



Rendezvous2021

Annual Science Symposium • May 21

Celebrate outstanding science with your CIRES colleagues!

The CIRES Members' Council is pleased to announce the 16th annual CIRES Rendezvous. This institute-wide symposium spotlights the depth, breadth, and quality of the pacesetting science being done at CIRES. We hope to encourage collaborations that might result in new interdisciplinary research, and to facilitate connections among our many innovative scientists, science support staff, and administrative staff. The event includes an entire afternoon devoted to science and poster presentations by CIRES members.

AGENDA

10:00 AM - 11:30 AM **STATE OF THE INSTITUTE/AWARDS** (via [YouTube Link/Live Stream](#))

11:30 AM - 12:30 PM **BREAK/GRAB SOME LUNCH** (on your own)

12:30 PM - 1:00 PM **GETTING TO KNOW TOPIA/PHASING IN** (via [Topia Link](#))

1:00 PM - 4:30 PM **POSTER SESSIONS/CHANCE TO INTERACT WITH COLLEAGUES**

(The entire Poster Session will be in Topia. Use the [Topia Link](#) to participate.)

Find the list of poster abstracts and the schedule of poster talks here:

<https://ciresevents.colorado.edu/rendezvous/posters>

Hosted by



cires-cmc@lists.colorado.edu

From the Director



Dear Colleagues,

Welcome to the annual CIRES Rendezvous! It is hard to believe that we have been working in a largely remote capacity for over a year now. Clearly, this challenge hasn't slowed us down: FY20 funding was \$105.9M, an all-time high for CIRES, and our research productivity remained high. You will hear about an incredible diversity of research accomplishments during Rendezvous this year: CIRES scientists are presenting on ocean-sea ice-atmospheric forecasting improvements in the Arctic; tense water management issues in the Dolores River watershed; subsidence in Lagos, Nigeria; and innovations in understanding aerosol formation and various air pollutants.

You'll also see updates from MOSAiC, which provided new knowledge on Arctic sea ice, and impressive investigations into the atmosphere during COVID. CIRES scientists and colleagues sought to understand more about the atmosphere during the pandemic's shutdowns, and learned a great deal.

I'm grateful for your efforts. You've shown that CIRES is nimble and able to respond quickly to the urgent environmental science questions of the day.

While we are a research institute full of world-class scientists and many leaders in our fields, I am very proud of our students, as well. CIRES just recognized seven graduate students with research awards to support their impressive work. These and other early-career researchers will no doubt ensure our legacy continues and that CIRES will remain a world leader in environmental research.

I would like to express my most sincere gratitude to and respect for each of you for your unique, shared, and critical contributions to the success of CIRES. This year has presented challenges unlike any we have seen before. But once again, the quality of our research, its importance to society, and the commitment and talent of our people who conduct and support that research make CIRES stand out. So thank you all for your efforts. Thank you for all we have collectively achieved in the past year, and most importantly: Thank you for all for your commitments to the successful execution of our mission. The world is a better place because of CIRES and because of you!

Sincerely,

A handwritten signature in blue ink, appearing to read 'Waleed Abdalati', enclosed in a light blue rectangular box.

Waleed Abdalati
CIRES Director

5 Years of Service

Eric Adamson
Seth Arens
Athanasios Boudouridis
Mary Ellen Byers
Susan Cobb
Matthew Coggon
Finn Dahl
Candida Dewes
Hui Ding
Michael Erickson
Matthew Fisher
Dominic Fuller-Rowell
Audrey Gaudel
Guoqing Ge
Benjamin Green
Anne Handschy
Gaelle Hervieux
Kristopher Karnauskas
Michael Laxer
Erin LeFevre
Wen Wei Liao
Kathryn McKain
Julia McMillen
Paul Moth
John Mund
Matthew Price
Erin Reeves
Richard Saltus
Kenneth Schuldt
Daniel Seaton
Sang-Ik Shin
Laura Slivinski
Lawrence Spencer
Diana Stovern
Kristy Tiampo
Daniel Wilkinson
Christina Williamson
Li Zhang
Mistia Zuckerman

