# Collaboration Update

# Spokespeople & Executive Team

## John Carlstrom

CMB-S4

# Your Executive Team



Julian Borrill & John Carlstrom
Co-spokespeople



Abby Crites, Chair
Pubs & Speakers
Committee



John Ruh, Chair
Membership
Committee



Sara Simon, Chair
EDI Committee



Kevin Huffenberger  & Joel Myers
Science Council Co-chairs



Jeff McMahon & Abby Vieregg
Technical Council Co-chairs

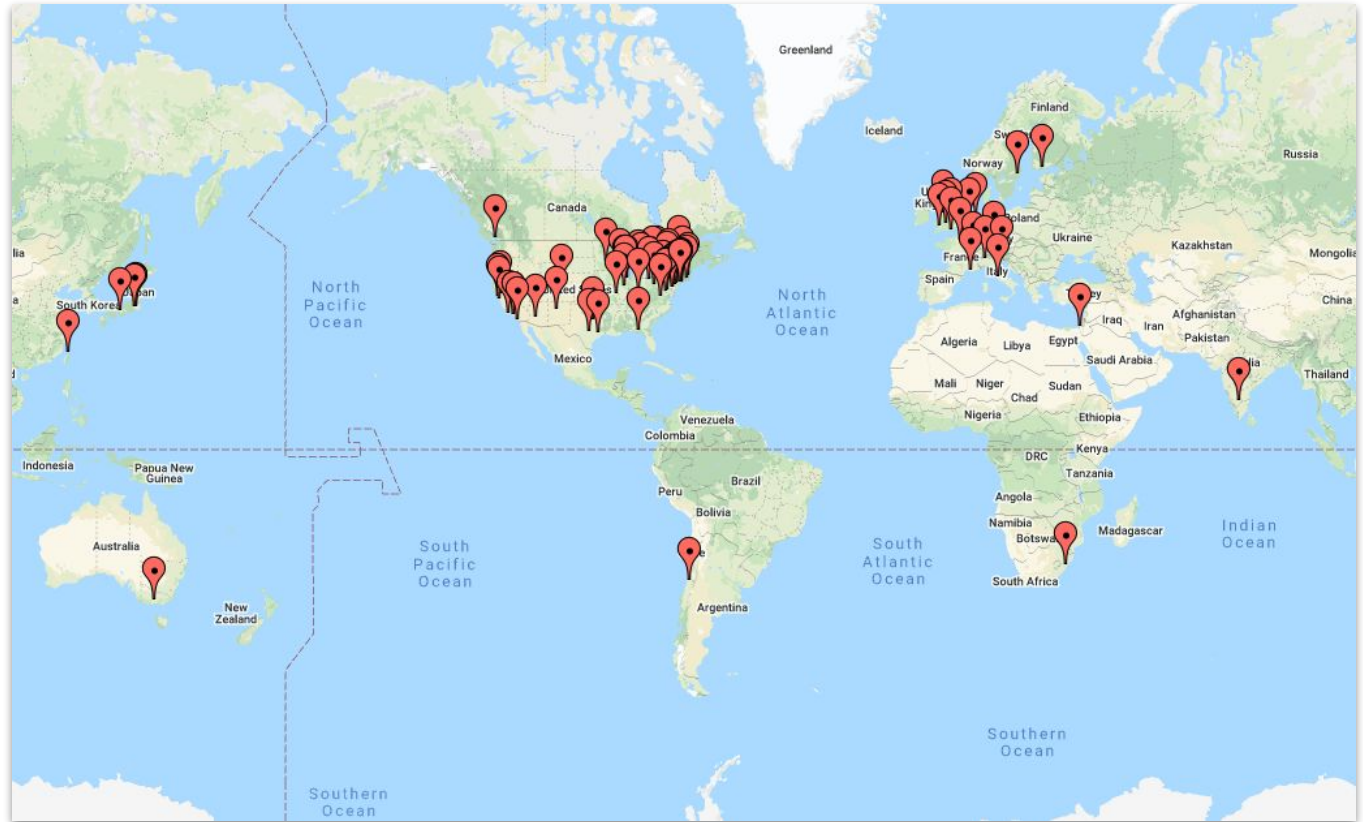All of the elected ET member's terms are up for renewal in 2022*.

