WE ARE CUR
CONNECTING COMMUNITY THROUGH A TURBULENT YEAR
2020 YEAR IN REVIEW
CUR TEAM
Views from the desks of CUR's Executive Officer + Board President.

LEADERSHIP
Meet the intellectual leaders for the field of undergraduate research.

DIVERSITY, EQUITY + INCLUSION
Conscientious work to develop a culture and community prioritizing diversity, equity, and inclusion.

ADVOCACY + PARTNERSHIPS
Our strengthened commitments to the value of undergraduate research.

COLLABORATION + COMMUNITY
Step into the models of cohesion that reach across CUR.

ACCOUNTABILITY + SUSTAINABILITY
The evaluation + new beginnings that balanced advancement of CUR's mission.
At the start of 2020, CUR launched the slogan “We are CUR.” I believe it succinctly expressed the CUR community spirit, as we are a welcoming community that comes together to solve problems while supporting, sharing, and learning with and from one another. As this year draws to a close, I recognize the wallop this year has packed; it certainly was a year of challenges. In light of all we have faced, we had the right mindset all along. Amid the substantial challenges of this year, this incredible community showed its resilience; commitment to each other and its extended constituencies; and strength in finding entirely new ways to support and promote high-quality mentored undergraduate research, scholarship, and creative inquiry together. This embodies the unique environment of CUR.

In February and March, as your personal and professional lives seemed to shift tectonically overnight, the CUR National Office quickly moved to find new ways to provide resources, learning opportunities, and connection among the community. You pivoted with us as we transitioned CUR’s Posters on the Hill, Biennial Conference, and institutes to a virtual environment. In these transitions, there has been lots of learning:

∙ Zoom fatigue is real—a significant aspect of our newly virtual world.
∙ Twitter proved to be an amazing venue for sharing the impact of undergraduate research more broadly.
∙ Posters on the Hill reached thousands of new viewers beyond the typical several hundred individuals who attend in-person.
∙ Virtual events have engaged a broader swath of the undergraduate research community and partners due to their flexibility for participants and audiences.

Although many have missed connecting in person, I believe this year has unexpectedly brought our community closer. We have seen increased engagement in the CUR Community, generous support and sharing in our new CUR Conversations, and additional circulation of tips and tricks in the Five-in-Five video series. In the pages that follow, you will find the people, programs, and accomplishments of this year. There is much to be proud of, and it is the hard work of the CUR staff, volunteers, and community members that made it possible. Thank you.

In 2021, may we build on the resilience displayed this year and provide resources, services, and support that embodies our vision, enriching and advancing society through undergraduate research, scholarship, and creative inquiry. As we continue to grapple with the challenges of overlapping personal and professional spaces, and I may be home in my slippers, I think CUR continues to become more nimble and robust. Take a few minutes to celebrate all we accomplished together in 2020, setting the stage for further collaboration, connection, and growth in 2021.

We are CUR.

Yours in service,
Lindsay Currie
Executive Officer, CUR
As I prepared to take office in summer 2020, there were considerable challenges to face. The COVID-19 pandemic sent many CUR members into virtual class spaces, some for the first time, and presented new situations such as implementing remote mentoring, conducting high-quality undergraduate research projects at a distance, and providing support to students and mentors facing uncertain academic and career environments. The heartbreaking but necessary decision to cancel the March 2020 National Conference on Undergraduate Research that provides invaluable presentation and networking opportunities for more than 4,000 students each year posed larger questions such as the need to provide professional development opportunities to undergraduate researchers amid the restrictions of the pandemic. CUR responded by holding the popular Posters on the Hill on Twitter on April 21, 2020. This new venue opened the event to a larger interactive audience, setting the stage for many successful virtual events hosted by the CUR National Office. These initiatives highlighted the staff’s dedication to assisting the undergraduate research community as it grappled with new demands on the local, regional, and national levels.

The release of CUR’s 2020-2025 Strategic Plan in June 2020 featured five goal areas that became the organization’s main driving forces during the pandemic. These areas serve the undergraduate research community in the best possible ways, knowing that CUR membership keeps us together. CUR needed to adapt quickly to the "new normal" by continuing, and even increasing, efforts to provide leadership in undergraduate research content through multiple methods: conferences, CUR Conversations, webinars, interactions through the online CUR Community, and more. But this also meant we needed to reach out to diverse communities. The pandemic underscored the inequities faced by students and mentors from different cultural, socioeconomic, geographic, and institutional backgrounds who felt isolated from their peers and others because of technology issues or other circumstances in their home and/or work environments. To respond to this challenge, the dedicated CUR Diversity and Inclusion Committee hosted a Town Hall in June 2020 followed by multiple CUR Conversations during fall 2020. Implicit-bias training programs, culturally sensitive mentoring initiatives, and new ways to promote broader participation and impact in undergraduate research and CUR itself are examples of top priorities in the year ahead. Because of CUR’s firm commitment to inclusive practices, the CUR Executive Board is currently revising the CUR-endorsed definition of undergraduate research to better align with the Strategic Plan’s diversity, equity, and inclusion values.

