The following is a song by **Ralph A. Lewin** (1997), from "The Biology of Algae and Diverse Other Verses", pp. 6-9. The Boxwood Press, California. It seems to fit the tune of "Home, home on the range". It is here for your enjoyment; annotated notes on the names of scientists mentioned follow the song.

Folksong About Moonshine Assimilation, Or Something

O, 'way out on the Bay
There's some chlorophyll a
Where the quanta of photons accrue;
And 'way out in the Sound
Where the plankton abound
There are algae that's fixin' CO_2

They call it that good ol' CO_2
And them that can fix it is few.
If you turn on a light
They can spend all the night
'Similatin that good ol CO_2

It was Otto[1] who said,
With a shake of his head,
"Let us see what *Chlorella* can do."
It can set up a store
Of three quanta, or four,
And can use them for fixin' CO_2

They call it that good ol' CO_2
(u.s.w.)

And then old Uncle Hans[2]
Said we hadn't a chance
To extract an insoluble clue.
But they proved he was wrong—
As you'll learn from this song—
About fixin' that good ol' CO_2

They call it that good ol' CO_2
(etc.)

And then old Cousin Kees[3]
Came and joined in the race
With bacteria, red, white, and blue.
You don't have to be green—
If you see what I mean—
To engage in the fixin' CO_2

They call it that good ol' CO_2
(etc.)

And then poor Cousin Mel[4]
Had to struggle like hell
On the path where the carbon went through;
But, to no-one's surprise
He was 'warded a prize
For his studies in fixin' CO_2

They call it that good ol' CO_2
(etc.)

And then young Cousin Dan[5]—
He's the kind of man
Who just wonders what extracts cans do—
Found that chlorophyll juice
Was enough to reduce
Just a smidgen of labeled CO_2

They call it that good ol' CO_2
(etc.)

Now my Cousin André[6]
Found an easier way—
And we'll give the young fella his due.
He's lost most of his hair
Catchin' carbon from air
In a system for fixin' CO_2

They call it that good ol' CO_2
(etc.)

Now we've come to the stage
When such fixin' the rage—
And it seems not to matter by who.
If you give us a chance
We're as good as the plants
At the fixin' of good ol' CO_2

They call it that good ol' CO_2
It's a process that many can do.
If you'll turn off the light
We'll respire all the night,
Generatin' some more CO_2

Notes by Govindjee (January 26, 2003)

[1] Otto Warburg . He was a 1931 Nobel laureate in Physiology & Medicine.He discovered the chloride and bicarbonate effects in photosynthesis, among many many other things; he introduced manometry and the use of single-celled alga *Chlorella* for photosynthesis research. See http;// www.nobel.se/medicine/laureates/1931/).

[2]Hans Gaffron. In 1936, he proposed the idea of "Photosynthetic Unit" based on the 1932 work of Robert Emerson and William Arnold ; he discovered photoreduction of CO_2 by hydrogen.

[3]Cornelis ("Kees") B. van Niel. He is known as the father of research on photosynthetic bacteria.

[4]Melvin Calvin. He was a 1961 Nobel laureate in Chemistry for the discovery of the path of carbon in photosynthesis. See http: //www.nobel.se/chemistry/laureates/1961/calvin-bio.html

[5]Daniel ("Dan")Arnon. In 1954, he discovered photophosphorylation in chloroplasts.

[6]Andre Jagendorf. He provided key evidence for Peter Mitchell's chemiosmotic hypothesis in chloroplasts. Mitchell received the 1978 Nobel Prize in Chemistry, see http://www.nobel.se/chemistry/laureates/1978/mitchell-bio.html