**Please consider serving and running for election!**

*subject to Bylaw updates

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# Growing Collaboration

335 Members
 - 288 Collaboration
 -  96 Project

17 countries

27 US States

105 Institutions

# Updated Collaboration Organization*

Technical working groups now incorporated into the Project, as foreseen in the Bylaws.

New Equity, Diversity & Inclusion Cmt

124 collaboration roles held by 82 individuals (see governance web pages)

Governing Board elections were held; committee members appointed to new terms.

Many thanks to those who served, are serving, those that have run for election, and the many that volunteered for cmts!

Get involved!
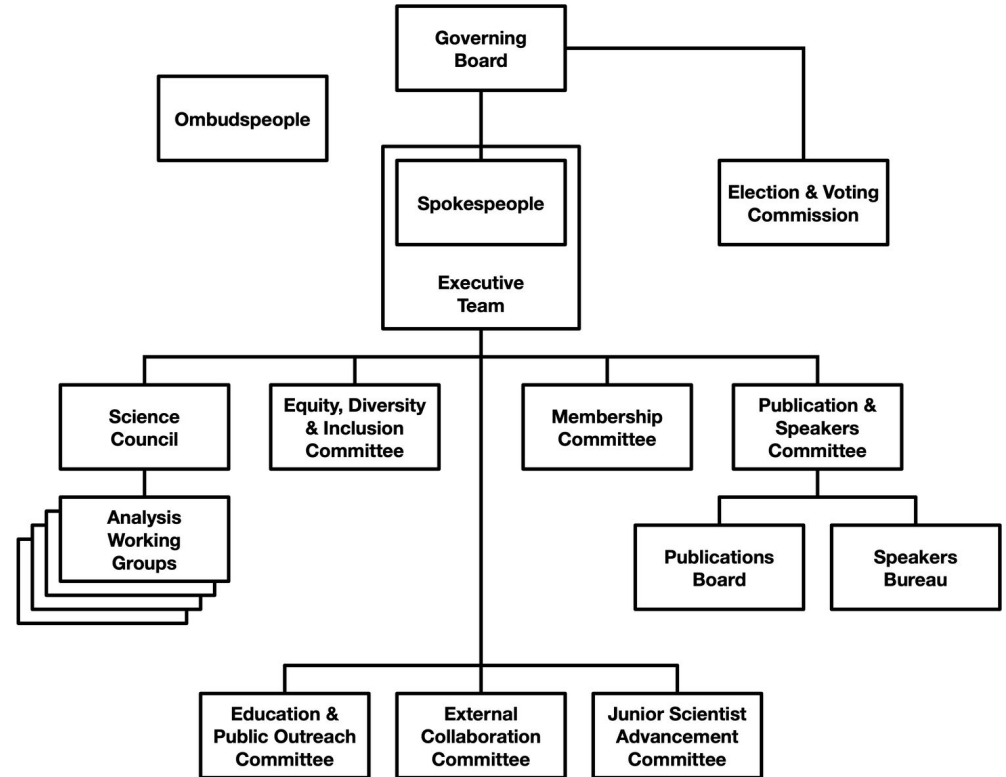


*Orgchart update is subject to approval of Bylaw modifications

# New Equity, Diversity and Inclusion Committee

Recently established *ad hoc* EDI committee with the chair (Sara Simon) being a member of the Executive Team

We'll hear from them shortly

EDI committee will lead a discussion after today's EDI session "Creating Communities of Care"

We encourage you to participate in today's EDI event and discussion.

Sara Simon (chair)

Shawn Henderson

Felipe Menanteau

Lloyd Knox

Tucker Elleflot

Marco Raveri

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# Update on Preliminary Baseline Design Report

- Joint effort of the Collaboration and Project

- Was used to guide the review panel of the NSF MSRI-1 Design and Development award in May.