As the future unfolds, there will be cause for rejoicing when we can reunite in person with our CUR colleagues, but there are some practices implemented during COVID-19 that look promising in a post-pandemic world. Some of the virtual meetings and gatherings are likely to stay, especially those delivered in more streamlined formats that can be easily attended from home. Strategic in-person meetings to advance CUR’s main goals such as communications, collaborations, and partnerships as well as gatherings of more established groups in a virtual environment also may be a part of our bright future. What the COVID-19 pandemic taught us in 2020 is that the heart and soul of CUR resides in its large community and that an agile, nimble, and adaptive National Office helped to keep the family together.

Silvia Ronco
Research Corporation for Science Advancement
CUR President, 2020-21
CUR strives to provide intellectual leadership for the field of undergraduate research, scholarship, and creative inquiry. As a community-focused organization, CUR's continued leadership through its volunteers, whether as a board member, councilor, reviewer, etc, allows for the ongoing success of the community. Our volunteers strive to empower and support the leading voice of undergraduate research and make CUR an inclusive home for all types of undergraduate research and their stakeholders.

Executive Board Members

- **Joanne Altman**, Division Representative, Psychology
- **John Barthell**, General Representative, At-Large
- **Donna Charlevoix**, General Representative, Geosciences
- **Beth Cunningham**, General Representative, Physics and Astronomy
- **Carlos Escoto**, General Representative, Psychology
- **Bridget Gourley**, Division Representative, Chemistry
- **Marilyn Hart**, Division Representative, At-Large
- **Kymberly Harris**, Council Representative, Education
- **Maria Iacullo-Bird**, Council Representative, Arts and Humanities
- **Niharika Nath**, Council Representative, Health Sciences
- **Karen Resendes**, Council Representative, Biology
- **Charlotte Simmons**, Council Representative, Math & Computer Sciences
- **Binod Tiwari**, Council Representative, Engineering
The work displayed throughout this YIR shows the dedication of the community.
Arts + Humanities Faculty Mentor Award
Charles Parrott, Kennesaw State University
Ruben Dupertuis, Trinity University

ChemCUR Outstanding Mentorship Award
Chemistry Division
Genvieve Henry, Susquehanna University
James Phillips, University of Wisconsin - Eau Claire
Aimée Tomlinson, University of North Georgia

Course ReDesign Award
Education Division
H. James McLaughlin, Rollins College

CUR Geosciences UR Mentor Award
Geosciences Division
Jennifer Collins, University of South Florida

CUR-Goldwater Scholars Faculty Mentor Award
Andreen Endowment
Steven J. Miller, Williams College
Math + Computer Sciences Division

Excellence in Mentoring UR Award
Social Sciences Division
Marsha Walton, Rhodes College

CUR Fellows Award
Math + Computer Sciences Division
Michael Dorff, Brigham Young University
Mathematics + Computer Sciences
George C. Shields, Furman University
Chemistry

Faculty Mentor Award
Math + Computer Sciences Division
Carolyn Otto, University of Wisconsin - Eau Claire
Rachael Neilan, Duquesne University
Vinodh Kumar Chellamuthu, Dixie State University

Faculty Career Award
Biology Division
Anne Brown, Virginia Tech
Christopher Lassiter, Roanoke College
Terry Hill, Rhodes College

NCUR Presentation Award
At-Large Division: 13 recipients

Posters on the Hill Presentation Award
Engineering Division: 6 recipients

Research Small Grant
Biology Division: 10 recipients
Health Sciences Division: 4 recipients

Student Travel Award
Biology Division: 3 recipients
Physics + Astronomy Division: 6 recipients
Psychology Division: 12 recipients
Social Sciences Division: 9 recipients

Student Award
Health Sciences Division
Sheridan Sargent (Mentor, Jessica Clark), Salisbury University
Kyoko Hamagata (Mentor, Esther Dupont-Versteegden), University of Kentucky
Jennie Nelson (Mentor, Jason Pilarski), Idaho State University
Ashlee Mitchison (Mentor, Kristen Konkel), Northern Arizona University

