

THE CHICAGO COUNCIL ON SCIENCE AND TECHNOLOGY

YEAR IN REVIEW 2017 - 2018

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Leadership Message



Welcome to the 2017 - 18 Chicago Council on Science and Technology annual review. We are proud to live in a city with world class institutions and where groundbreaking work takes place. We feature researchers, thinkers and innovators from institutions across Chicagoland, and introduce their work to members of the public from all walks of life.

We would like to give special thanks to Illinois Tool Works Foundation, the John and Jeanne Rowe Foundation, and the Brinson Foundation for their continued financial support. We would also like to thank our newest supporter, the Astellas USA Foundation.

Here at C2ST we have continued to expand the programming offered by trying different formats, venues, and media. Thanks to these efforts, the 2017-2018 fiscal year had the highest number of programs to date. One of our feature programs was a lecture in partnership with the Field Museum to mark our tenth anniversary, the highlights of which are available on our YouTube channel (and on page eight). We also continued our partnership with The Leakey Foundation and participation in different STEM festivals

such as the March for Science Chicago and the Brookfield Zoo's Party for the Planet. You can read about our program highlights on pages four and five.

We have continued to expand our programs for the 2018-2019 fiscal year and one of our new formats includes a collaboration with the Chicago Parks District, as well as a new series, "Science in the Parks." This partnership will include new venues such as Horner Park and the South Shore Cultural Center and will promote programs that are family friendly. We have also revitalized our Science + Cinema initiative and will work in partnership with Columbia College.

Thank you to everyone for helping us to make this a successful year. Your support is vital to science outreach in the Chicagoland area and we look forward to seeing you at our upcoming programs.

Krisztina Eleki, Executive Director C2ST

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Why C2ST Matters to Me



"C2ST serves as a vital resource to our community for perpetuating knowledge about the importance of science and technology in our daily lives. It is easy to take for granted special medications, diagnostic tests, cell phones, alternative sources of energy and more - but decades of research have been devoted to these advancements that allow us to enjoy the fruits of dedicated scientists. Now, we have a responsibility to train the next generation of innovators, and C2ST plays a major role in this noble goal." Mary J.C. Hendrix, President, **Shepherd University**



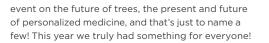


'It has been a pleasure for The Leakey Foundation to work with the Chicago Council on Science and Technology to create programs that educate the public about science. Since we first began co-sponsoring programs with C2ST in 2016, our partnership has grown not only in the number and type of events that we produce, but also in the diversity of audiences we reach. It is wonderful to have found a partner whose mission is aligned with our own and whose staff and leadership is so dedicated. The Leakey Foundation looks forward to co-sponsoring upcoming programs with C2ST as we strive to offer Chicagoans quality educational opportunities that inform and inspire." Sharal Camisa, Executive Director, The Leakey Foundation

"C2ST has been instrumental in advancing the public's understanding of science. The programs are always fun and engaging and meet the needs of those in every age group. I have enjoyed volunteering for C2ST for several years and look forward to helping them spread science knowledge for many more years." Zuri McClelland, Support **Viurtual Lab Manager and Operations Specialist** HappiLabs.org

Program Highlights

Our 10th year as an organization saw our biggest programming year, yet! With 32 public STEM programs, we had something new to learn for even the most well-rounded science connoisseur. In the fall of 2017 our topics ranged from museum collections, to baking with math, to mental health, to the new frontiers of physics. Our spring of 2018 calendar boasted several high school and science fair events, a mishmash of science and comedy, an



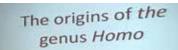
You can find these and many You of our other programs on our Tube YouTube channel: youtube.com/user/C2STvideos



Lance Grande, PhD, of The Field Museum, regaled our audience with stories of daring acquisitions in the exciting world of specimen and artifact wrangling.



Our first program in partnership with the Morton Arboretum focused on the effects of climate change on our nation's trees and how Illinois will be affected.



Bernard Wood

Bernard Wood, Ph.D., and professor at George Washington University surveyed the history of attempts to find the earliest members of the genus Homo.



Our Women in STEM annual event this year focused on unconscious bias. We heard from experts from the academic, industry, and government points of view.



Open House.



With our "New Developments of Mental Health" program we highlighted a topic that has been much in the public mind. The three panelists showed us the up-to-date research on an important and diverse topic.



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Women in STEM annual event



Researchers from Fermilab showed us the smallest of marvels and recorded one of our most popular programs this year. The frontiers of physics never looked so bright!



