valves operate either by a buoyant float closing the valve as the water rises or by the impact of the water against a plate or other valve closure element. The valve remains closed until the pressure drops below atmospheric pressure, as would result from draining the line. These types of valves close rapidly and will cause a significant change in velocity at closure, thus care should be used in their sizing and placement.

Combination valves are manufactured to perform the functions of both continuous-acting and vent/vacuum air release valves. Upon filling, a large orifice is opened. Once water reaches the valve, the large orifice closes and allows air to escape only through the smaller orifice that is actuated by a float mechanism.

Next month: Installation Considerations

White Water

by Fred Opperman

For all of the guys that have been white water rafting with us the past couple of years, you may want to get the January 1993 issue of "National Geographic", Volume 183, No. 1.

In it is the article, "Roaring Through Earth's Deepest Canyon" by Joe Kane and photographs by Zbigniew Bzdak. Why should we read this? Well, it is an article on Peru's Colca River and one of the 12 people who braved this river is our own river guide from Class VI — Robin Moore.

It's a story of a 12 day trip through the Colca canyon, a canyon that puts our Grand Canyon to shame for it is about 3-4 times as high or deep, depending on which way one looks at it. This is only the second time it has been rafted, the first time there was a fatality and the body never was found.

For anyone who has ever rafted with Robin Moore, you come away with deep respect of his knowledge for rafting. To watch him guide the raft so effortlessly at times and then at other times to see him lean out at 180 degrees and push and pull with those magic strokes of his paddle, you know you are in good hands.

A great example of his expertise is just this past trip with us in September. He was taunted that he couldn't flip his boat, well, he didn't flip the boat over, but he did flip out all eight guys in this one rapid and he was the only one who stayed in.



Robin Moore at his first look into the Colca Canyon, Peru



Robin states that this is his first "bonding" with the Colca River.



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