



## Iota Sigma Pi

National Honor Society for Women in Chemistry

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### **Iota Sigma Pi Gives 2023 Violet Diller Award for Professional Excellence to Anmarie Grover Carlton of University of California Irvine.**

*Iota Sigma Pi, the National Organization for Women in Chemistry, has selected Dr. Anmarie Grover Carlton of University of California Irvine as the recipient of the 2023 Violet Diller Award for Professional Excellence. The Violet Diller award is a triennial professional award and serves to recognize outstanding contributions to chemistry and allied fields by a woman.*

Dr. Carlton is a Professor of Chemistry at the University of California Irvine. She has earned her B.S., M.S., and Ph.D. in Environmental Engineering from Rutgers University. After working at the EPA as a Research Scientist, she joined Rutgers University and then University of California Irvine. She also served as a Revelle Fellow to the Office of Science and Technology Policy (OSTP) in the White House where she advised policy makers on climate change and air pollution issues.

The award will be presented to Dr. Carlton at the Iota Sigma Pi 2023 Triennial Convention in suburban Chicago.



Dr. Carlton's research is focused on Atmospheric Chemistry and Climate. She studies formation of organic particles, their chemistry and impact on human health and welfare. Her work led to a paradigm shift in understanding the particle's behavior and the way it was predicted with models. She designed and implemented several impactful field studies such as the Southern Oxidant Aerosol Study (SOAS), the largest study of air pollution in a decade, that involved over 20 research groups and over \$20 million of funding. The studies led to remarkable results and allowed them to address existing discrepancies between model predictions and experimental observations. Recently she has also initiated a project to use machine learning in prediction of the particle's chemistry.

She has authored over 70 publications in high impact peer reviewed journals, with more than 6000 citations.

As a result of her achievements, she has been recognized by numerous prestigious awards like the American Geophysical Union Ascent award and the American Chemical Society Women's Chemist Committee Rising Star Award. She has also received multiple awards from the EPA, Rutgers University, and the American Association of Women Geoscientists.

Dr. Carlton is passionate about translating and delivering scientific knowledge to the general public and policy makers and is very active in science outreach. Her colleagues have enthusiastically commented on her leadership and communication skills, creativity, and mentorship. As one of her notable nominators stated: “Dr. Carlton is a force for good. Through her engagement with the broader community, she has brought science to the people.”

**IOTA SIGMA PI** is the National Honor Society for Women in Chemistry. Its major objectives are *to* promote interest in chemistry among women students, to foster mutual advancement in academic, business, and social life; and to stimulate personal accomplishment in chemical fields. IOTA SIGMA PI serves to promote the advancement of women in chemistry by granting recognition to women who have demonstrated superior scholastic achievement and high professional competence by election into IOTA SIGMA PI. [www.iotasigmapi.info](http://www.iotasigmapi.info)

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