# Oxygen and All That

(From "Tee Emm")

are merely shovelling in fuel—and the name Anoxia, or Altitude Sickif you've ever seen P.O. Prune's ness—which is putting it mildly. uncle in action, you'll realize that's There is naturally one remedy for just what it looks like tool The Anoxia. That is, extra oxygen, in fuel is then changed by combustion sufficient quantities to keep the into energy, the necessary oxygen blood properly saturated. Now by the air. The air is drawn in tra oxygen becomes necessary for through the nose—or through the any reasonable efficiency at that open mouth, if you're that sort of height if you are going to stay fellow!—into the windpipe and there for an hour or more. By the thence is carried by a series of time you are up to 15,000 feet it may be and smaller tubes to the is necessary for actual safety. More smaller and smaller tubes to the is necessary for actual safety. More tiny, thin-walled air-cells, of which and more is required as you go the lungs are mainly composed. higher, till at 35,000 feet you would The total area of the walls of these have to breathe pure oxygen, and air-cells is about the same as that at 40,000 feet even that would be no of a tennis court—though much good by itself.

more useful—and over this whole

You would also have to have a area the vein blood, returning from pressure suit or cabin, because the its job, loaded with carbon dioxide atmospheric pressure has now fallatmospheric pressure has now fall-but poor in oxygen, is getting rid en so low that you are in danger of its carbon dioxide, taking up of bursting outwards like a deep-oxygen from the air and turning sea fish brought up to the surface. These worthies again went into action on March 6. Fun, food, itself back into artery blood, rich in oxygen and off to work once more. To enable the blood to do this a certain Partial Pressure of this a certain Partial Pressure of the analysis of the analysis

one's enthusiastic appreciation of pilot flying an expensive aircraft one's own achievements. You lose with perhaps several companions, has been firmly turned to the right the faculty of accurate judgment or you can see the implications. You has been firmly turned to the right and is secure.) When portable oxyreasoned thinking, and, what's are a definite danger! And you do gen bottles are available, moving more, you don't know it. You may hot know it! Remember that men about is simpler, but they should be a proving the proving an oxia tests have been about its simpler, but they should be a proving the proving t more, you don't know it. You may not know it! Remember that men also be inclined to hilarity or pugnacity—as with too much beer. You are indeed a pretty dangerous person to be piloting an aircraft; you are equally dangerous as a intensive navigator, because—just as in the later stages of a cocktail party, when you take a poor view of anything requiring much concentrated with the middle of writing a sentence, and then on receiving oxtensive to that if baling out.

Oxygen cylinders hit by a bullet are less liable to cause damage when pressure is reduced. It is important, therefore, to turn on all the middle of writing a sentence, and then on receiving oxtensive that if baling out. the simplest navigational problems yourself fall victim to the fallacy (If you do work them out, you of thinking that to use oxygen is get a wrong answer, which, unforget a wrong answer, which, unfortunately, you are convinced is the "You weaklings have to take oxy-

ny to your friends, but is no joke to The body is nothing more nor you. It may also give you agoniz-less than an internal combustion ing muscular cramp. All this disengine. Every time you eat you tressing business is lumped under

which operation comes from the time you are at 10,000 feet, ex-

to anyone.

Pressure is the pressure is the pressure exerted by any one of a mixture of gases and is proportionate to the percentage of that gas in the mixture. At ground level the Partial Pressure of oxygen is just right for the blood; when, however, you get the blood; when, however, you get in blood; when, however, you get in blood; when, however, you get in blood; when, however, you get oxygen to high altitudes the atmospheric pressure of it oxygen. The blood, therefore, cannot be sufficiently saturated and you suffer from lack of oxygen. The blood, therefore, cannot be sufficiently saturated and you suffer from lack of oxygen are at first just grand. They have even been compared to the effects of lack of oxygen lack. You are in the oxob, and who can say fairer than that? You are on the top of the world and chock-full of self-confidence, without any tendency to that self-criticism which so often spoils one's enthusiastic appreciation of one's own achievements. You lose to the sufficiently several companions, who can so of the sufficiently self-criticism which so often spoils one's enthusiastic appreciation of one's own achievements. You lose the flying an expensive aircraft one so when achievements. You lose take it in time, This means you must go by the altimeter, not by the first just pressure of that gas in the mixture. At ground level the mixture of gases and its proportionate to the surfure and the mixture of the surfure of the surfure of the same you think you need oxygen and so cause for any reason relieve it, deep slow and rise of the way out. You do suffer from shortage at my time while flying, and cannot rip-cord: you may, even—for such for any time while flying, and cannot rip-cord: you may, even—for such for any time while flying, and cannot for any time while flying, and cannot in the flying is the best way of count-careful the effects. While you of a varient plant and th