Student-Faculty Collaborative Research Award
Education Division
Morgan Daubert (Mentor, Megan Adkins), University of Nebraska - Kearney
Kobi Alcocer (Mentor, JongHun Sung), Idaho State University

Video Scholarship Award
Engineering Division: 12 recipients
SPUR: Scholarship + Practice of Undergraduate Research

Winter 2019
Theme: A Retrospective on Undergraduate Research

Spring 2020
Theme: Undergraduate Research in the Twenty-First Century

Summer 2020
Theme: General

Fall 2020
Theme: General Vignette Edition: Undergraduate Research during Times of Disruption

TOP FIVE SPUR ARTICLES READ
January - November 2020

Jones, winter 2019 SPUR
Introduction, "A Retrospective on Undergraduate Research"

Beer et al., spring 2019 SPUR
A Peer Research Consultant Program: Feasibility and Outcomes

Puniwai-Ganoot et al., summer 2018 SPUR
Mentoring Pacific Islanders for Conservation Careers

Sell et al., spring 2019 SPUR
The Impact of Undergraduate Research on Academic Success

Bhattacharyya et al., spring 2020 SPUR
Course-Based Research: A Vehicle for Broadening Access to Undergraduate Research in the Twenty-First Century

TOTAL READERS 13,000+
TOTAL AUTHORS 127
TOTAL SPUR SUBMISSIONS 191
REVIEWERS 67
TOTAL 2020 ISSUES 4

New Additions

Webinar
So You Are Thinking about Publishing in SPUR

SPUR Cumulative Index
A compiled index of SPUR volumes 1-3, 2017-2020
Diversity, Equity + Inclusion

In the 2020-2025 Strategic Plan, CUR set a goal to develop a culture and community that actively prioritizes diversity, equity, and inclusion. In 2020, the strength, sustainability, and true excellence of undergraduate research was tested by external limitations and brought to the forefront of our community as well as the world. CUR continued to welcome all academic disciplines and institutional types across the US and world as well as ensure that equitable access to programs and resources were addressed effectively for the entire community.

From all of us at CUR’s National Office, we sympathize with everything you’re going through right now. We know the pain of cancelled events, graduations, research presentations, and time cut short with friends, students, mentors, and colleagues. Remember to take care of yourself. CUR is here for you.

I AM CUR. YOU ARE CUR. WE WILL ALWAYS BE CUR.

Connecting the Community

June 2020
Leadership Town-Hall Discussion

Early October 2020
Critical Conversations Two Councilor Trainings

Late October 2020
CUR Conversation Member-only informal discussion facilitated by DEI committee co-chair

December 2020
Released dates and opened abstracts for 2021 Centering Diversity, Equity, and Inclusion in UR + Creative Activity Conference

We condemn the shocking death of Mr. George Floyd at the hands of the Minneapolis police. Our nation mourns this injustice today, and we stand with our African American community and all other groups committed to work for justice and against the institutionalized racism that is at the core of this and similar, all too familiar, acts; too many in our society are denied basic human rights and the rights guaranteed under the US Constitution. CUR reaffirms its commitment to diversity, equity, and inclusion in its work today and urges its partners, colleagues, and others to join in this effort, knowing that it will create a path to a better society and future for all. We remain steadfast in our determination to work against racial injustice in our work and lives.

Janice DeCose (President), Ian Crawford (Immediate Past President), Shira Ross (President-Elect), Lindsey Guere (Executive Officer)
Posters on the Hill (POH)

COVID-19 may have caused the cancellation of in-person activities for POH 2020, but a very exciting Twitter takeover day honoring participants and their research took place on April 21, 2020. The talented undergraduates displayed digital versions of their posters and shared their research and experiences with other students, congressional representatives and staffers, faculty mentors and administrators, disciplinary societies, and the general public. This critical piece of CUR’s advocacy efforts did not go unnoticed.

Including many congressional appointees:
- Senator Jon Tester, Montana
- Representative Bonnie Watson Coleman, New Jersey
- Senator Chris Coons, Delaware

#URExchange
As an opportunity for the community to continue to network, develop, and share research and experiences, CUR developed UR Exchange Twitter takeover on November 12, 2020. A Twitter takeover is when a number of individuals or Twitter handles use a specified hashtag at a specific time and day, allowing that hashtag to be more recognized by others on the platform. During this event, CUR supported students, followers, volunteers, partners, and others to ensure that the power of UR was widely spread and recognized.

