

2024

ANNUAL IMPACT REPORT



**Green Chemistry
Teaching and Learning
Community**

A joint initiative by



beyondbenign
green chemistry education



ACS Green Chemistry Institute
Chemistry for Life®

© 2024 Beyond Benign Incorporated. Beyond Benign Incorporated and the American Chemical Society Green Chemistry Institute declare no competing interest in the publishing of this document.

A Message From the GCTLC Team

The first full year of the [Green Chemistry Teaching and Learning Community's](#) (GCTLC) operation has been an incredible journey and resounding success. We were thrilled to witness a steady influx of users from around the world joining the platform daily, surpassing over 1,700 user registrations in the first year — a milestone that speaks to the growing engagement within our community. Resources were shared and submitted by community members to the GCTLC's open-access library, while meaningful interactions continue to flourish in our forums. The momentum is building, and we are excited to see what the future holds!

We are also grateful for the continuing leadership and guidance of our Advisory Committee and were especially thrilled to welcome four new committee members this year from the K-12 sector. Our newly established subcommittee of K-12 teachers is continuing to provide support to educators working across the primary and secondary education continuum on the site. Our dedicated Forum Moderators also provided exceptional leadership, fostering meaningful engagement and creating a welcoming space where users can connect, share insights, and learn from one another.

This year we were also delighted to hear positive and encouraging feedback from our existing GCTLC users in our inaugural Annual Survey. Major results showed that 83% of respondents think the GCTLC is the best place to access green chemistry education resources and 68% said the GCTLC helped them feel like they belonged in the green chemistry education community. This feedback will help us continue to improve the GCTLC to support this vibrant and dedicated community of green chemistry educators in the years to come.

In this report, we provide an overview of the remarkable things our community has been up to this year. We are particularly excited to spotlight the many community contributions to the platform that have helped strengthen its purpose as a meeting place and source of trusted information for those who want to collectively transform chemistry for a sustainable and just future.

We invite you to explore the platform with us and read about the great things happening on the GCTLC. Welcome to your green chemistry education community space!



DR. JONATHON MOIR

Director
GCTLC



DR. NIMRAT K. OBHI

Program Manager,
GCTLC

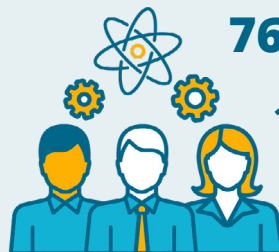
TABLE OF CONTENTS

A MESSAGE FROM THE GCTLC TEAM	3
TABLE OF CONTENTS	4
EXECUTIVE SUMMARY	5
The GCTLC Platform at a Glance	5
<i>Special Highlight: the 2024 Annual Survey</i>	7
OUR COMMUNITY: ONE YEAR+ AFTER LAUNCH	8
Over 1,200 Users Joined the GCTLC in 2024	8
GROWTH OF THE RESOURCE LIBRARY	10
Resources at a Glance	10
Community-Contributed Resources	11
Top Community Contributors in 2024	11
<i>Spotlight: Community Resources</i>	12
<i>Spotlight: Curated Collections</i>	13
COMMUNITY SPACES AND ENGAGEMENT ON THE PLATFORM	15
Meet our Forum Moderators	15
<i>Spotlight: Community Forums in 2024</i>	15
Welcoming New Leaders on the GCTLC	16
Engagement Activities in 2024	17
Groups Beta-Testing and 2025 Launch	18
PROMOTIONAL ACTIVITIES AND COMMUNITY OUTREACH	19
FUTURE OUTLOOK	21
SPONSORS AND STRATEGIC PARTNERS	22
Our Founding Sponsors	22
APPENDIX	23
Meet the GCTLC Internal Project Team	23
Contact Us	23
Meet the GCTLC Advisory Committee	24

The GCTLC Platform in 2024 at a Glance



1,746
Registered Users



764 Higher Education Educators
191 K-12 Educators
402 Student Leaders
384 Professionals & Staff



84
Countries Represented



62,701
Site Visits



315
Curriculum Resources



5,741
Curriculum Resources Downloaded

Data as of December 31, 2024. Excludes Beyond Benign staff members. Note that many users selected multiple organizational affiliations.

The GCTLC is an online platform — *built by the community, for the community* — designed to transform chemistry education worldwide. A collaborative effort by Beyond Benign and the American Chemical Society (ACS) Green Chemistry Institute, the GCTLC is the place for a supportive and nurturing community of teachers, educators, faculty, student leaders, industry stakeholders, and anyone with an interest in green chemistry education to share, connect, learn, and grow.



Community Members: The GCTL saw a large increase in user registrations for the platform in 2024, totaling 1,746 users just one year after our launch in October 2023. These 1,746 users on the GCTL represent diverse educational sectors and 84 countries around the world.

