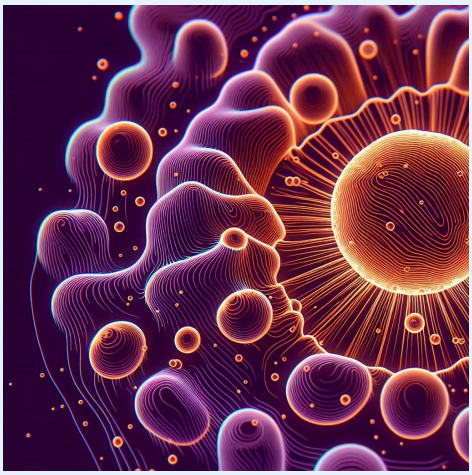
ACS Orange County Section

Dinner Meeting and Scientific Presentation

Wednesday, April 2, 2025

Waters Corporation Facility
3540 Howard Way, Suite 100/125
Costa Mesa, CA 92626

Make your reservation NOW



Social: 5:30 PM 🧪 Dinner: 6:00 PM 🧪 Program & Presentation: 7:00 PM

Reservations
Please contact us as soon as possible, but no later than 12 noon on Monday, March 31, 2025 at OCACS@sbcglobal.net. Indicate if you will be attending the dinner and program or the program only. List all the names of attendees and special food requests like vegetarian or gluten free. There is a limit on the number of attendees, so make your reservation early.

Dinner cost is $25 for members and members' significant others; $35 for non-members or those without reservations. **Teachers and students who register for this meeting will receive a $10 discount on their dinner**. Since we are not at this time set up to accept credit cards, please plan on using a check or cash.
Note: OCACS pays the caterer on the basis of the number of dinner reservations made. Your reservation for dinner is a commitment to pay.

Presentation

Killing Cancer with Real and Ideal Gases

John E Eberts
Adjunct Instructor, Santa Ana and Orange Coast Colleges

Abstract:
Almost everyone has had a wart or precancerous lesion frozen with liquid nitrogen, but what happens when a cancerous lesion is inside the body? Real and ideal gases can be circulated through a closed system to kill the cancer by freezing and thawing it. High pressure argon gas functions as a real gas that demonstrates the Joule-Thomson effect to freeze the cancer while helium displays ideal gas characteristics and heats up when it expands from a high-pressure state. The system used to introduce these gases involves computer-controlled valves which cycle the gases through sealed needles. It can also cycle gases through multiple needles at the same time to maximize the kill zone. Ultrasound or x-rays can be used to monitor the size of the freeze zone to ensure that the cancer is killed while minimizing damage to surrounding tissue. This technology has been used extensively for prostate cancer and is also being utilized for kidney and liver cancer. Additional details regarding the technology and the science behind it will be presented.

Speaker Biography
John Eberts has many years of practical chemistry experience in the medical industry. He has been involved with a wide range of projects related to both pharmaceuticals and medical devices. His academic interests are also extensive, having taught business and theology classes. Mr. Eberts is

currently teaching chemistry at Santa Ana and Orange Coast Colleges. His education began in in St. Louis, but he came to California to study at Stanford University where he earned a Bachelor of Science degree in chemical engineering. He then diversified his education by earning a Master of Business Administration degree at Pepperdine University as well as a Master of Arts degree at Fuller Seminary. Mr. Eberts then returned to his chemistry roots and earned a Master of Science degree at University of St. Joseph. He has been the husband of his wife Kim for 38 years and is a proud grandfather to three grandsons and one granddaughter.

Click below to email us immediately

Reserve my dinner

American Chemical Society, Orange County Section

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