10 Years

Pedro Campuzano-Jost
Daniel Crumly
Patrick Cullis
Douglas Day
Raina Gough
Shilpi Gupta
Emiel Hall
Jessica Henley
Eric James
Larisa Krista
Matthew Love
George Millward
William Moninger
Donald Murray
Timothy Newberger
Dusan Odstrcil
Gopakumar Padmanabhan
Jocelyn Turnbull
Adam Woods
Takanobu Yamaguchi

15 Years

Rainer Bleck
Xinzhaoh Chu
Marc Cloninger
Molly Crotwell
Curt de Koning
Irina Djalalova
Ratina Dodani
Barry Eakins
Mariangel Fedrizzi
Fred Fehsenfeld
Noah Fierer
Andrew Jacobson
Justin Mabie
Carrie Morrill
Jeffrey Peischl
Gabrielle Petron
Naomi Rempel
Sonja Wolter

20 Years

Elizabeth Cassano
John Cassano
Richard Grubb
Peter Molnar
Robert Pincus
Betsy Sheffield
William R. Travis

25 Years

Florence Fetterer
Fred Moore
Christoph Senff

30 Years

Paul Johnston
Tim Fuller-Rowell

35 Years

Don "Hoop" Hooper
Duane Kitzis

40 Years

Robert E. Sievers

PROMOTIONS

Associate Scientist II

Matthew Gentry
Christian Herrera

Research Scientist II

Adam Ahern
Christopher Amante
Alison Banwell
Ilann Bourgeois
Kai-Lan Chang
Yaosheng Chen
Jake Gristey
Meng Li
Courtney Peck
Matthew Rossi
Hannah Vagasky
Isaac Vimont

Associate Scientist III

Michael Brandt
Ratina Dodani
William Diment
Thomas Falkowski
Matthew Fisher
Jessica Henley
Gaelle Hervieux
Zhuxiao Li
Laura Melling
Paul Moth
Jay Patel
Erin Reeves
Molly Smith
Adam Woods
Mistia Zuckerman

Research Scientist III

Hazel Bain
Laura Bianco
Matthew Druckenmiller
Benet Duncan
Jason English
Mariusz Pagowski

Senior Associate Scientist

Andrew Barrett
Kimberly Baugh
Nathan Campbell
Kelly Carignan
Finn Dahl
Kathryn Heightley
Erin LeFevre
Evan McQuinn
Elizabeth Ossowski
William Rowland
Aaron Sweeney
Ken Tanaka

Senior Research Scientist

Barry Eakins
Maria Capotondi
Michael Hobbins
Siri Jodha Singh Khalsa
Manoj Nair

Administrative Associate III

Anna Fudale
LuAnn Line
Rebecca Stossmeister

Senior Administrative Associate

Kathleen Bogan
Lone Hansen
Karin Vergoth

AWARDS



CIRES scientists are often integral to NOAA award-winning science and engineering teams but cannot be given certain federal awards, such as the prestigious Department of Commerce Gold, Silver, and Bronze Medals. The CIRES Director recognizes the extraordinary achievements of CIRES scientists working in partnership with federal colleagues.

CIRES Gold Medals

Philip Pegion

For development and accelerated implementation of NOAA's flagship Global Forecast System GFSv15.1, a foundation for FV3 based Unified Forecast System.

Geoff Dutton, Lei Hu, J. David Nance, Debra Mondeel, Fred Moore, Ben R. Miller, Eric Ray, Carolina Siso

For discovering the recent production and release of CFC-11, indicating a major violation of the Montreal Protocol.

MORE AWARDS ON NEXT PAGE

AWARDS

CIRES Gold Medals (continued)

Finn Dahl, Barry Eakins, Erin LeFevre, Elliot Lim, Brian Meyer, Rick Saltus

For successful orchestration of seafloor mapping & data science initiatives imperative to fulfill U.S. Extended Continental Shelf (ECS) project goals.

