

About the Conference

This conference is designed for POGIL practitioners to gather together and share ideas, challenges, and successes regarding the use of POGIL in their classrooms. The format will include various types of participant-centered sessions where practitioners will share their ideas for new POGIL activities, explore implementation strategies related to using the POGIL format, and work with others to design new POGIL activities or methods of implementation.

Participants will leave with new ideas for POGIL activities, new strategies for implementation, and new colleagues for collaborative projects.

Another purpose of the conference is to serve our growing population of practitioners, including teachers from a wide range of disciplines at all levels, and who serve minorities and underrepresented groups. All participants will be seeking ways to use POGIL to improve and enhance student learning in their fields.

TRANSFORMING EDUCATION & EDUCATORS



- ▶ **Develop skills as a practitioner and broaden your participation and contributions in the POGIL community.**
- ▶ **Work together to improve student learning and develop as a reflective educator.**



NCAPP 2021

TRANSFORMING EDUCATION & EDUCATORS

JUNE 28-30, 2021

University of Utah • Salt Lake City, UT

Registration with On-Campus Housing:

\$850 includes breakfasts, lunches, and dinners

Commuter Registration:

\$700 includes lunches and dinners

THE UNIVERSITY OF UTAH is the flagship institution of higher learning in Utah. The 1,535-acre campus is located in Salt Lake City and is only minutes from rugged mountain bike trails and downtown amenities. Situated at the foot of the Wasatch Mountains in the state's capital city, the campus benefits from and contributes to the rich cultural history and sophisticated metropolis allure of Salt Lake City.

SALT LAKE CITY features a clean, walkable, and friendly downtown, and is one of the great food cities in the West. The downtown abounds with local-centric shopping and impressive malls, as well as parks and museums.

FOR DIRECTIONS TO THE UNIVERSITY OF UTAH, PLEASE VISIT:

www.utah.edu/directions

FOR MORE INFORMATION ON THINGS TO DO, VISIT:

www.visitsaltlake.com or www.utah.com



WWW.POGIL.ORG

Established in 2003, The POGIL Project works with educators to disseminate its unique student-centered pedagogy at the secondary and college levels through professional development workshops, as well as the production of curricular materials for the classroom. The POGIL Project is a 501(c)(3) nonprofit organization.

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Welcome to NCAPP

The POGIL Project's third National Conference to Advance POGIL Practice (NCAPP) will take place June 28-30, 2021 at the University of Utah in Salt Lake City. While the acronym is the same, we've changed the name a bit in order to make sure that even if you are relatively new to POGIL, you know that NCAPP 2021 is the perfect conference to develop skills as a practitioner and to broaden your participation and contributions in the POGIL community.

Our previous two NCAPPs provided participants with an interactive and energized environment for POGIL practitioners to exchange ideas, share new developments, and learn from experts. Participants left the conference with new ideas for implementation and facilitation, knowing that the support of the POGIL community continues with them into the classroom, no matter where it is located.

NCAPP 2021's theme is "Transforming Education and Educators"—the conference will serve to connect practitioners from a variety of disciplines and experiences in an effort to transform the educational experiences of our students while simultaneously transforming ourselves.

We encourage applications from across all areas and instructional levels. NCAPP 2021 will be richer if we hear voices from a broad background of experiences. If you've been to a POGIL workshop and you've used POGIL in your classroom, NCAPP 2021 is for you! With the sustained support of our community, we can transform classrooms, educators, and learning. We want you to be part of our transformational experience.