Resource Library: More resources were uploaded to the platform, peer-reviewed, and published this year from GCTL community members, with over 300 pieces of educational content available on the platform by the year's end. We also saw an increase in user downloads of our resources (over 5,200 downloads in 2024 alone), and responses from our inaugural Annual Survey launched in August 2024 indicated that our open-access resource library is a major contributing factor to users continuing to return to the GCTL.

Community Spaces: Engagement within the GCTL's community spaces flourished this year, with hundreds of forum threads and comments fostering dynamic discussions and collaborations. Users connected and networked in the forums during in-person conferences as well as during Beyond Benign's virtual events. To further enhance interaction, we introduced several online engagement initiatives, including the highly successful community-led Ask Me Anything (AMA) Q&A interviews with featured green chemistry educational experts. These are slated to continue into 2025 and beyond.

The events calendar and job board saw hundreds of uploads this year, with people tuning in from around the world to attend events and apply to green chemistry education positions. The beta testing for group spaces on the GCTL was completed, with technical development finalized and a 2025 launch strategy in place. Groups will provide dedicated topic-based working and interactive spaces for communities on the platform.

GCTL Support Team: Finally, the GCTL team welcomed a new Chief Editor and Chief Moderator, along with five Forum Moderators, multiple new peer reviewers, and four new members to the Advisory Committee from the K-12 sector. We are excited to continue working with these community leaders to support and sustain a strong sense of belonging for all who join the platform. A heartfelt thank you goes out to our sponsors and funders, whose generous support makes it possible for us to continuously enhance and grow the GCTL. Their contributions are instrumental in advancing the platform to better serve the exceptional members of the green chemistry educational community.

Special Highlight: the 2024 Annual Survey

This year, we launched our inaugural Annual Survey of GCTLC users to gather feedback on their experiences using the platform and their feelings about the interactive community spaces. The highlights are captured here.

The survey was open on the GCTLC from September 24 to October 21, 2024, and we received 94 responses (6% response rate). The majority of respondents are from the higher education sector, live in North America, are white, and identify as women.

THE MAJORITY OF RESPONDENTS SAY THE GCTLC SUPPORTS THEIR GREEN CHEMISTRY TEACHING AND LEARNING.

83% indicated they thought the GCTLC is the best place to access green chemistry education resources.

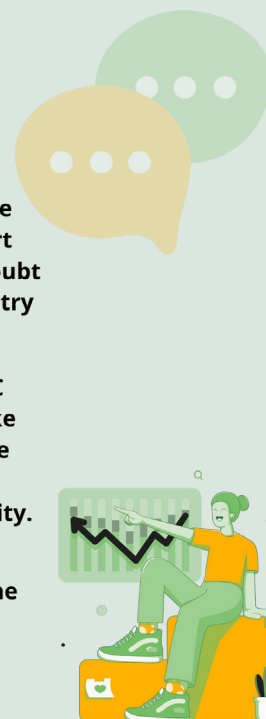
70% use or plan to use resources from the GCTLC library in their teaching.

82% indicated they want to engage with others on the GCTLC.

68% said the GCTLC is the place to find support when they are in doubt about green chemistry content.

68% indicated the GCTLC helped them feel like they belonged in the green chemistry education community.

Users indicated that the open-access resources, the searchable library, and the ability to upload and download resources keep them returning to the GCTLC.



What did users say about their experiences on the GCTLC?

You are doing an amazing job!! You have encouraged me to keep going telling everyone about the importance of green chemistry for a sustainable future, I know I'm not alone in this huge task, thank you!!