Juan V. Rodriguez, William Rowland, Margaret Tilton

For innovative engineering and science approach that avoided \$28M in repair cost to deliver NOAA instruments to Metop-C to improve weather forecast.

CIRES Gold Medal SWPC Group Plaque

The CIRES SWPC Team including Hazel Bain, Ratina Dodani, Mariangel Fedrizzi, Dominic Fuller-Rowell, Kiley Gray, Jeffrey Johnson, Ben Rowells

For the planning, development, and implementation of a brand new space weather forecast service to support international aviation requirements.

CIRES Silver Medal

Gilbert P. Compo, Don “Hoop” Hooper, Chesley McColl, Prashant D. Sardeshmukh, Laura C. Slivinski, Catherine Smith, Lawrence J. Spencer

For creating a 200-year Historic Reanalysis dataset of global weather and extremes from only surface pressure and sea surface temperature observations.

CIRES Bronze Medals

Matthew Martinsen

For eliminating any potential Mauna Loa Observatory sources of CFC-11 and other trace gases to ensure integrity of long-term data records.

Adam Ahern, Ravan Ahmadv, Kenneth Aikin, Ilann Bourgeois, Wyatt Brown, Pedro Campuzano-Jost, Matthew Coggon, Douglas A. Day, Zachary Decker, Hongyu Guo, Jose-Luis Jimenez, Joseph Katich, Aaron Lamplugh, Macy Morgan, Benjamin Nault, J. Andrew Neuman, Demetrios Pagonis, Jeff Peischl, Derek Price, Pamela Rickly, Michael A. Robinson, Mindy Schueneman, Donna Sueper, Carsten Warneke, Ann Weickmann, Caroline Womack, Michael Zucker

For outstanding execution of the FIREX-AQ mission, a joint venture with NASA to improve understanding of air quality and climate impacts of fires.

Terence Bullett, Justin Mabie, Brian Meyer

For securely relocating environmental records from Colorado to North Carolina, preserving and ensuring accessibility to the data and reducing costs.

CIRES Administrator Plaques

Dave Allured, Irina Djalalova

For implementing and upgrading NOAA's Air Quality Forecasting Capability for improving the lives of Americans and saving billions of dollars per year.

Adam Ahern, Kenneth Aikin, Megan Bela, Ilann Bourgeois, Matthew Coggon, Zachary Decker, Karl Froyd, Maxwell Holloway, Joseph Katich, Aaron Lamplugh, Brian McDonald, Stuart McKeen, Macy Morgan, J. Andrew Neuman, Jeff Peischl, Catherine Rasco, Pamela Rickly, Michael A. Robinson, Kyra Slovacek, Troy Thornberry, Richard Tisinai, Nicholas L. Wagner, Carsten Warneke, Laurel Watts, Ann Weickmann, Christina J. Williamson, Caroline Womack, Michael Zucker

For the planning and conduct of the largest interdisciplinary research project ever to study wildfire smoke composition, chemistry, and evolution.

MORE AWARDS ON NEXT PAGE

AWARDS

CIRES Administrator Plaques (continued)

**Christian Bethge, Athanasios Boudouridis,
Samuel Califf, Stefan Codrescu,
Jonathan Darnel, Kevin Hallock,
J. Marcus Hughes, Fadil Inceoglu, Brian Kress,
Larisa Krista, Anna Liao, Paul Loto'aniu,
Janet Machol, Courtney Peck,
Juan V. Rodriguez, William Rowland,
Daniel Seaton, Jason Shapiro, Margaret Tilton,
Pamela Wyatt, Erika Zetterlund**

For achieving a fully operational GOES-R constellation, culminating a decades-long effort.

Technology Transfer Plaques

**Richard McLaughlin, Hagen Telg,
Troy Thornberry, Laurel Watts**

For creating a unique instrument to measure atmospheric particles and helping a small company successfully commercialize it to yield \$1M+ in sales.