Gail Webster
Co-Chair



Chris Mayfield
Co-Chair

Plenary Speakers

VALERIE OTERO, PH.D.

is a Professor of Science Education at the University of Colorado Boulder, specializing in Physics Education Research. She received her bachelor's from the University of New Mexico and her M.S. and Ph.D. from the University of California, San Diego. She is co-founder and executive director of the Colorado Learning Assistant program, the International Learning Assistant Alliance, and the Physics through Evidence, Empowerment through Reasoning (PEER Physics) Suite. She has advised the National Academy of Sciences, the American Physical Society, the National Governor's Association, and NASA on issues in undergraduate STEM education, high school teacher preparation, and pre-college science. Her innovative instructional models have spread throughout the world, reaching hundreds of universities throughout the U.S. and in 14 other countries. She is also known for her work on the history of physics education reform. A Chicana, first-generation college student, Otero grew up working after school at her parents' grocery store and at the New Mexico State Fair, where she still works each September. She is committed to building and sustaining programs that reach diverse stakeholders in STEM education, with the goal of inspiring and supporting students from minoritized groups to find self-love, belonging, and advocacy through science.



MARE SULLIVAN

has a B.S. in Biological Sciences (Stanford University) and an M.S.P.H. in Environmental Health (University of Washington). She moved from a first career as an industrial hygiene inspector and consultant to a second career spanning more



than 30 years of teaching in varied settings from preschool through university. Attending her first POGIL workshop in 2005, she quickly immersed herself in the pedagogy and the community. She has used her POGIL skills to develop two high school courses: a chemistry course built on POGIL activities and inquiry labs and a Physical Science course built on learning cycle-based lab activities. She has facilitated and developed dozens of POGIL workshops over the past 15 years – one of which has become the annual POGIL Writers' Retreat. She has also published four collections of NGSS-based POGIL activities for middle school and high school students. Mare currently gets her fix of teenagers by supervising secondary science teacher interns through Seattle Pacific University in Seattle WA. She constantly juggles the roles of teacher, mentor, wife, mom, grandma, neighbor, friend, and author.

KIMBERLY TANNER, PH.D.

is a tenured Professor of Biology at San Francisco State University. Her laboratory, SEPAL: the Science Education Partnership and Assessment Laboratory, investigates what is challenging to learn in biology, how biologists choose to teach, and how to make equity, diversity, and inclusion central in science education efforts. As a Science Faculty with an Education Specialty (SFES), she is engaged in discipline-based education research, directs multiple K-16+ biology education reform efforts, and is deeply engaged in faculty professional development. Trained as a neurobiologist (B.A. in biochemistry from Rice University, Ph.D. in neuroscience from UCSF) with postdoctoral studies in science education, Dr Tanner is a proud first-generation college-going student. She has been nationally and internationally recognized for her research and teaching in biology.



Sessions

▶ AUTHOR COACHING: MAKING IMPROVEMENTS

Facilitated small group reviewer training and feedback for one of your existing activities using the POGIL Activity rubrics. Includes one pre-NCAPP videoconference (reviewing writing POGIL activities) and three sessions at NCAPP. *Limited slots available.*

▶ BIRDS OF A FEATHER GATHERINGS

Informal conversations on topics of common interest.

▶ FACILITATION FISHBOWLS

Brief classroom simulations designed to improve facilitation skills. Presenters will facilitate an activity of their choice, while participants will serve as observers or students, followed by reflection and discussion.

▶ POSTER SESSION

Presenters engage in informal discussion with participants using a visual display of their topic and ideas as a catalyst for conversation.

▶ PROFESSIONAL DEVELOPMENT WORKSHOPS

Gain new insights into teaching and learning with the assistance of trained facilitators.

▶ ROUNDTABLES

Facilitated, in-depth, interactive discussions to learn from and with other participants.

“The interactions at POGIL meetings are top-notch, in part because both high school and college instructors are always present. It also helps to hear from people with a variety of different perspectives and situations, especially since we are all deeply committed to student learning.”

— CARYL FISH, ST. VINCENT COLLEGE

Who Should Apply?

NCAPP encourages applications from POGIL practitioners who have previously completed three-day POGIL workshops or who have experience implementing POGIL in their classrooms. All conference participants will be expected to contribute to the planned program.

Application Process

The application/registration process will open in Fall 2020 with opportunities to indicate your proposed area(s) of participation. The program committee will review all applications and will notify applicants of their acceptance as soon as possible after the deadline, and up until the attendance maximum is reached. *Limited scholarships are available for NCAPP attendance. Please see the application for more details.*