when you take a poor view or anything requiring much concentrated gen can do for you. Guard against
thought—you don't want to be
it

bothered with working out even
the simplest navigational problems.

The second point is, don't let long flight so that the pressure has
the simplest navigational problems.

You do work them out, you of thinking that the year arms in it.

tunately, you are convinced is the "You weaklings have to take oxylessens the blood's power to absorb right one!) To crown all, you may gen; I don't; I'm tough" doesn't deven pass out without knowing it.

In the later stages oxygen-lack note toughness—so much as dumbness and damfoolishness. Remembers and damfoolishness. Remembers and damfoolishness. Remembers and damfoolishness and damfoolishness and damfoolishness of the crew may go short of oxygen—because you have, in effect, smoked it and drunk it the night before.

This means you want more oxygen to keep efficient. In other words, not only you, but the rest of the crew may go short of oxygen—because you have, in effect, smoked it and drunk it the night before.

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The later stages oxygen to keep efficient. In other words, not only you, but the oxygen because it's oxygen.

The later stages oxygen to keep efficient. In other words, not only you, but the oxygen should be used of the rew may go short of oxyg

Dance Caterers



All the above is really old stuff;
Now there are two main points the important thing is this "Partial Pressure is the pressure of the important than a pressure is the pressure of the interval of the important than a pressure is the pressure of the important that it is that you must be emphasized about a case a "tonic"; for all the oxygen we hope it'll never come to that.)

The first is that you must be emphasized about a case a "tonic"; for all the oxygen we hope it'll never come to that.)

Excessive smoking or drinking lessens the blood's power to absorb

The one thing that keeps a mar

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## SECTIONAL NEWS

CUES FROM STATION HDQS.

March 2, 1942

Alliston, and according to rumors of good authority a certain Corporal ber. got so hot coming home he rode with We also would like a little ad- It was further agreed at the how I got my start!

well-dressed Airman on the statures.

event, says there is not a bit of event, says there is not a bit of tion and the marvellous shoulder What's the matter with Sgt. Mc-luck in charms while our friend fit he got. Mighty fine suit, eh! Burney unloading a hundred rolls Cristo says a wish-bone of the pro-Major, and a very good exchange, of "non-skid" in our midst. Are per size, dipped in vinegar, and

wish to express our sincere con- He finished in second place. gratulations to Flight Lieutenant M. ter luck next time, Chappie. F. Badgley on his recent promotion friends, yours truly is still hanging on and with his many benefactors throughout the station. Have cour-

For the information of those concerned, a well-known Ex-Sgt. of HQ's Orderly Room, Sgt. D. D. Dodge, now stationed at Patricia Bay, B.C., has become the proud father of an eight-pound daughter. Congratulations, Delmar.

"Roly" Bradette and Earle Record is colour-blind."

F/S Bean was the recipient of a Ronson combination cigarette across the pond to join many exacross th Congratulations, Delmar.

Travel, speed, and communication are wonderful things today folks, namely of the Bell Telephone Sys- "schooner" of Bass' Ale in the first tem, but who were the two who visited the floriet in Barrie and Comments that the floriet in Barrie and the floriet in Barr tem, but who were the two who visited the florist in Barrie and a half hour later had two large size Commanding, F/Lt Krug, on his aphoxes of roses (Red Ones) one depointment as Examining Officer of lovered at Pickering and the other No. 2 Squadron. Our loss is their Toporto Poils Store Friends gain and the sting of regret is somewife wouldn't let me keep him.