NCEI Awards

NCEI-CO ARCHIVE STORAGE SOLUTION PROJECT

**Charles Anderson, Veronica Martinez,
William Rowland, Carrie Wall Bell, Pamela Wyatt**

The security of NCEI archival storage is of critical importance to NOAA and our global network of external users. This group of individuals is being recognized for their outstanding service to ensure the NCEI archive remains reliable and accessible. The team

worked together under strict time constraints to secure additional archival storage space at NCEI-Colorado. This effort required determining current and future archive requirements, identifying and evaluating various alternatives, effectively communicating the group's findings to NCEI leadership, and implementing the preferred solution. The collaborative approach taken by these individuals serves as a model for other cross-office discussions and reflects the spirit of OneNCEI.

NCEI-CO STEWARDSHIP OPERATIONS AND MAINTENANCE PROJECT

**Dave Neufeld, Erin Reeves, Ken Tanaka,
Carrie Wall Bell, Georgie Zelenak**

This collaboration award is to recognize the joint ITSD-CCOG effort to address NCEI's CO stewardship operations and maintenance challenges. This group began an effort a year ago to address data archive and delivery issues with the NCEI-CO infrastructure, and since then they have made real and measurable improvements as evidenced by turning items in the NCEI Operations Report 'green'. To achieve these results, NCEI employees worked collaboratively and strengthened the working relationship between ITSD and CCOG. Everyone exhibited the deepest commitment to the NCEI mission and a OneNCEI approach that has resulted in success.

NCEI-NC PARALLELS MIGRATION

Ed Gille

NCEI has been running a significant portion of its IT server hosting platform on an old virtualization technology called Parallels Virtuozzo, commonly called "Parallels". The platform stopped receiving security and maintenance upgrades from the provider several years ago, and NCEI adopted at the time a replacement platform called Ovirt. In an effort that has spanned the past four years, NCEI personnel from all divisions and centers have worked together towards the migration of the platform from Parallels to Ovirt.

AWARDS

CIRES Outstanding Performance Awards: Science

CRITERIA 1: Development of new scientific, engineering and/or software tools or models directly resulting in novel research valuable to CIRES and the wider scientific community.

CRITERIA 2: Uncommon initiative, resourcefulness, and/or scientific creativity conducting research with potential to expand or change the direction of a particular field or discipline.

CRITERIA 3: Participation in collaborative and/or multidisciplinary research that engages a broader cross-section than the nominee's typical scientific or engineering community.

The OPA committee has selected these winners in the Science category:

Patrick Alken

NCEI

Recognized for successfully leading the development, validation and release of the 13th International Geomagnetic Reference Field, a widely used reference geomagnetic model developed by a collaboration of 15 teams representing over 30 international institutes, and for developing new methods to infer geomagnetic main field models from various datasets, including satellite platform magnetometer data. Patrick is a co-chair of the International Association of Geomagnetism and Aeronomy Working Group V-MOD: Geomagnetic Field Modeling. Patrick's nomination praised his scientific expertise, creativity, leadership skills and multidisciplinary collaborations.

Pedro Campuzano Jost, Douglas Day, Demetrios Pagonis, Hongyu Guo, Donna Sueper (with citations for past CIRES employees Benjamin Nault, Jason Schroder, and David Thomson)

CIRES/CU AEROSOL MASS SPECTROMETRY TEAM, JIMENEZ GROUP

Over the past ten years, the team has systematically developed and engineered the world's most comprehensive and high performance flight instrument for quantitatively measuring aerosol chemical composition. They are recognized as talented, hard-working, effective and dedicated collaborators. The measurements from different aircraft campaigns provide new insights into the distribution and composition of aerosols, their sources and transformation and support model evaluations and improvements. The CIRES AMS group was part of the larger team recognized by the NASA Group Achievement Award for the SEAC4RS, KORUS-AQ, ATom, and FIREX-AQ missions (NASA, 2021) and the NOAA Bronze Medal for outstanding execution of the FIREX-AQ mission.