- Effort now focused on
  - Improving flow-down from Science to Measurement requirements (Chapters 1 & 2)
  - Strengthening justification of the Baseline Design (Section 3.1)
  - Completing Design Validation Appendices

- Timeline: "publishable" draft by Nov 1, 2021 for CMB-S4 Project Director's review

- Required document for NSF PD and DOE CD-1 reviews expected to be held in 2022
  *(see John Corlett's Project update talk)*

Draft CMB-S4 Preliminary Baseline Design Report

CMB-S4 Collaboration
August 7, 2021
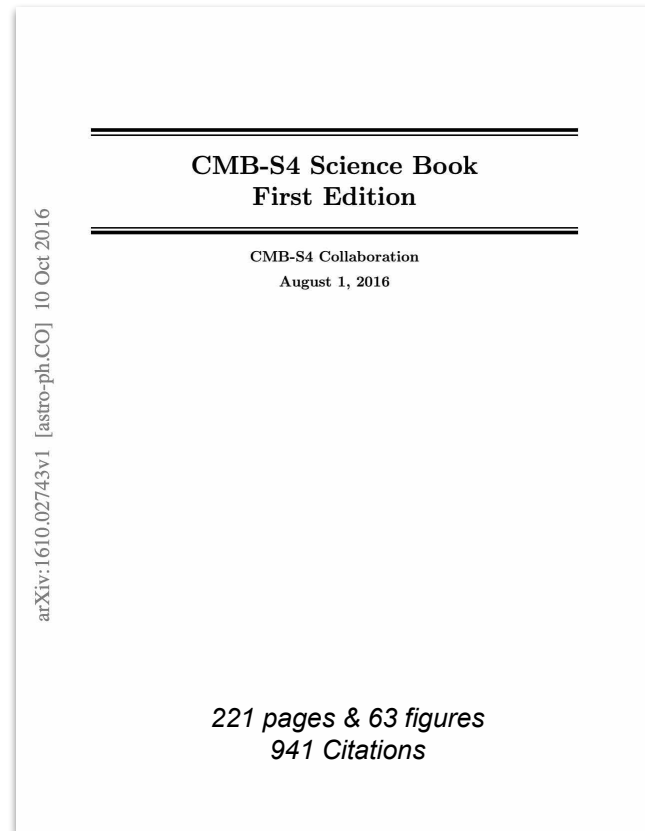
*currently 298 pages & 94 figures*

# CMB-S4 Science Book, <u>Second</u> Edition

Our 2016 First Edition Science Book was extremely important in advancing CMB-S4

Since 2016:
- established Collaboration and Project
- expanded the L1 science goals
- developed the instrument design and surveys
- developing the expanded science capabilities (e.g., science sessions of this meeting)

After Astro2020 is released and the instrument capabilities fully defined, we will want to lay out the comprehensive science capabilities of CMB-S4 in the Second Edition of the CMB-S4 Science Book.

arXiv:1610.02743v1 [astro-ph.CO] 10 Oct 2016

**CMB-S4 Science Book
First Edition**

CMB-S4 Collaboration
August 1, 2016

*221 pages & 63 figures
941 Citations*

# Update: CMB-S4 Summer School

The first CMB-S4 Summer School will be held next Monday through Wednesday.

School for junior scientists (81 registered) focused on the analysis of millimeter data from high-resolution CMB experiments and cross-correlation with optical data sets.

Organized by Lindsey Bleem, Chihway Chang, Tom Crawford, Alex Drlica-Wagner, Colin Hill, Renée Hložek & Jeff McMahon

See JSAC committee update for upcoming Junior Scientist advancement events

See EPO committee update and EPO workshop sessions for upcoming Education and Public Outreach events, and how you can get involved.



| | | | | | | |
|---|---|---|---|---|---|---|
| CMB-S4 SUMMER SCHOOL 2021 | Home | Agenda | Registration | Notebooks | Logistics | More |

## CMB-S4 SUMMER SCHOOL 2021

### AUGUST 16-18 2021

### ONLINE ONLY

We encourage junior scientists to register for this school which is focused on the analysis of millimeter data from high-resolution CMB experiments and cross-correlation with optical data sets. This workshop will be of relevance to those who are interested in cosmology and astrophysics research. A familiary with Python is recommended.

This three-day remote school will run **August 16-18, 2021,** from 11am-5pm Eastern. We will use **Jupyter notebooks** to teach basic CMB and optical oriented analysis skills.   We will also facilitate access to existing data sets from ACT and SPT.

# Online Services

- Information & membership application at the public website https://cmb-s4.org

- Unified collaboration and project online services are (mostly) accessed through single sign-on using google authentication.

- Starting at the website team login ensures you are authenticated correctly.