A panel of industry, clinical and research experts filled us in on the ever-evolving topic of personalized medicine.

Science in a Bottle



Thank you to everyone who supported us at the **C2ST Lagunitas** commentator and all-around funnyman, Aaron Freeman. Social. It was a fun evening filled with laughter, networking, prizes, We had almost 100 of Chicago's greatest science enthusiasts great craft beer and delicious tacos! The evening was emceed by C2ST's Artist in Residence and writer/producer, science

(in our opinion!) mingle and make cross-disciplinary connections at THE TapRoom at Lagunitas Brewing Company.

Science Communication

The 2018 fiscal year was studded with amazing moments of science communication for C2ST. We heard from leaders in Chicago's outreach community on why we do and communicate science and how the arts can help in those efforts. We also expanded our science communication

efforts by reaching out to schools, teaching STEM professionals to communicate through comedy, and presenting an analysis of our findings at an international conference.



In June of 2018 C2ST was invited to speak at career day for the CPS Columbia Explorers Academy in Chicago's the Brighton Park neighborhood. The students were attentive bright, and thoughtful enough to give us thank you cards!



Eugenia Cheng, PhD, used an audience member to demonstrate that math really is "As Easy as Pi."



Bridget Coughlin, PhD, the president and CEO of the Shedd Aquarium, presented about the research going on at the Shedd and the importance of science communication.



José Francisco Salgado, PhD, employed awe-inspiring footage of the Northern Lights and orchestral music to communicate about celestial science



In the spring of 2018 we partnered with Science Riot to teach Chicago STEM professionals to translate their work into a short comedy routine. A group of ten very brave STEMers performed before a paying live audience...twice!

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You, The Scientist

The Importance of Citizen **Science Programs**

April 19, 2018 blog post on c2st.org By Kristen Witte



Citizen Science - no lab coat necessary

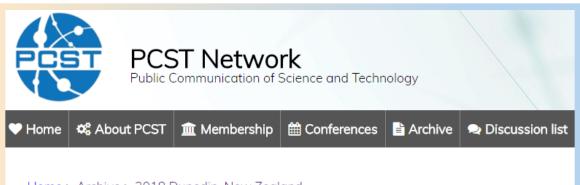
Throughout history, citizens have been critical to moving scientific discovery forward. More recently, scientists enlisted everyday subway travelers to swab the surfaces of the New York City subway system in the hopes of mapping microbial diversity throughout the city. Strikingly, the citizen collected data revealed that this interconnected system of trains has a unique microbial signature at each and every station (Afshinnekoo 2015). The sheer volume of data collected would have been inaccessible without these volunteer citizen scientists.

Not only can citizen scientists reveal unknown stories of the world around us, they can have a substantial impact on social policy. Decades of bird-watching hobbyists collected sufficient data to reveal in 1997 the impact of climate change on a myriad species of birds' nesting behaviors (Crick 1997).

Venues Matter

Using data from the last four years, we were able to show that offering programs in different neighborhoods of Chicago has diversified our audience in terms of age, education level, and ethnicity.

These results were presented by our Board representative, Jessica Turner-Scoff, PhD, at the 2018 international Public Communication of Science and Technology conference in New Zealand.



Home > Archive > 2018 Dunedin, New Zealand

Taking the science stories to the people Reaching diverse audiences through venue changes

The results from that study were used as evidence in the Kyoto Protocol to establish that climate change was already having an effect on wildlife, even if humans had yet to feel it (Cooper 2016).

The democratization of science

While citizen science is by no means new, the open science movement and the emergence of the Internet of Things drove its rejuvenation (Bonney 2009). Indeed, the expansion of open source publishing and data outlets (i.e. eLife, PLOS, Github, etc.) inspired a new wave of science that blurs the authoritative binary of "scientist and non-scientist" (Graybeal 2013; Saraga 2016). In this newly embraced reality, everyone is a scientist regardless of personal, geographical, or socioeconomic background (Garbarino 2016). And that is a really good thing.

Citizen science programs have the potential to reverse the diminution of science by creating inclusive and meaningful experiences where everyone identifies with and has a stake in the scientific enterprise (Garbarino 2016). To reinvigorate science as the forerunner to solving our most pressing social issues, it is our responsibility to intimately involve those who scientific advancement directly benefits - everyone.

- Kristen is a newly-minted Ph.D. with an insatiable curiosity for all things science - the more complex and interconnected the better. While they spent the past 6 years experimenting on the beer-producing, bread-making cells called yeast, they are now pursuing their passion to cultivate enthusiasm for scientific curiosity in the general public. You can find them nerding out at museums, the library, or other C2ST events.