Ravan Ahmadov, Eric James, Stuart McKeen

GSL/CSL

Recognized for leading a multi-year effort to implement a biomass burning module in an existing hourly Numerical Weather Prediction system (NWP). Based on satellite observations of fire location and intensity, the High-Resolution Rapid Refresh (HRRR) now predicts the movement of smoke in three dimensions across the U.S. over 48 hours, simulating how weather will impact smoke movement and concentrations, and also how smoke will affect visibility, temperature and wind. This model was implemented into NOAA National Weather Service (NWS) operations on December 2, 2020, which makes the NWS the first of the main large operational centers in the world to effectively use aerosols from biomass burning in their highest resolution NWP model.

Matthew Coggon

CSL

Recognized for changing our understanding of urban and wildfire ozone formation and resulting air quality impacts by pioneering experimental and numerical chemical modeling work on biomass burning and volatile chemical product emissions. His research is critical to CIRES' and our nation's need to understand and manage the air quality in major urban centers and wildfire-impacted areas. Matthew was recently awarded an EPA Science to Achieve Results grant to improve our understanding of the role of volatile chemical products on ambient air quality. In addition to his technical work, Matthew is one of the founders of "Science on Tap" and he regularly mentors students in science and engineering. Recently, Matthew co-founded a study group within NOAA CSL to examine issues of diversity and inclusion.

AWARDS

CIRES Outstanding Performance Awards: Service

CRITERIA 1: Implementation of a creative or innovative idea, device, process, or system that aids in research, teaching, or outreach at CIRES.

CRITERIA 2: Development or improvement of a service that increases the efficiency, quality, or visibility of scientific research or outreach.

CRITERIA 3: Providing a service that promotes or inspires excellence and dedication to research performed at CIRES or in the wider community.

The OPA committee has selected these winners in the Service category:

Alicia Christensen, Rebecca Batchelor, Christine Okochi, Amanda Morton, Annie Fudale, Meghan Henderson

EDUCATION & OUTREACH, CIRES FINANCE

The team is recognized for their remarkable work to support the Research Experience for Community College Students (RECCS) program. The program provides paid internships for students to explore environmental or geosciences and to gain the confidence to transition to a four-year program in the STEM disciplines. Over the past seven years the RECCS program has matched 76 community college students from across Colorado with researchers from CIRES, NOAA, INSTAAR and the USGS. Students from every cohort say that the RECCS experience and work with their mentors has changed their life and career trajectory in a positive way. RECCS mentors attest to the exceptional professionalism of the RECCS team and the utmost care with which they approach each individual student. For 2020, the RECCS team developed a completely new RECCS program using a virtual format (RECCS Lite). Pointing to the success of the RECCS program, NSF now funds numerous Research Experience for Undergraduate programs that recruit students from community colleges.

Kathleen Bogan, Jon Griffith, Lynne Harden, Lianna Evans Nixon, Matthew Adam Price, Matthew D. Shupe, Katherine Lucille Weeman

EDUCATION & OUTREACH,
CIRES COMMUNICATIONS

The MOSAiC education, outreach and communication team is recognized for their creative, impactful and extensive work in support of the year-long Arctic research expedition with 500 scientists from 20 nations including 33 researchers from CIRES. The MOSAiC content reached at least tens of thousands of people around the world through curricula, social media, news media, planetarium shows, Google expeditions and other vehicles driven by this CIRES team. Thanks to the extraordinary efforts of the entire MOSAiC Expedition team at CIRES, the educational impact of this expedition will long outlive the expedition itself. Their stories continue to attract new

educators and classrooms on a weekly basis, inspiring a new generation of Arctic advocates. By summer 2021, there will be three planetarium shows available to audiences around the world!

John Mund

GML

Recognized for his exceptional knowledge and talent as a database manager, programmer and IT specialist and as an exceptional team member for his motivation, dedication, and unconditional support for all people and all projects that ask for his help. John has developed excellent tools to streamline data management, quality control, sharing and archiving for GML and international collaborators. Recently John provided excellent support to revising the World Meteorological Organization Global Atmosphere Watch CO₂ calibration scale. John has volunteered and taught Python courses in GML. He regularly supports or mentors early career colleagues, interns and students. John has also engaged in innovative efforts to develop cloud computing capabilities for GML.