OUTREACH HIGHLIGHTS

- Opposed the Executive Order regulating diversity trainings while also supporting anti-racist education, a call for a National Academies study on the influence of systemic racism in academic, and COVID relief dollars to support higher education research programs.
- Participated in Society for Science and the Public’s Twitter chat, “Research at Home,” on September 23, 2020 via invitation.
- CUR EO joined a working group, led by Kavli Civic Science, American Geophysical Union, and the Association of Public and Land-Grant Universities, which began work to catalyze institutional changes toward greater support of research and engagement that make a societal impact.
- CUR EO wrote the introduction to the Advancing Research Impact in Society (ARIS) December 2020 newsletter, which focused on UR.
- House Science, Space, and Technology Committee Chair Eddie Bernice Johnson (D-TX) and Ranking Member Frank Lucas (R-OK) introduced H.R. 144, the Supporting Early-Career Researchers Act. In 2021, EBJ reintroduced the bill that CUR supported last year.
Amid the substantial challenges of this year, this incredible community showed its resilience; commitment to each other and its extended constituencies; and strength in finding entirely new ways to support and promote high-quality mentored undergraduate research, scholarship, and creative inquiry together.

Lindsay Currie | CUR EO
MRL

The Member Resource Library (MRL) was built in 2020 to share internal and external resources that help navigate undergraduate research best practices, educational tips and tricks, and much more.

Discussions
- Free Platform for Virtualizing UR Poster Sessions
- Undergraduate Research Certificate
- Alternative Student Research Ideas

Most Liked Content
- Undergraduate Research Stipends and Financial Aid
- Five-in-Five: 5 Tips to Boost Your Virtual Conference Experience at #VBC2020
- Three-Minute Thesis

Engaged Members
- Janice DeCosmo
- Silvia Ronco
- Charles (BillY) Gunnels

Library Entry Views
- 13,321

NEW USERS
- 1,541

FIRST-TIME POSTERS
- 169

DISCUSSION REPLIES
- 8,755

COMMUNITY ENGAGEMENT

TOTAL COMMUNITIES
- 24
UPDATE ON GRANT NSF-DUE IUSE 16-25354

Integrating and Scaffolding Research into Undergraduate STEM Curricula: Probing Faculty, Student, Disciplinary, and Institutional Pathways to Transformational Change

The CUR Transformations (CURTP) project continued to impact student learning and outcomes at the 24 departments that are involved in the project. Despite the challenges of COVID that moved much of the work online, enormous impacts on curriculum, departmental culture, and the research questions that drive the project occurred in the biology, chemistry, physics, and psychology departments represented.

The project involved a number of activities to assist teams from campuses in advancing transformational changes. These included attendance at the annual fall meeting (held at Rice University in October, 2019), site visits from the consultants who assist the campus teams, newsletters detailing concepts that drive the project goals, webinars on topics such as CURTP Student Survey: A Discussion of Findings and Using Data in Departments and Involving Students in Curricular Transformation: Communicating Change, Inviting Input, and Giving Voice. Departments are now beginning to share outcomes by giving presentations on campuses and at national meetings along with producing publications detailing their work. The PIs on the project are working on developing a Theory of Change Model that outlines the factors that seem to be in place for real change to take hold. Their initial thoughts were published in a monograph on systemic change. Despite challenges, the participants have sustained their energy and commitment to this work and are forging ahead in year five of the project.

ACCOUNTABILITY + SUSTAINABILITY

COMMUNITY GOALS
In July 2020, the CUR Executive Board, along with CUR’s National Office, rolled out the 2020 - 2025 Strategic Plan representing five main goals to achieve over the next five years.

Upgraded Work System
The CUR National Office moved to a cloud-based work system, allowing staff to maintain services virtually. Now, the team is able to communicate efficiently both externally and internally to improve customer service and implementation of new programs for members.

A Different Way to Learn
CUR introduced three virtual institutes in 2020. CUR Framework was an expansion on a successful Virtual Biennial pre-conference workshop, and due to the demand for personalized learning, CUR created two customized virtual institutes. CUR began offering consulting services to individuals preparing proposals for submission to external funding agencies.

Expansion in Offerings
With the continued need for easy accessibility, CUR expanded its print publications to include electronic versions, offering convenience for the community. Along with this expansion, CUR deployed the option for library licensing, allowing an institution to purchase a publication license for the campus to use as a whole at a budget-friendly rate. These two expansions led to over 600 publication purchases for the year.