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Summer Workshop - Carbon Dioxide: A Double-edged Sword for Our Health and the Planet
Registration Deadline: Thursday, June 20, 2024
university Program Dates: Monday, July 29 - Thursday, August 1, 2024 (4 days)
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## Program Schedule:

Daily schedule: $9 \mathrm{am}-3 \mathrm{pm}$ with 30 minutes lunch break.
Talks \& hands-on activities on the pros and cons of an increasing level of $\mathrm{CO}_{2}$ around us \& computer modeling
-Start a partnership with SBU science faculty
-Develop exciting hands-on activities
-Gain a deeper understanding on the role of $\mathrm{CO}_{2}$
-Earn a CTLE certificate (up to 22 hours-provided through CA BOCES)


Supported by
Register via CA BOCES.
Non-CA BOCES schools, please contact Laurie Sledge@caboces.org

For program details, please contact:
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## Program Description (www.sbu.edu/teacherworkshop)

St. Bonaventure University invites K-12 teachers to the $9^{\text {th }}$ annual lab development workshop on July 29August 1, 2024. This year's topic is

Carbon Dioxide ( $\mathrm{CO}_{2}$ ): A Double-edged Sword for Our Health and the Planet
Instructor(s): SBU faculty, Dr. Lin Xiang, University of Kentucky and CABOCES facilitators.

## The objectives of this workshop are:

(1) Teachers will learn knowledge of the science for $\mathrm{CO}_{2} /$ bicarbonate buffer system and how it works to maintain pH in our blood and the ocean.
(2) Teachers will learn and test the effect of $\mathrm{CO}_{2}$ on pH in different aqueous solutions.
(3) Teachers will learn how to use computer model to understand the chemistry behind Ocean Acidification
(4) Teachers will learn how Inheritance and Variation of Traits could affect blood pH regulation
(5) Teachers will discuss and plan for classroom implementation.

## Space is limited. Please register early!

CTLE Credits: CA BOCES will provide up to 22 hours of NYS Continuing Teacher/Leader education (CTLE) credits.