Catherine Rasco, Megan Melamed, Chelsea Thompson

CSL

Recognized for successfully orchestrating the adoption and implementation of the ESRI web-based presentation service for the NOAA CSL 5-year laboratory review and for the redesign of the CSL website. The team succeeded in educating and coaching more than 50 scientists with a new web-based presentation landscape to summarize each group's scientific activities from 2015 to 2020. (All this was done of course while working remotely). The nominees deserve substantial credit for the CSL review success and the high regard the review received from the review panel and our OAR and NOAA Line Office colleagues. The inclusiveness of this entire effort led by the nominees has also had the benefit of having a large fraction of the CIRES and NOAA workforce at CSL feel a sense of ownership and pride in their research and mission.

AWARDS

George C. and Joan A. Reid Award

Made possible by the Reids' generous contribution to an endowed scholarship fund, the Reid Award celebrates intellectual contributions to CIRES and leadership within the broader University of Colorado Boulder community. It is awarded every two years.

George Colvin Reid (1929–2011) was an eminent atmospheric scientist who pioneered research into critical environmental issues such as stratospheric ozone depletion and global climate change. Always a progressive thinker, he was one of the initial four fellows who founded the Cooperative Institute for Research in Environmental Sciences. Joan A. Reid (1932–2015) was one of the first women to enroll in the University of Colorado School of Law. She spent most of her career with the nonprofit Rocky Mountain Mineral Law Foundation, and was a frequent community volunteer, an avid outdoorsperson, and with her husband George, an inveterate world traveler.

2021 Recipient of the George C. and Joan A. Reid Scholarship: Jackson Jandreau

"Jackson has great passion for sharing his knowledge with the public, younger generations, and peers, and he is humble to learn from everyone. While in McMurdo, he spent much time in the lab learning lidar principles, laser technologies, and other lidar skills. While his 2020-2021 McMurdo deployment was cancelled due to the pandemic, he personally organized multiple Q&A Skype sessions to be conducted in Antarctica for both the Science Museum Oklahoma summer camps and middle/high school science classes to educate them about the life of a field scientist. These will still occur during the winter of his next deployment, and he is planning other similar sessions. In addition to his love for sharing his work, both his oral and written communication skills are superb, making him a valuable asset for our group's outreach and service."

—Dr. Xinzhaoh Chu





Rendezvous is organized each year by the CIRCUS Members Council (CMC). We represent the interests of all CIRCUS members with respect to CIRCUS

governance, scientific direction, and the day-to-day workplace environment. As a representative group made up of CIRCUS members, we are tasked with the following:

- Representing the concerns of the CIRCUS Membership by bringing issues to the attention of the CIRCUS administration;
- Working to improve the lines of communication within and between all CIRCUS units;

- Providing a means of Member participation in CIRCUS governance and a voice on committees and working groups which form the core of that governance;
- Contributing to the process which determines CIRCUS' research direction and areas of research;
- Fostering a positive workplace environment and Members' connection with CIRCUS by facilitating Members' understanding of their roles within CIRCUS.

The CIRCUS Members Council provides the opportunity for service as well as career enhancement, benefiting representatives and constituents alike.

<https://cires.colorado.edu/about/institutional-programs/cires-members-council>

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The CMC wishes to thank Eric for his leadership as Chair during the past year.



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Rendezvous2021

Welcome to the Virtual Rendezvous via Topia!

Topia is a world the Rendezvous committee created just for this year's Poster session. It is a more personal way to interact online than Zoom or Google Meet. Topia feels more like 'old times'--like bumping into someone you haven't seen in a while at the water cooler.