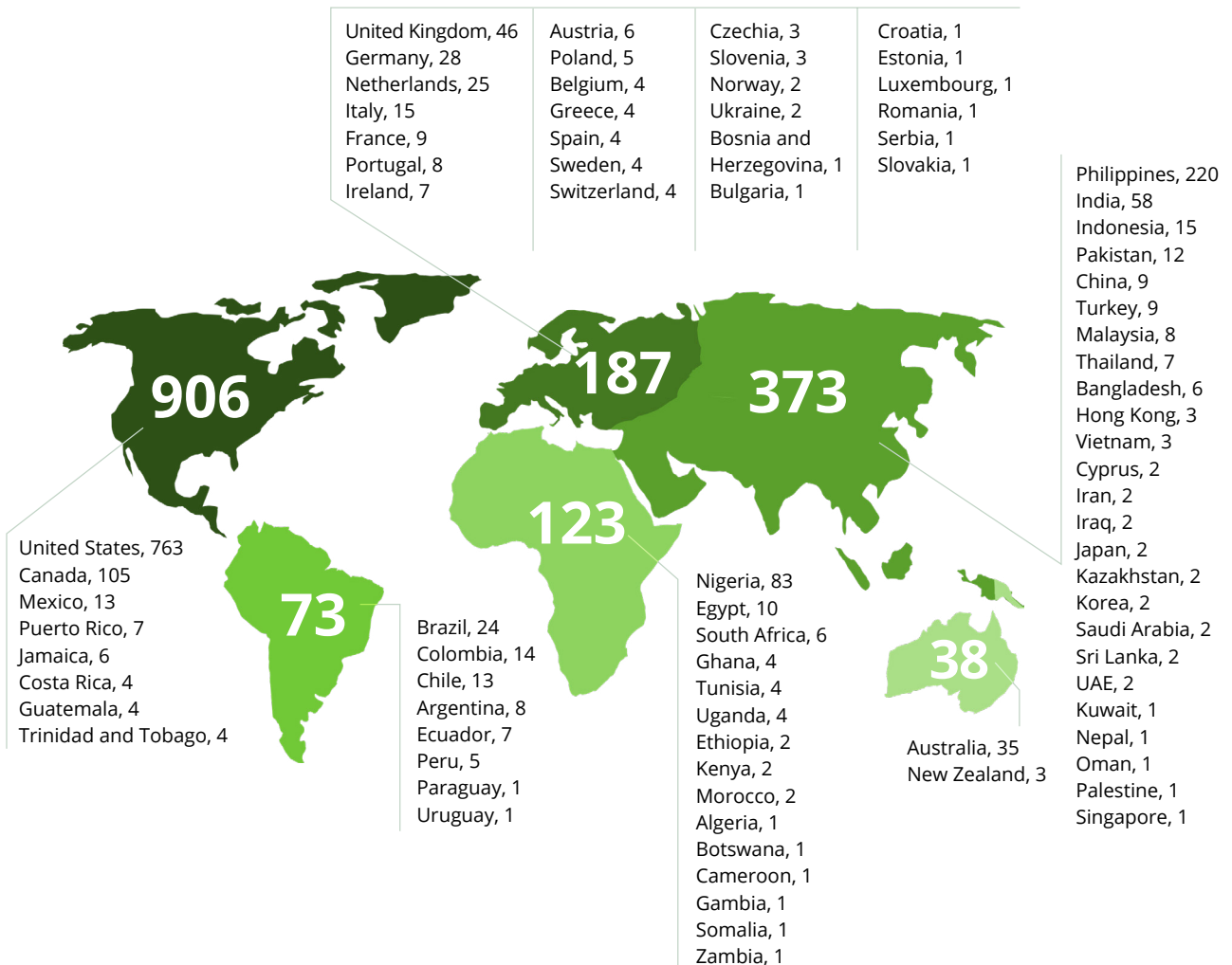
Using the GCTLC has strengthened my belief that green chemistry is important for students to learn.

Thank you for being an amazing team. My involvement with this project has been one of the most rewarding experiences of my career.

I am going to continue using this platform. It is an amazing tool to learn and contains a lot of resources.

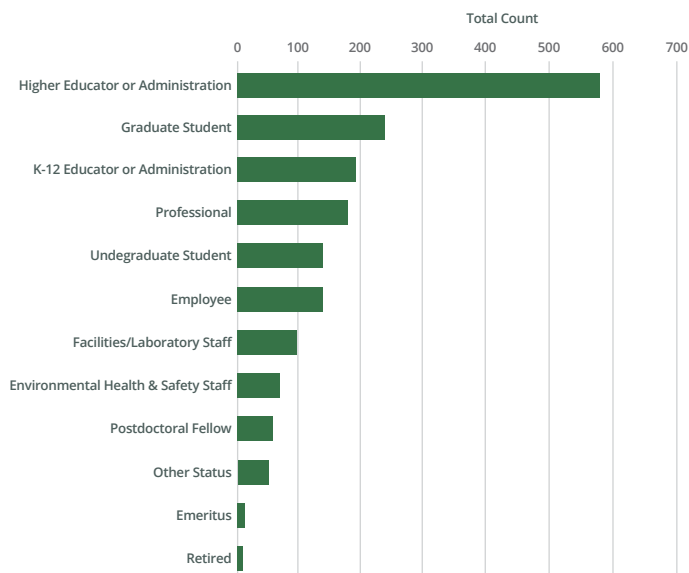
Over 1,200 Users Joined the GCTLC in 2024

Since the beginning of the year, more than 1,200 NEW users have joined the GCTLC at a rate of approximately four users per day, bringing our total registered users up to 1,746. The community is growing quickly and internationally; the platform welcomed users from more than 30 additional countries this year alone. We also saw growth and expansion of the GCTLC user community across Asia, notably in the Philippines.



Over the last year, the community has grown to 1,746 users worldwide. More than 80 countries are represented on the platform with the majority of GCTLC users from North America, Asia, and Europe.

GCTLC USERS' ORGANIZATIONAL AFFILIATIONS

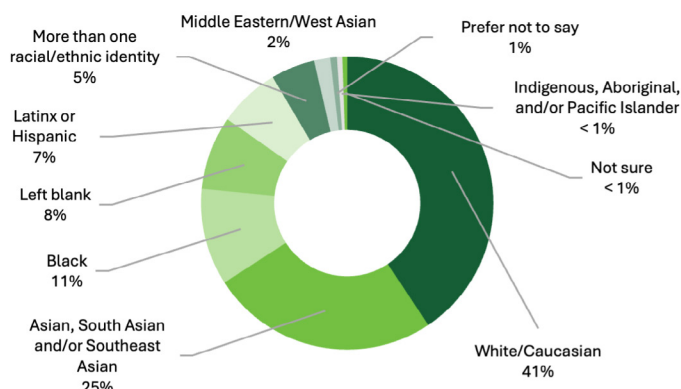


The majority of GCTLC users are from the higher education sector; however, users from all sectors continued to join the GCTLC in 2024.

