



## Flu Symptoms But No Sniffles? Carbon Monoxide Poisoning Is a Killer

by VINCENT PICA

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Most of us have heard of a tragic story of some poor soul giving it all up by ending their life in the garage. Close the door, start the car and wait for a precious few

moments. For many of us, that is all the thinking we ever do about carbon monoxide poisoning – which can be fatal (see SSP, “Silent and Odorless – A Killer”, 4/25/07). Of all the dangers that the mariner confronts, carbon monoxide poisoning is perhaps the most dangerous since it is odorless, colorless and tasteless. Unarmed, you will never see it coming. Given its dangers, please read on.

### What Creates Carbon Monoxide?

Burning hydrocarbons, plain and simple. Diesel, gasoline, propane – all are hydrocarbons and carbon monoxide (CO) is a natural by-product of burning them. You cannot tune your engine not to create CO.

You can create CO-safe environments around and in your boat – but you cannot defy the laws of chemistry.

Your engine doesn't even have to be the one that is on. Your neighbor at the dock has his generator on to power the A/C and TV – and his exhaust is wafting into your cabin.

Also, it could be your engine but



you think that you are immune because you haven't enclosed your cockpit. You have only enclosed the windshield and side panel areas, leaving the aft wide open... well, called the “station wagon effect”, an area that is enclosed on three sides creates a vacuum behind it as it pushes ahead – and it is sucking CO into the “cup” it has created.

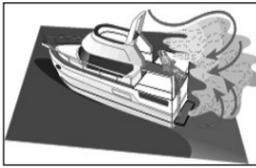
You are in that cup...

Even more tragic are the circumstances where (young?) boaters engage in “teak surfing”...

And the smell of it isn't what is killing you. What you smell is unburned hydrocarbons. What you can't smell is CO...

### What is it and how do you know you are succumbing to it?

Carbon monoxide (CO) kills you by attaching itself to your blood cells in a way that keeps your blood from picking up fresh oxygen as it passes through your lungs. You essentially suffocate slowly while surrounded by air. Little by little, the CO hitches a ride on your blood cells until there are no seats left on the life-sustaining bus (your blood) for the oxygen to sit. As it happens, you start to get headaches, muscle aches, excessive fatigue and nausea. As I tell my sea-



manship students, “If you are starting to feel like you are coming down with the flu, but you don't have the sniffles, get out of there! You may be dying of CO poisoning!”

### What do you do now!

Say you enter your cruiser, and you find a crew man lying unconscious on the sole of the cabin. The manual actually says that you are first to try to isolate the source of the fumes, extinguish them and proceed to get your mate to fresh air (to start the cleansing cycle of kicking the COs out of their seats and replacing them with Os!)

Here is where I am coming from. This strategy could cause two people to die from CO poisoning, not one. If you know that the only source of CO poisoning is YOUR engine, and you can kill it in a virtual flash, do it – or get out of there immediately and run for help! If you have to play Sherlock Holmes looking for clues, you are playing with your life. Remember, it could be your slip-mate's engine that is polluting your air. Also, the cabin has built up some degree of CO concentration. It may be a deadly amount and you don't have a chemistry kit in your pocket. You are gambling with your life.

You certainly can [1] grab a lungful of fresh air from outside, hold your breath and [2] try to drag the person out of the cabin. If you can't, [3] drop them and run for help. If you can get them out, but they are not breathing, give

them artificial respiration (sometimes called CPR) and scream for help between breaths!

### How to prevent it?

One, create fresh air paths that keep the station wagon effect from overtaking you from behind. Don't form that cup – crack a window somewhere and create a jet-stream through your boat. Just be aware that running on a “slow bell\*” may still create an opportunity for CO to build up in your cockpit. Two, put carbon monoxide detectors in ALL enclosed spaces, especially sleeping quarters. These devices can be battery-operated and are readily available. \$29.95 at places like Home Depot, Wal-Mart, the internet, etc... There are models that can be tied directly into your battery system like a bilge pump – never fails unless the battery itself is dead.

I've heard these devices. They can wake the dead. Almost. Be aware. Be safe. Always prepared – semper paratus...!

\* slow bell is putting just enough way on to maintain bare steerage. Back drafting can occur under such conditions – and you'll never smell it.

BTW, if you are interested in being part of USCG Forces, email me at JoinUSCGAux@aol.com or go direct to the D1SR Human Resources department, who are in charge of new members matters, at DSO-HR and we will help you “get in this thing...”



## County Clerk Update

by SUFFOLK COUNTY CLERK

JUDY PASCALE

### COUNTY CLERK PARTNERS WITH BUSINESS DEVELOPMENT CENTER

Suffolk County Clerk Judy Pascale and the New York State Small Business Development Center (SBDC) and its staff have teamed up to offer small business advice at the County Clerk's Riverhead office to both new and established small business owners.

“Whether you're a successful business person or someone just interested in starting a small business, the NYS Small Business Development Center and its advisors can be a tremendous resource in resolving organizational, financial, marketing and technical matters for small businesses,” stated Pascale.

An advisor from the NYS Small Business Development Center will be available at the County Clerk's Riverhead office on Tuesdays from 9 a.m. to 4:30 p.m. An appointment is required and can be made in advance by calling (631) 632-9837.

One of twenty-three campus-based regional Small Business Development Centers within New York State, the SBDC at Stony Brook brings together the resources of the University, the private sector and government at all levels to assist entrepreneurs, business and industry in the solution of their problems, leading to increased productivity and profitability. The SBDC is made up of talented and dedicated NYS Certified Business Advisors who take a personal interest in the success of your business. The SBDC at Stony Brook is under the auspices of the United States Small Business Administration, the State of New York and the Vice President of Economic Development at Stony Brook University.

“I hope all those seeking to start a sole proprietorship or partnership in the County Clerk's Office utilize this free and invaluable service. In this tough economy businesses can use all the help they can get,” concluded Pascale.

For more information on starting a business in the County Clerk's Office visit us at SuffolkCountyNY.gov/Clerk or for information on the SBDC visit StonyBrookSBDC.com.



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**INFO:**

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