Get ready

- **Try out** Topia before Rendezvous here:
 - Room 1 (on the right) - <https://topia.io/cires-rendezvous-2021>
 - Room 2 (on the left) - <https://topia.io/cires-rendezvous-2021-2>
- **Watch** our five minute Topia help video: <https://youtu.be/lbmFEb6rbeg>
- **Check out TWO Topia maps for guidance.** The first one is an overview map of the 2 Rooms and the second is a detailed map of the layout including posters:

Overview map:

https://ciresevents.colorado.edu/rendezvous/images/Rendezvous2021TopiaMap_Detailed.pdf

Detailed map:

https://ciresevents.colorado.edu/rendezvous/images/CIRESRendezvousTopia_LocationMap.pdf

- **No time?** Access a practice session from 12:30 to 1 pm on Friday, May 21. The Poster session begins at 1 pm! (CMC Shepherds will be available to guide you). If you do the practice session, stay logged in for posters at 1pm. See the Rendezvous webpage for your phasing in time.

Get set

What you'll need to join the Poster Session via Topia:

Must have:

- Headphones or earbuds
- Webcam
- A list of posters you'd like to visit -- find the list here: <https://ciresevents.colorado.edu/rendezvous/posters>
- Google Chrome (Firefox and other browsers will not work)

Optional:

- Printed maps of the Topia Room details
- Your drink of choice (highly recommended)

- Dancing shoes
- Set time for a meetup with your group(s) at the Bar, Lounge, Early Career Lounge, or Disco (various Bars and Lounges have been numbered in Topia to allow planning at a specific location)

Go!

How to enter Topia for the Rendezvous 2021 Poster Session:

- Go to <https://topia.io/cires-rendezvous-2021>
- Enter your full name or nickname (the name everyone in the Topia world will see). If you are one of many Matts, perhaps use your last name!
- Check and agree to both boxes:
 - I am 16 years and older
 - Agree to the Terms and Conditions
- Click Enter

Now what?

Start here:

When you enter Topia, you will see an Information Booth. A person icon with your name below it should appear. You will initially start in Room 1 (on the right). There are two Rooms, each with a different set of posters. Refer to the maps for what is in each room or find a CMC Shepherd at the Information Booth for help.

- **Moving in Topia**

Using your mouse, click on your destination and your icon will start walking there. **When you see footprints above or around your icon, this allows you to walk.** *The mouse is a good way to get long distances at once and helps you move in open spaces.*

Using your arrow keys -Up, Down, Right, Left. *The arrow keys are a good way to move close to a poster. (if you use your mouse, you may open the poster instead of moving toward it.)*

The **Yellow Brick Road** and signage will lead you to anywhere you want to go, including the doorway to the other room. But you don't have to follow the pathways exclusively -- you can move with mouse and arrow keys in any direction.

- **To Zoom in or out of the worlds, use**

Control - (Minus): Zooms you out so you can see the entire world

Control + (Plus): Zooms in so you can see things closer

- **You can chat with your colleagues and talk about their posters.**

As you approach other people, you will see and hear them, and their videos will appear. As you move away, their videos will fade.

Please Note: Gatherings of under 10 are ideal for group conversations in Topia. More than about 10 may not allow you to hear or talk with each other. If a poster has 10+ people, please move to another poster you would like to see and revisit that poster later when it is less crowded.

- **How do I look more closely at someone's poster?**

- Simply hover over the poster and click on it. This will open additional information, including the abstract, links and the poster PDF.

If you are interested in a particular poster, see the schedule below of when each researcher will be available to talk about their poster:

<https://ciresevents.colorado.edu/rendezvous/posters>

Need directions? Signs will direct you to the different posters. Or, watch for 'CMC Shepherds' to help guide you through Topia. They will have their names and "CMC Shepherd" under their Icon.

Take a break!

Boogie at the Disco Ball to blow off some steam. Plan a group meeting at one of the many Happy Hour Bars or Lounges or at the Early Career Lounge. Watch Waleed singing at last year's Seasonal Celebration. Or just wander Topia and look at all the different posters.

How do I get from Room 1 to Room 2 and back and forth?