F. R. Davis, the ace Nostradamus nant. Singapore Sam, has quit taking Our instructor personnel has ground trips to Alliston and East changed again. We are sorry to lose but instead is devoting all his time P/O MacKelvie to A Flight. We to the Asistic citration his or extend a greeting hand to P/O But to the Asiatic situation, his as-extend a greeting hand to P/O Bursistant being Hop-along Kaminsky. den and P/O Martin.

So readers again caught by the In signing off this epistle, let us Deadline, remember the old saying, extend a welcome to LAC Murphy

### SIMPLE

in stature but very keen on his the meaning of alter ego?"

job. He'd had rather a tiring time Student—"It means other I." inspecting shelters when a large Teacher—"Can you give me an man asked in a bullying manner: example of its use?" "What can I do with my five Student—He winked his alter kids in a shelter that's full of wat- ego."

Then the worm turned. varden, curtly.

But maybe the old fashioned girl Wasted energy is like telling a didn't 'ell mother everything behair-raising story to a bald-headed cause she didn't know everything.

## H FLIGHT

steaming right ahead with only one thing in mind and that is Victory.

(Down with Hitler and throw Churchill another cigar.)

Some of the local boys attended a dance held in the Boleic Boysta. Some of the local boys attended a by scholars, where a wedding to elect their own convenor. We dance held in the Palais Royale, up in Sudbury, where a wedding to elect their own convenor. We dance held in the Palais to rumbur feast consists of icicles and blub-feel sure that they will have full

his head hanging out of the win- vance notice on our Badminton ace, meeting that full cooperation dow. Nice work Corporal, that's P/O Lowe, who takes a dive off should be extended to the Y.M.C.A. the deep end on the 28th of this to assist with the games nights held Many of you readers no doubt re- month. We hope it's not too deep at the Airmen's Club each Monday

we like that, I ask you!

More news for you comrades next to Squadron Leader. Of course my time, so long for now. -"DAL."

## FLIGHT NEWS

best of luck and trust "Roly" gets his efforts toward the establishment the odd piece of lemon pie. As for of a Recreation Room. Andy Mc-Earle, we know he will enjoy a Kee made the presentation.

at Pickering and the other No. 2 Squadron. Our loss is their at the Toronto Daily Star? Friends, gain and the sting of regret is somethat's what I call speed. What do you think, Lou? The other man—"No, sir. My wife wouldn't let me keep her even if I did win."

"We did it before and we can do it who comes to us from Dauphin, again." Until next issue, So Long. Man., and to AC2 Mathews, fresh—"WING." from T.T.S., St. Thomas.

The air raid warden was small Teacher in Latin class-"What is

Initiative never lacks opportun-"Teach 'em to swim!" snapped the ity. It cannot remain undiscover-arden, curtly.

ed because it is sought by too many

## CIVIES SORTIES

At a recent meeting of the Civies events. It was learned that the adian Dental Corps, who at present
This outpost gang are still in the Camp Sports Committee had sanc- are on top of the league edging Surprised, eh! I mean with HQ's having two editions running consecutively. Well friends, we've turned over the flying spikers by one point. The secutively. Well friends, we've turned over the flying spikers by one point. The flyers' record is remark-on the same basis as that accorded able when one considers that

co-operation.

member the olden days when peo- and not too cold.

member the olden days when peo- and not too cold.

ple would exchange one thing for a These two stalwarts of this flight another. Well friends, times haven't have what it takes, so here's wish-changed a bit. You should see the ing them lots of luck in their ven- won the grand prize at a recent dusted with cinnamon will bring A little behind time perhaps, but Sgt. Chapman endeavoured to good results. Mr. Cristo is also in we, the staff of HQ's Orderly Room, beat Sitting Bull's record last week.

This little dialogue was heard las

1st Batman: "Why did you have that Summer Uniform pressed in February?"

pressed. I merely asked the presser to get So and So's uniform and press it. I guess he's the one that

### VOLLEYBALL SPIKES

The No. 1 S.F.T.S. team has progressed through the Camp Borden held in their club room, the main Schedule with 16 wins and only discussion centred around sports two losses, the latter to the Can-

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