

# **STABILICE**

FROZEN FOUNDATION  
SYSTEMS



**Stabilice**  
**Cooling A Warm Planet**

**CEO SIMON EVANS**  
**Coauthored by GIZELE TAVARES**

**I met Simon Evans several years ago. Over the years, we have had many conversations about his ideas regarding climate change and how to mitigate its effects. After hearing about his concepts and the launch of his new startup company Stabilice, I decided to use my skills as a journalist to promote his company. And now, I'm assisting him with the publication of a book. It is our hope that this publication will reach the right audience to provide funding for his final and most important project.**

**Gizele Tavares**

## **Introduction**

I'm writing this brief now because I want to further explore a topic that I not only think is important, but critical to the survival of the planet as we know it. We have all heard the warnings regarding climate change, some people believe it, many don't. Regardless of your thoughts about climate change, global atmospheric CO<sub>2</sub> levels have risen significantly over the last half-century. In fact, published values of CO<sub>2</sub> levels from "General Chemistry" (March & Windwer, 1979.) were 318 parts per million (ppm). Current (2024) values of atmospheric CO<sub>2</sub> are 419 ppm (Google, 2024). That's a 101ppm increase in 45 years.

## **CHAPTER 1, The Environment**

I guess for most of my life, I've been concerned about the environment. One of my undergraduate degrees is in Civil and Environmental Engineering. At one point in my career I worked as an environmental engineer, and still hold a professional license. Environmental Engineering can be a dirty business, it seems like all of the money is in remediation, so you are usually cleaning up someone's mess. From fuel spills to other hazardous materials, it's an unhealthy environment to be in. One day I was doing some stack emissions testing at a hazardous waste disposal site, and the guy who I was working with and who had been in the business a while told me that I didn't want to work at a place like this because the people who work there tend to not live very long. He also told me that if there was an emergency alarm, to look at the wind-sock and run in the opposite direction.

So after several years in the environmental field, I began to transition over toward more civil engineering work and received a M.S. in Civil Engineering (CE) from the University of Alaska (UAA). I have continued to take graduate level engineering classes at UAA throughout my career. And after taking most of the CE classes of interest, I began to study Mechanical Engineering.

## CHAPTER 2, Growing Up

I grew up in Minneapolis, MN and have always been used to cold weather. When I was a kid, the lakes would freeze over and we would ice skate on them, which was always a great experience when the lakes froze prior to any snowfall and you could skate across the entire lake. After significant snowfall occurred on the lakes outside of the city, people would plow roads on the ice to make shortcuts across the lakes. In high school, we would drive all over the place on the ice roads doing fishtails and doughnuts in our parents' cars.

Every winter there was usually a period of deep freeze where the temperatures would stay subzero for weeks at a time. During these times, it was almost too cold to skate and be outside, so we had to find indoor activities to stay entertained. I started playing drums when I was about 10 years old, so when it was cold outside I always had something to do. Throughout high school, and for my first year of college at the University of Minnesota, I played in bands with my friends. In Minneapolis there were houses where band equipment was set up. So, we would go to these "jam houses" all the time and play music. We would play music even when it wasn't cold outside, but it was especially popular during the winter. I still like to play drums and keep my chops up in case I get a call. In fact, I recently got a chance to play drums for Electric Dead Grass. The drummer couldn't make the gig and I got the call!



...Dennis with Electric Dead Cross  
2024. There will be open water on Lake  
Hansen as early as the first of green and late  
snow cover melts the first time we've heard of this.

### **CHAPTER 3, Skiing and Ski Photography**

I moved to Alaska a couple of years after completing my undergraduate education. Living in Alaska has allowed me the opportunity to explore the pristine wilderness. Being surrounded by mountains and rivers, I spent years of my life fishing, biking, and skiing and got into ski photography. We were skiing in some of the most amazing places and couldn't find a photographer to shoot with. I moved to Alaska from Utah, where I had a lot of friends in the ski industry. There were a lot of ski photographers around Salt Lake City providing content for many of the ski magazines. Unable to find a reliable ski photographer in Alaska, I ended up with the job. It turned out that I happen to have an eye for photography.

At one point before the magazine industry got blown out by the internet, I made pretty good money shooting photos. I have amassed a huge collection of ski photos over the years. Throughout my photography career I have had numerous publications, and over ten magazine covers. Most of my photography has centered on skiing but I have begun to branch out into other areas such as wildlife and most recently fashion. Some of my work is shown here.



Alaska

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