You initially will enter Room 1. To get to Room 2, travel to the left, using the pathway, and look for the large door. Once at the door, click anywhere in the door, you will have an option to 'Travel' to Room 2. You can go back and forth between the rooms as many times as you would like.

Stop here and give Topia a try.
However, if you need more information, please see the section below

FAQs and Troubleshooting Topia:

What if I can't enter Topia at all?

You must use Google Chrome.

First, check your own internet connection

Log out and log back in to Topia.

How do I find my other colleagues?

Take a look at the Topia maps before the event on May 21 and plan a meeting time at the Lounge Areas, Bars, firepit, Early Career Lounge or at a particular poster.

How can I get to a different section of the world quickly?

Rendezvous is divided into two rooms, Room 1 (<https://topia.io/cires-rendezvous-2021>) and Room 2 (<https://topia.io/cires-rendezvous-2021-2>). You can change from one room to another by changing the URL. Once you are in a specific room, however, you cannot “teleport” to a different spot. You must walk your character there. This takes time, but it also allows for more spontaneous interactions as you walk past your coworkers and other Rendezvous participants.

Would you like to sit down, dance or send some love?

Hover over your icon and once you see the hand, you can change your icon to either sitting, dancing or a heart. Once you start walking again, these options disappear.

Can I send a message in Topia?

When you connect via video with someone else in Topia, you will see a message icon inside their video feed.

Click on the message icon, which will open the message interface.

Enter your message and click Send.

Look on the left hand side of Topia and find a mail envelope. If it is red, you have a message. Click on this to open and respond.

If I’m assigned to be by my poster at a certain time, but want to go look at other posters during that time, what should I do?

We would prefer you stay at your poster during your assigned time as we are giving everyone time at their posters and time to walk around. Abstracts, posters and associated media will be available on-line so feel free to contact the author later to learn more.

How do I get help if I can’t find where I’m going?

First try using control - or control + to zoom in and out of the rooms. Also watch for ‘CMC Shepherds’ who will be walking around helping out. Their icon name will include ‘CMC Shepherd’. We are here to help so please reach out. We want this to be a great Topia experience for you! See below for general help.

How do I get general help about Topia?

A Help Desk and Zoom link will be open and available from 12:30pm to 4:30pm on May 21:

- Zoom Help Room
 - <https://cuboulder.zoom.us/j/97955500729>
 - (669) 900-6833, Meeting ID: 979 5550 0729
- Email ciresithelp@colorado.edu

EC11EC12EC13EC14EC16EC17EC18EC19EC20

Environmental Chemistry (EC-19)

EC1EC2EC3EC4EC5EC6EC7EC8EC9EC10

EOMF10EOMF11EOMF12EOMF13EOMF14EOMF15EOMF16EOMF17EOMF18

Environmental Observations, Modeling and Forecasting (EOMF-18)

EOMF1EOMF2EOMF3EOMF4EOMF5EOMF6EOMF7EOMF8EOMF9

Cryospheric & Polar Processes (CPP-13)

CPP14CPP7CPP13CPP6CPP12CPP5CPP11CPP4CPP10CPP3CPP9CPP2CPP8

Lounges

123456

Bars

A B C D

Education & Outreach (EO-8)

EO2EO3EO4EO5EO6EO7EO8EO9

Solid Earth Sciences (SES-5)

SES1SES2SES3SES4SES5

Room 2 Landing Spot Map

Doorway

Room 1 Landing Spot Map

Western Water Assessment (WWA-7)

WWA1WWA2WWA3WWA4WWA5WWA6WWA7

Weather and Climate Dynamics (WCD-13)

WCD2WCD3WCD4WCD5WCD7WCD8WCD9WCD10WCD11WCD12WCD13WCD15WCD16

Lounges

789

Early Career Lounges

101112131415161718

Ecosystem Science (ES-7)

ES01ES03ES04ES05ES06ES07ES08

Disco & Lounges

1920212223

Administration (ADM-3)

ADM1ADM2ADM3

 = map locations