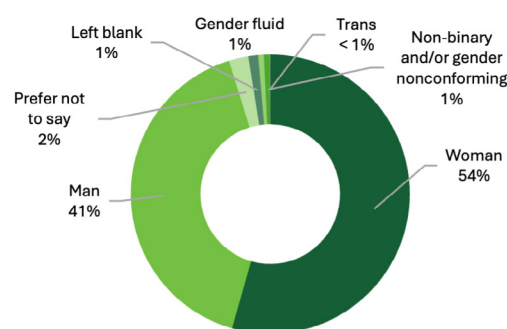
All data as of December 31, 2024. Excludes Beyond Benign staff. Many users selected more than one career affiliation.

The number of students on the platform, both graduate and undergraduate, increased more than fivefold compared to the previous year.

RACIAL/ETHNIC IDENTITIES OF GCTLC USERS



GENDER IDENTITIES OF GCTLC USERS



Identities are voluntarily self-reported and provided in aggregated format (non-attributed). Data as of December 31, 2024.

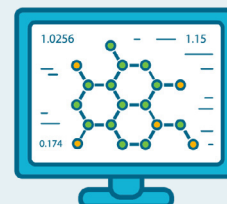
User demographics show that the representation of gender identities in the GCTLC user base did not change compared to the previous year, despite the large increase in users. Racial/ethnic identities in the user base show that more people identifying as Asian, South Asian, and/or Southeast Asian joined the platform in 2024.

Beyond Benign is committed to supporting policies and practices that create a strong sense of belonging for all users on the GCTLC and fostering a diverse and flourishing community of green chemistry education practitioners. Learn more about diversity, equity, belonging, and respect practices on the GCTLC by reading our recent publication in the journal [Sustainable Chemistry and Pharmacy](#).

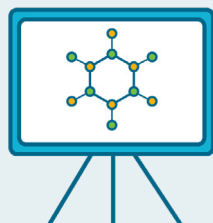
Resources in 2024 at a Glance

**138**

Greener Lab Experiments

**348** Higher Education tags**196** K-12 Education tags**164** Professional/Other tags**108**

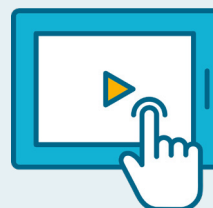
Journal Articles

**85**Activity/
Technology
Resources**60**Lecture or
Course
Slides/Notes**26**

Case Studies

**22**

Assessments

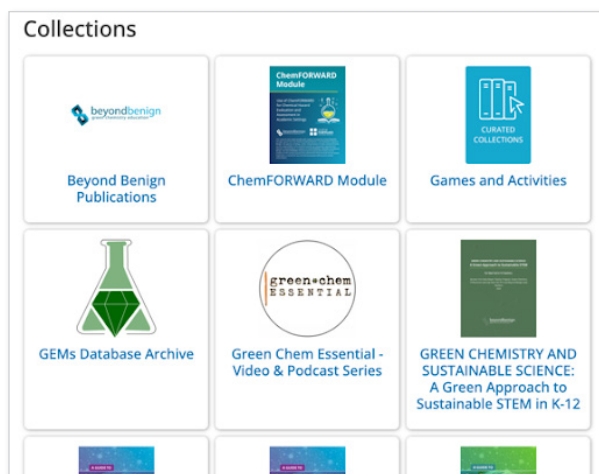
**35**

Videos

**315**Curriculum
Resources

Data as of December 31, 2024. Note that many resources are tagged with multiple audience levels and types.

Community-Contributed Resources



In 2024, 146 resources were added to the GCTL resource library, which now houses 315 published resources. Additions to the library are growing, with more and more community-submitted resources being published on the platform every day. Users can browse the [resource library](#) to find individual resources, or they can visit the [Curated Collections page](#) to browse themed resource sets.

Our spotlights that follow highlight select community-submitted resources from our library and the community members who contributed them.

Top Community Contributors in 2024

Congratulations to these community contributors who uploaded the most resources to the GCTL library in 2024! Users can upload their original work to the library, or they can upload links to work authored by others (such as journal articles or other published reports). This year our top contributors uploaded a mix of original resources and published articles. Check out our spotlights:



Laura Barnes is the Sustainability Information Curator and Strategic Communications Coordinator at the Illinois Sustainable Technology Center at the University of Illinois and is also a Forum Moderator on the GCTL. This year Laura uploaded 13 resources to the library, primarily highlighting published journal articles such as [The Relevance of Sustainable Laboratory Practices](#), [Teaching Green Chemistry](#), [Sustainability Ethics](#), and [Toxicity Using Nail Polish Removers](#), and [Systems Thinking Approaches for International Green Chemistry Education](#).