References: check the full blog post on www.c2st.org/blog/

10 Year Celebration!

On February 20, 2018, the Chicago Council on Science and Technology hosted a 10 Year Anniversary celebration, featuring speaker John Rowe, in partnership with the Field Museum and the Magellan Corporation. The evening consisted of a lecture and a dinner for approximately 70 guests.

John Rowe is the Chairman Emeritus of Exelon Corporation and is highly active in the Chicagoland area, serving as the Chairman of the Board of Trustees of the Illinois Holocaust Museum. He has also chaired or been a member of several boards of Chicago institutions and has been recognized as Humanist of the Year. His lecture highlighted the rewards and challenges of investing in scientific and educational institutions and the benefits of investing in communities even when outcomes and impact are uncertain.

C2ST was proud to celebrate our first 10 years, and we look forward to the decade to come. We thank everyone who supported us, joined us at the event, and helped make our anniversary dinner a success!



C2ST cofounders, **Jon Miller** and **Alan Schriesheim** with long-term Field Museum board representative, **Lance Grand**, posing with our guest of honor, **John Rowe**.



Guests enjoyed dinner and celebrating 10 years of C2ST



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A captive audience.

Thank You to Our Speakers

Fall 2017 – Spring 2018 Speakers

Dr. Rakesh Agrawal, Winthrop E. Stone Distinguished Professor, Davidson School of Chemical Engineering, Purdue University

Dr. Suzanne Bell, Professor of Industrial and Organizational Psychology in the College of Science and Health, DePaul University

Dr. Abhinav Bhushan, Assistant Professor of Biomedical Engineering, Illinois Institute of Technology

Dr. Leslie Brandt, Climate Change Specialist, US Forest Service

Dr. Eugenia Cheng, Scientist in Residence at the School of the Art Institute of Chicago

Dr. Michael A. Collins., Professor, Department of Microbiology and Immunology, Loyola University

Dr. Bridget Coughlin, President and CEO, Shedd Aquarium Thomas Day, Managing Partner of Invent2026

Chris Davy, Director for Policy Analysis and Public Diplomacy Bureau of Energy Resources, Department of State

Colonel Greg Duouget (USMC Retired), Nonresident Senior Fellow with the Atlantic Council Millennium Leadership Program, Co-Founder and Managing Partner of Red Duke Strategies, LLC

Cody Eskew, Administration and Special Event Manager, C2ST

Dr. Carole Fauquet, Associate Professor, French National Centre for Scientific Research, Center for Interdisciplinary Nanoscience of Marseille (CINaM)

Dr. Travis Gallo, Postdoctoral Researcher at the Urban Wildlife Institute, Lincoln Park Zoo.

Juanita Garcia, Founder and CEO, BIM for Better.

Dr. Marcelo Garcia., M.T. Geoffrey Yeh Chair in Civil Engineering and Director of the Van Te Chow Hydrosystems Laboratory, University of Illinois of Chicago.

Dr. Anna Grassellino, Scientist and Deputy Head of Technical Division, Fermilab

Dr. Oliver Gutsche, Scientist at Fermilab

Mary Hadley, Sponsorship Director at Makergirl

Eric Henderson, Producer, Science Riot

Betsy Hoover, Partner at Higher Ground Labs and 270 Strategies

Dr. Anna Kaatz, Director of Computational Sciences at the UW-Madison Center for Women's Health Research

Dr. Elizabeth A. Kócs, Director of Programming, Outreach, Research, and Education for the Energy Initiative, Adjunct Assistant Professor of Urban Planning and Policy, Faculty Fellow for the Honors College, University of Illinois at Chicago

Irina Konstantinovsky, Executive Vice President and Chief Human Resources Officer at Horizon Pharma

Matthew Lobdell, Curator and Head of Collections, Morton Arboretum

Nick Lucas, Programs Manager, Advocates for Urban Agriculture

Dr. Jean Claude Manuguerra, Head of the 'Environment and Infectious Risks' research team, Director of Laboratory for Urgent Response to Biological Threats, Institut Pasteur

Jerome McDonnell, Worldview Host, WBEZ

Dr. Elizabeth McNally, MD, Director for the Center for Genetic Medicine, Elizabeth J. Ward Professor of Genetic Medicine, Northwestern University Feinberg School of Medicine

Dori McWhorter, CEO, YWCA Metropolitan Chicago

Dr. Timothy Meyer, Chief Operating Officer, Fermilab Tom Morehouse, Former Assistant Secretary of Defense for