Green Chem Essential is a media channel launched in late 2022 and run by James Rea. Green Chem Essential's goal is to bring stories of green chemistry research and other activities to people outside the field (e.g. consumers, voters, taxpayers, policymakers, etc.) to help advance green chemistry. In 2024, Green Chem Essential uploaded 10 original video interviews with prominent green chemistry advocates and leaders to the GCTLC resource library. Users can find resources touching on a variety of topics, including [A Look Inside the University of Toronto's Green Chemistry Initiative](#), [How Green Chemistry Can Help Advance Environmental Justice](#), and [The Student Who Inspired the Professor Who Inspired the World](#). Green Chem Essential's videos are part of a [Curated Collection](#) on the GCTLC.



Michael Cann is a Professor Emeritus of Chemistry at the University of Scranton. In the early 2000s, Michael led a team of faculty members to develop nine green chemistry teaching modules inspired by winners of the EPA's Green Chemistry Challenge Awards. These modules were designed and used to infuse green chemistry across the curriculum through several chemistry courses: toxicology, advanced organic chemistry, biochemistry, and environmental, general, industrial, inorganic, organic, and polymer chemistry. In 2024, the modules were migrated in their original formats to the GCTLC resource library, where they are now available to users as a [Curated Collection](#).

Spotlight: Popular Community Resources

Check out the top downloaded resources in 2024 authored by GCTLC community members:

[A Guidebook for Sustainability in Laboratories](#)

Contributed by: [Thomas Freese](#) (University of Groningen)

This guidebook aims to improve lab users' everyday practices to become more sustainable. Specifically, the guidebook provides practical suggestions on how to effectively use lab instruments and resources and how to acquire data. It provides advice for labs covering disciplines such as biology, chemistry, computational science, engineering, life sciences, materials sciences, medicine, pharmacy, and physics.

Tie-Dyeing with Tannins and Iron

Contributed by: [Julian Silverman](#) (Assistant Professor, Fashion Institute of Technology)

This laboratory experiment uses tannins from acorns and iron from rusted metal to color cotton fabrics. It explores renewable dyes, oxidation and reduction reactions, and the creation of organometallic coordination polymers from waste resources. By using renewable and waste feedstocks, you can address green principles while having some fun tie-dyeing in the lab.

An Inexpensive Aquarium Pump Water Recirculator for the Teaching Laboratory

Contributed by: [Jason Cooke](#) (Inorganic Chemistry Laboratory Coordinator, University of Alberta)

This resource describes the design and operation of a simple and inexpensive water recirculator, which can replace wasteful running-water “tap-to-drain” applications such as providing cooling to Liebig-type (water jacket) condensers. The described water recirculator has been used successfully to replace conventional tap-to-drain cooling for Liebig-type condensers in undergraduate experiments carried out by more than 300 students over four years.

Spotlight: Curated Collections

This year saw the addition of several curated collections. These collections provide a convenient place for multiple resources that are related, making it easy for users to find educational materials as part of a series or set. Check out our spotlighted collections:

Green Chemistry and Sustainable Science: A Green Approach to Sustainable STEM in K-12

Authored by: [Scott Carlson](#), [Annette Sebuyira](#), [Veronica Morabito-Weeks](#), [Stefanie Loomis](#), [Erin Mayer](#), [Jake Foster](#), and [Mollie Enright](#).

This collection comprises an entire textbook written by a team of New York educators that supports new and veteran teachers in using green chemistry principles to engage all students in learning experiences through sustainable and safe means. Resources and practices reflect the updated standards and elements of instructional best practice, such as storylines, driving questions, and phenomena, with an emphasis on green chemistry.

ChemFORWARD Module

Authored by: [Mark Mason](#), [Cynthia Woodbridge](#), [Heather McKenney](#), [Gabrielle Rigutto](#), and [Monica Soma Hensley](#).

This module was co-developed by a team of higher education faculty members across the United States. The collection consists of several three-lesson units that aim to help higher education instructors teach students how to use the ChemFORWARD platform to obtain hazard information for specific chemicals and to identify safer chemicals to replace chemicals of concern in research and product formulations.

Methylene Chloride (DCM) Replacements

In 2024, the [U.S. Environmental Protection Agency \(EPA\)](#) finalized a [ban](#) on most uses of methylene chloride (DCM). Through a collaboration with the Laboratory Safety Institute, Beyond Benign co-organized [a webinar](#) in September 2024 to help researchers and educators explore greener substitutes for DCM and better understand how this ban affects them. As part of this effort, this collection comprises crowd-sourced resources that highlight DCM substitutes and how they may best be implemented. This collection also ties to [a forum space](#) where educators can discuss DCM replacements. Add your own resources to this collection by [submitting to the library](#).



Community Spaces and Engagement on the Platform

The GCTLC has interactive spaces where community members can post questions, highlight green chemistry education events, and even submit open job positions. This year, interactive [forum spaces](#) on the GCTLC provided countless opportunities for community members to ask questions, share ideas and insights, learn about best practices, seek out speakers, and more. Throughout the year, community members increasingly created their own forum topics and contributed to others' forum topics. By the end of the year, 164 forum topics had been created, with 557 comments overall. The [events calendar](#) actively promoted both Beyond Benign-organized and community-submitted events around the world, while the [job board](#) saw over 100 positions advertised!

MEET OUR FORUM MODERATORS

We welcomed five Forum Moderators to the GCTLC in 2024. They monitor new forum topics and comments (while additionally contributing to the forums themselves) and encourage engagement among community members. Check out their GCTLC profiles below to connect with them:



Laura Barnes
Illinois Sustainable
Technology Center



John De Backere
University of Toronto



Sajith Jayasinghe
California State
University,
San Marcos



Conrad Jones
Southern University



Jerald Villarmino
Chulalongkorn
University

Spotlight: Community Forums in 2024

Engagement in the forum spaces increased this year, with many new faces commenting and sharing resources. Of the numerous forum topics created, we've highlighted a few that saw networking, resource sharing, and connections to community events:

28th Green Chemistry and Engineering Conference, started by **Dr. Yiben Wang**. Yiben created this forum as a virtual tie to the in-person Green Chemistry and Engineering Conference in Atlanta, Georgia, that ran from June 2 to 5, 2024. New users who registered for the GCTLC while at the conference used this forum as a place to network and keep in touch virtually after the conference ended.

Resources for Designing a Course Around Water, started by **Dr. Charity Lovitt**. Charity was asked to create an upper-year course on water chemistry at her institution and was looking for helpful resources on the GCTLC to get started. Users commented in her forum, sharing resources to support designing a higher education course on water chemistry with a potential for community engagement with local partners. Resources shared included textbooks, journal articles, webpages, government resources, and stories about successful community engagement projects.

Equitable Grading? What is the meaning of equitable grading in the classroom? started by **Esther Hines**. Esther posed this question in the High School forums to examine what grading equitably could look like in the classroom and provoke conversation on teaching chemistry with social responsibility. This forum is part of the **Observe, Wonder, Think** webinar series and connected with the December 2024 event.

WELCOMING NEW LEADERS ON THE GCTLC

As the GCTLC continues to grow, we have expanded our leadership team to support the increasing number of resource submissions, interactive community spaces, and the launch of group spaces in 2025. To better serve our community, we have separated the roles of Chief Editor and Chief Moderator and are thrilled to welcome two new leaders to these positions!



GCTLC Chief Editor **Dr. Sarah Kennedy** (she/her) is an Associate Professor at Radford University with a research background in biomolecular structure, green chemistry pedagogy, chemical education, and inclusive pedagogy. Sarah teaches biochemistry, general chemistry, and green chemistry and manages the university-wide RISE (Realizing Inclusive Student Excellence)

program that focuses on faculty professional development as well as building academic belonging for students. Sarah also works as a consultant with the American Chemical Society Green Chemistry Institute, specifically with the green chemistry module development project.



GCTLC Chief Moderator **Dr. Alisha Szozda** (she/her) is a postdoctoral fellow at Carleton University in Ottawa, Ontario, Canada, where her work focuses on equity, diversity, and inclusion transformation in STEM. She teaches a Chemistry for Engineers course at Carleton University where she embeds concepts related to green chemistry, sustainability principles, and systems thinking. Alisha completed her Ph.D. in chemistry specializing in chemistry education research at the University of Ottawa with Dr. Alison Flynn, during which time she also joined the IUPAC Systems Thinking in Chemistry for Sustainability: Toward 2030 and Beyond project.

We also extend our deepest gratitude to **Dr. Sarah Prescott** for her invaluable contributions as the GCTLC's inaugural Chief Editor and Moderator. Her leadership in peer review, community engagement, and platform development played a key role in our success during the first year. We sincerely thank her for all her work in building and strengthening the GCTLC community!

These leadership positions reflect our ongoing commitment to fostering a dynamic, well-supported platform where educators, students, and professionals can connect, collaborate, and advance green chemistry education together. Stay tuned to meet our new leadership team and learn more about their vision for the GCTLC's future!

Engagement Activities in 2024

At the beginning of the year, the GCTLC team developed a Community Engagement Strategy, outlining our goals for user engagement and recommendations for enhancing the platform to better serve our growing community. We subsequently launched various engagement activities over the year to promote community connections and interactions on the platform. Here are some key highlights:



Ask Me Anything (AMA) Interviews: This year we started a series of Ask Me Anything (AMA) interviews to showcase diverse leaders in green chemistry education on the GCTLC and encourage community members to interact informally with these leaders in a **dedicated forum space** over the course of a week.