Operational Energy, Plans, and Programs, Executive Director for the National Renewable Energy Laboratory Dr. Timothy Meyer, Chief Operating Officer, Fermilab

Dr. Orson Morrison, Director, DePaul Family and Community Services (FCS), Affiliate Clinical Associate Professor at DePaul University

Dr. Elizabeth Moyer, Associate Professor in the Department of Geophysical Sciences, Director of the Center for Robust Decision-Making on Climate and Energy Policy at the University of Chicago

Dr. Brian Murphy, Associate Professor, Department of Medicinal Chemistry and Pharmacognasy, University of Illinois at Chicago

Dr. T. Celeste Napier, Professor in the Department of Psychiatry at Rush University Medical Center, Director for the Center for Compulsive Behavior and Addiction

Dr. Isaiah Nengo, Associate Director and Research Professor at the Turkana Basin Institute, Stony Brook University

Dr. Brina Nord, Post-Doctoral Researcher, Fermilab

Dr. John Novembre, Professor, Departments of Human Genetics and Ecology & Evolution, University of Chicago

Daniele Procissi, Research Associate Professor of Radiology, Northwestern University Feinberg School of Medicine

Dr. Alexandra Sasha Prokuda, Director of Programs and Engagement, C2ST

Dr. Lisa A. Razzano, CPRP, Associate Professor of Psychiatry and Deputy Director of the Center on Mental health Services Research and Policy, University of Illinois at Chicago, Director for the James Scholar Program, UIC College of Medicine

Dr. Christine Rollinson, Forest Ecologist, The Morton Arboretum

John W. Rowe, Chairman Emeritus, Exelon Corporation

Dr. Paulina Rychenkova, Entrepreneur in Residence, Northwestern INVO

Dr. José Francisco Salgado, Executive Director and Co-Founder of KV 265

James Schwabacher, Chemistry PhD Candidate, Northwestern University

Yue Shan, University of Chicago

Lydia Scott, Director of the Chicago Region Trees Initiative, Manager of Community Trees Program, Morton Arboretum

Dr. Thomas P. Shanley, Chair of the Department of Pediatrics at Ann & Robert H. Lurie children's Hospital of Chicago, Founders' Board Centennial professor and Chairman of the Department of Pediatrics, Northwestern University Feinberg School of Medicine

Kathleen Slingerland, MPH, Scientific and Regulatory Affairs Program Lead, Color Deployment at Mars Wrigley Confectionery

Dr. Matthew Spenko, Associate Professor of Mechanical Engineering, Illinois Institute of Technology

Dr. James Sullivan, Vice President of Discovery, AbbVie

Stephanie Timpone, Engineering Physicist, Fermilab

Sarah Tucker, Director of the Program Management Office and Information Technology for the Family Institute at Northwestern University, President of the ARCS Foundation— Illinois Chapter

Howard A. Tullman, CEO, 1871

Dr. Bernard Wood, University Professor of Human Origins, Director of the Center for the Advanced Study of Human Paleobiology, George Washington University

Dr. Don Wuebbles, Professor of Atmospheric Sciences, University of Illinois

2018 Gala

On May 3, 2018, the Chicago Council on Science and Technology hosted its eighth annual gala, Science in the City, at mHUB. The evening was hosted by C2ST's Artist in Residence, Aaron Freeman, amid a busy manufacturing facility, 3D printers, and a cocktail-style reception.

About 200 attendees celebrated the vibrant local science landscape, and we honored two individuals with an Advancing the Public Understanding of Science & Technology Award by awarding a Lifetime Achievement Award as well as a Young Professional Award. The Lifetime Achievement was awarded to Ann Lurie, a philanthropist and president and treasurer of the Ann and Robert H. Lurie Foundation. The Young Professional award went to Emile Cambry, Jr., founder of entrepreneurship incubator BLUE1647, film producer, and president of the Chicago International Social Change Festival. A huge thank you to our awardees for their incredible support of science and technology outreach in Chicago!

The event included a silent auction, raffle and grab bags. We thank everyone who supported us, joined us at the event, and helped make Science in the City a success!

In-Kind Donations

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| CoreYoga | leni's Ice Crea |

Dennis Bartolomei Salon Dovetail Brewery Eli's Cheesecake Lagunitas Empirical Brewery Escape Artistry Lyric Opera Escape Reality Magellan Gene Siskel Film Center Hyde Park Art Center Palette and Chisel Pinot's Palette Jeni's Ice Cream Pinstripes

Volunteers

Nia Chiamas James Hopkins

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Janet McMillan



Untouchable Tours

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Urban Leaders Sponsorship



Ann Lurie received The 2018 Lifetime Achievement Award for Advancing the Public Understanding of Science and



Emile Cambry Jr. received The 2018 Young Professional Award for Advancing the Public Understanding of Science and Technology.