The interviews are unique as GCTLC community members are the interviewers; users can pose questions by commenting in the leader's forum thread. Our first two AMA interviews featured [Dr. John Warner](#) and [Dr. Amy Cannon](#) as the experts, with over 70 comments in the forum threads. The GCTLC team will continue these AMA interviews into 2025 and beyond. We are excited about featuring more and more community members on the GCTLC.

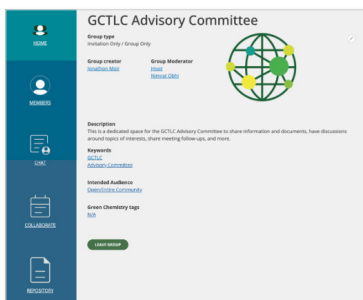
Green Chemistry Commitment (GCC) Summit Forum Engagement: During the 2024 GCC Summit, hosted on Zoom, the GCTLC team supported numerous educators from GCC signer institutions to comment and engage in [the forum connected to the Summit event](#). This space was provided for attendees to keep in touch during and after the event, with users from around the world introducing themselves and interacting with each other.



Online Raffle: In Spring 2024, the GCTLC team created a tiered raffle that ran from March to June, prompting users to complete their user profiles, comment in forums, and upload events, resources, or job postings to the platform. We saw engagement from over 180 users as part of the raffle and awarded cash prizes to six winners!

Scavenger Hunt Week Activities: We designed a series of fun activities slated for launch in 2025 to help users familiarize themselves with navigating the GCTLC and generating more user connections across the site. Participants will visit different areas of the site and complete challenges once they arrive, making learning about the platform both fun and rewarding. We look forward to seeing the community come together for these engaging activities.

Groups Beta Testing and 2025 Launch



In 2024, the GCTLC team finalized the development and beta testing of group spaces for launch in the summer of 2025. Groups have been designed to support communities of users who want to collaborate on projects or topics within a dedicated space.

Group spaces will include a group's description and dedicated moderators, as well as a Members tab to view all the users who are part of the group. The Chat tab houses group-specific discussions, while the Collaborate and Repository tabs enable specific resources to be shared and worked on by group members. Variable privacy permissions mean that groups can be created ranging from completely private spaces to fully open and visible spaces.

Promotional Activities and Community Outreach

ACS SPRING NATIONAL MEETING

MARCH 17-21, 2024 – NEW ORLEANS, LOUISIANA, UNITED STATES

Over the course of the conference, close to 100 people registered for the GCTLC while visiting our booth in the expo hall. Drs. Jonathon Moir and Nimrat Obhi also presented on using the GCTLC's resource library to address the updated ACS guidelines for bachelor's degree programs and using the site to interweave environmental justice into green chemistry teaching practices, respectively.

ILLINOIS SUSTAINABLE TECHNOLOGY CENTER (ISTC) SEMINAR SERIES WEBINAR

APRIL 9, 2024 – VIRTUAL

The University of Illinois Institute for Sustainability, Energy, and the Environment hosted a 2024 virtual seminar series showcasing talks from researchers, policymakers, and corporate executives. Drs. Jonathon Moir and Nimrat Obhi co-presented a seminar on using the GCTLC platform to transform chemistry education for a sustainable future. The presentation went into more detail about the platform's diversity, equity, belonging, and respect initiatives.

UNIVERSITY OF TORONTO GREEN CHEMISTRY INITIATIVE (GCI) SYMPOSIUM

MAY 15-17, 2024 – TORONTO, ONTARIO, CANADA

This three-day symposium was hosted by the Green Chemistry Initiative student group at the University of Toronto for students and faculty across Canada interested in green chemistry advocacy. Dr. Nimrat Obhi attended and gave a presentation on the importance of community for global green chemistry education reform, highlighting the interactive spaces on the GCTLC and its intention as a platform for a global community of practice.

ACS GREEN CHEMISTRY & ENGINEERING (GC&E) CONFERENCE

MAY 15-17, 2024 – TORONTO, ONTARIO, CANADA

The GCTLC team hosted a booth at the conference where engagement with community members happened both in-person and online. Users engaged in the GC&E forum to introduce themselves and to keep in touch after the conference. Team members also presented on diversity, equity, belonging, and respect initiatives on the site as well as the technical aspects of the GCTLC that enable our open-access resource library.



Dr Jonathon Moir presents on the GCTL C.

THE BIENNIAL CONFERENCE ON CHEMISTRY EDUCATION (BCCE)

JULY 28-AUGUST 1, 2024 - LEXINGTON, KENTUCKY, UNITED STATES

The BCCE was the main conference for the GCTL C team's engagement and educator support efforts this year. We ran a collaborative greener labs workshop, engaged with community members at our Beyond Benign booth, hosted a GCTL C informational "Birds of a Feather" session

(which included a resource upload station for educators to have dedicated time to submit their work for peer review), and presented on the technical development of the site as well as our approaches to community engagement through a lens of diversity, equity, belonging, and respect.



THE GCTL C TURNS 1 YEAR OLD!

We celebrated our first birthday on October 10, 2024, with a special newsletter release and a large thank you to the vibrant, engaged, and supportive members who make up this exceptional community.



Future Outlook

We are tremendously excited for the future of the GCTL platform. In 2025, we are excited to launch groups that provide dedicated spaces for collaboration, networking, and project development. Additionally, we are making key improvements to enhance the interactive spaces on the platform, ensuring they are more accessible, visually engaging, and user-friendly. With these expanded features, the GCTL will continue to serve and evolve as an inclusive and dynamic hub for educators worldwide.

What's ahead in 2025?

- Launch group spaces to support educational communities in networking, sharing, connecting, and working together.
- Run open calls for resources focused on timely and impactful topics connected to broader societal events.
- Enhance the user experience by introducing reaction modules and tagging functionality to foster greater interactions.
- Expand interactive activities on the site, continuing popular initiatives such as the Ask Me Anything (AMA) interviews and Scavenger Hunt Weeks while introducing new engagement opportunities.
- Increase in-person and virtual outreach, grow the resource library, and create more opportunities for users to connect, collaborate, and innovate.

As we refine and expand the GCTL offerings, we are eager to continue supporting our global community of green chemistry and sustainability champions. We look forward to sharing more updates in the years ahead and invite you to [explore, engage, and grow with us on the platform!](#)



Sponsors and Strategic Partners

The GCTLC would not be where it is today without the unwavering commitment of our sponsors and grantors. Since the beginning, our founding sponsors have been the bedrock of support that made the launch of the GCTLC possible. We are grateful for their dedication and passion for green chemistry education and look forward to continuing our great work with them for many years to come.

In addition to our founding sponsors, we are grateful to our strategic partners for contributing to the GCTLC:

- Lab Safety Institute
- Vernier Science
- My Green Lab
- Royal Society of Chemistry
- Science Buddies

If you are interested in sponsorship or partnership opportunities with the GCTLC, please reach out to Nicki Wiggins, Chief Operating Officer at Beyond Benign (nicki_wiggins@beyondbenign.org).

Our Founding Sponsors



THRIVE

**Millipore
Sigma**



GROW



NURTURE



SEED



Meet the GCTLC Internal Project Team



beyondbenign
green chemistry education

Beyond Benign is a non-profit organization whose mission is to foster a green chemistry community that empowers educators to transform chemistry education for a sustainable future.



Dr. Jonathon Moir
Director for the GCTLC



Dr. Nimrat Kaur Obhi
Program Manager for the GCTLC



Dr. Amy Cannon
Executive Director and Co-Founder



Amanda Trellopoulos
Director of Operations



Dr. Omar Villanueva
Chief Program Officer



Nicki Wiggins
Chief Operating Officer



ACS Green Chemistry Institute
Chemistry for Life®

AMERICAN CHEMICAL SOCIETY

The American Chemical Society Green Chemistry Institute catalyzes green chemistry and engineering to promote sustainability, prosperity and equity across the global chemistry enterprise.

Contact Us

Dr. Jonathon Moir, Director: jonathon_moir@beyondbenign.org

Dr. Nimrat Kaur Obhi, Program Manager: nimrat_obhi@beyondbenign.org

Dr. Sarah Kennedy, Chief Editor: chief_editor@gctlc.org

Dr. Alisha Szozda, Chief Moderator: chief_moderator@gctlc.org

Share feedback on the platform in our [Wishlist Forums](#).

Meet the GCTLC Advisory Committee

The GCTLC's Advisory Committee provides guidance for the ongoing growth, development, and advancement of the GCTLC platform. This year we welcomed four new members to the Advisory Committee from the K-12 sector. 2024 also saw the creation of the new K-12 Subcommittee, a subset of the Advisory Committee that provides guidance and recommendations to support K-12 educators on the GCTLC.



Alexey Leontyev
North Dakota State
University



Andrea Oseolorun
Prairie View A&M
University



Barb Morra
University of Toronto



Vânia Zuin Zeidler
Leuphana University



Scott Carlson
W.H. Maxwell High
School



Stefanie Loomis
Questar III BOCES



Veronica Morabito-Weeks
Bretton Woods
Elementary School



Conchita Jiménez-González
GlaxoSmithKline



David Laviska
ACS Green Chemistry
Institute



Glenn Hurst
University of New
York



Laura Barnes
Illinois Sustainable
Technology Center



Raksmeý Derival
Innovation Academy
Charter School



**Ettigounder (Samy)
Ponnusamy**
MilliporeSigma



Megan Arnett
Berkeley Center for
Green Chemistry



Gisele Rubino
Retired K-12
Educator



Ann Lambert
Retired K-12
Educator



Green Chemistry Teaching and Learning Community

A joint initiative by



beyondbenign
green chemistry education



ACS Green Chemistry Institute
Chemistry for Life®