Guests listened as the awardees are recognized by C2ST.



C2ST Board of Directors and Auxiliary Board.





Thank You For Your Support

The Chicago Council on Science and Technology would like to extend our many thanks to those who provided us with funding that ensured we produced quality and engaging programming to the more. We are grateful for the support from each and Chicagoland area.

The following is a list of of those who made contributions in support of C2ST between July 1, 2017 and June 30, 2018 in the amount of \$10 or every one of our loyal donors.

\$25.000+

Illinois Institute of Technology (In-Kind)

\$20,000 - \$25,000

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Thank You to Our Volunteers

Chicago Council on Science and Technology relies on the generosity of people who donate their time and talents to our organization. We are especially grateful to Katie Ahmed, Nia Chiamas, James Dolan, Sabrina Fesko, Rosanna Granata, Jenna Logsdon, Felecia McCree, Janet McMillan, Sandy Morganstein, Hunter Rogers, Ed Sampedro, Zhinan Wang, and Kristen Witte for volunteering at multiple events over the past year. In addition to working at the events, Fesko serves on an advisory committee, Witte contributes to C2ST's

blog and Wang donated his photography to our organization. Our volunteers have donated over 150 hours to C2ST in the 2017-18 fiscal year.

We would also like to thank our Auxiliary Board members (see page 2) for their time, talents and enthusiasm to our mission.

If you would like to help our organization, we welcome your support. Please contact us at info@c2st.org.

2017-18 Program Stats



Produced 32 programs, consisting of 65 hours of programming



Programs were attended by **4000 people,** either in person or through online streaming



Recordings of our programs and highlight videos were **viewed over 20,000 times** on our YouTube Channel



Hosted 89 experts, both local and international



74 cents of each dollar was spent on delivering quality programming



95% agree that C2ST is a source of valuable and relevant science information

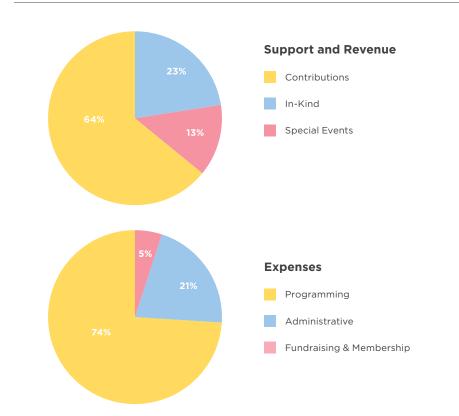
JOIN US IN 2019 – IN-PERSON AND ONLINE!



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C2ST By The Numbers

The following revenue and expense charts are comprised of financial information from our fiscal year between July 1, 2017 and June 30, 2018. For our official financial documents please find our information on www.guidestar.org.



| | 6/30/18 Unrestricted | 6/30/18 Temporarily Restricted | 6/30/18 Total |
|----------------------------------|-------------------------|-----------------------------------|-------------------------|
| Support and Revenue | | | |
| Contributions | \$262,991 | \$20,000 | \$282,991 |
| Special Event | \$59,030 | - | \$59,030 |
| In-Kind | \$99,451 | - | \$99,451 |
| Miscellaneous | \$8 | - | \$8 |
| Net Assets Released | \$11,304 | (\$11,304) | - |
| Total Support and Revenue | \$432,784 | \$8,696 | \$441,480 |
| Expenses | | | |
| Public STEM Programming | \$339,627 | - | \$339,627 |
| Administrative | \$95,160 | - | \$95,160 |
| Fundraising | \$26,425 | - | \$26,425 |
| Total Expenses | \$461,212 | - | \$461,212 |
| | | | |
| Change in Net Assets | (\$28,428) | \$8,696 | (\$19,732) |
| Net Assets at Beginning of Year | \$251,005 | \$12,800 | \$263,805 |
| Net Assets at End of Year | \$222,577 | \$21,496 | \$244,073 |



C2ST is a 501(c)3 nonprofit organization. Contributions are tax-deductible to the extent allowable by law.



Chicago Council on Science and Technology (C2ST) c/o Illinois Institute of Technology 10 W. 35th St. 10th Floor Chicago, IL 60616