- If you have any issues logging in, clear cache.



- Team page also includes:
  - orientation page,
  - online services documentation,
  - supervisor interface.

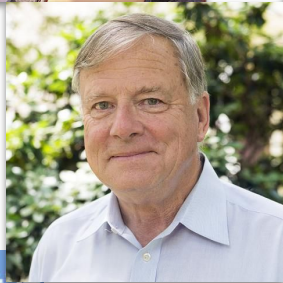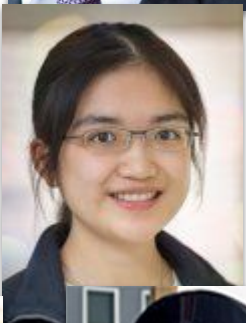# Publication & Speakers Committee

## Abby Crites

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# Speakers Bureau and Publications Board

- ## Speakers Bureau:
- Adam Anderson
- François Bouchet
- Eric Linder
- Johanna Nagy

# Speakers Bureau and Publications Board



Publications Board:

- Carlo Baccigalupi
- Clarence Chang
- Francis-Yan Cyr-Racine
- Martina Gerbino
- Patty Ho
- Kirit Karkare
- Bruce Partridge
- Nathan Whitehorn

# Speakers Bureau

**Our jobs** (quoted from the bylaws section 9.6):
• Solicit invitations to conferences and identify good venues for contributed talks.
• Actively solicit speakers for invitations to notable conferences with no volunteer speakers.
• Promptly respond to requests for speakers from conference organizers and act as a point-of-contact for people who want some CMB-S4 speaker but do not have specific ideas.
• Serve as a clearinghouse for talk invitations forwarded from any member.
• Curate a library of standard plots and slides for speakers to use in talks.
• Maintain records of all presentation given in the name of the Collaboration and a library of past CMB-S4 talks.
• Address overlap from multiple requests to give talks on the same subject at the same conference, ideally by suggesting focus changes to make them on different topics.

# Speakers Bureau

See the meetings of interest page:
https://cmb-s4.atlassian.net/wiki/spaces/XC/pages/406159479/Meetings+Of+Interest

# Speakers Bureau

You (members of CMB-S4) can also add conferences to the "meetings of interest" page and contact us if you would like to give a talk about CMB-S4!

# Publications Board

**Our jobs:**
- Oversee the collaboration review and submission process for publications
- Help with proposed updates to the bylaws around publication and authorship

**Current Issues:**
- Soliciting proposed projects
- Reviewing Proposed Projects
- Setting Up Publications Board Liaison to help with the publication review process

# Membership Committee

## Christian Reichardt

# MC Overview

**Members:**

Jamie Bock
Aurelien Fraisse
Christian Reichardt
John Ruhl
Maria Salatino
Sarah Shandera
Ben Westbrook

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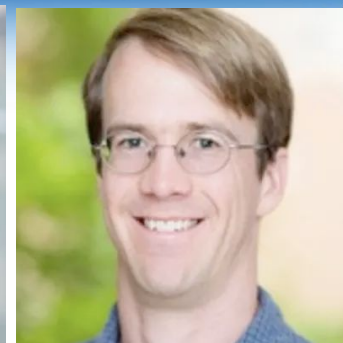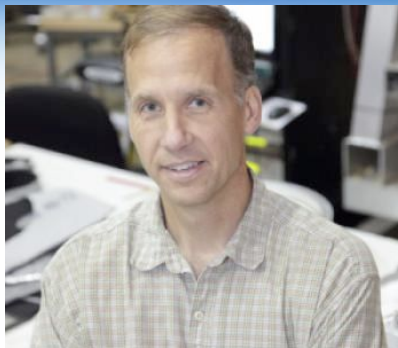
# MC Overview

## Members:

Jamie Bock
Aurelien Fraisse
Christian Reichardt
John Ruhl
Maria Salatino**
Sarah Shandera
Ben Westbrook

*** Membership applications czar*

## Our Jobs:

- Process and review applications for membership (or change in membership status), then make recommendations to the GB.

- Formulate, process, and review annual activity reports.

- Review membership policies, make recommendations to GB for changes in those.

# Membership Applications and Changes in Status

- Go to cmb-s4.org -> TEAM -> application form
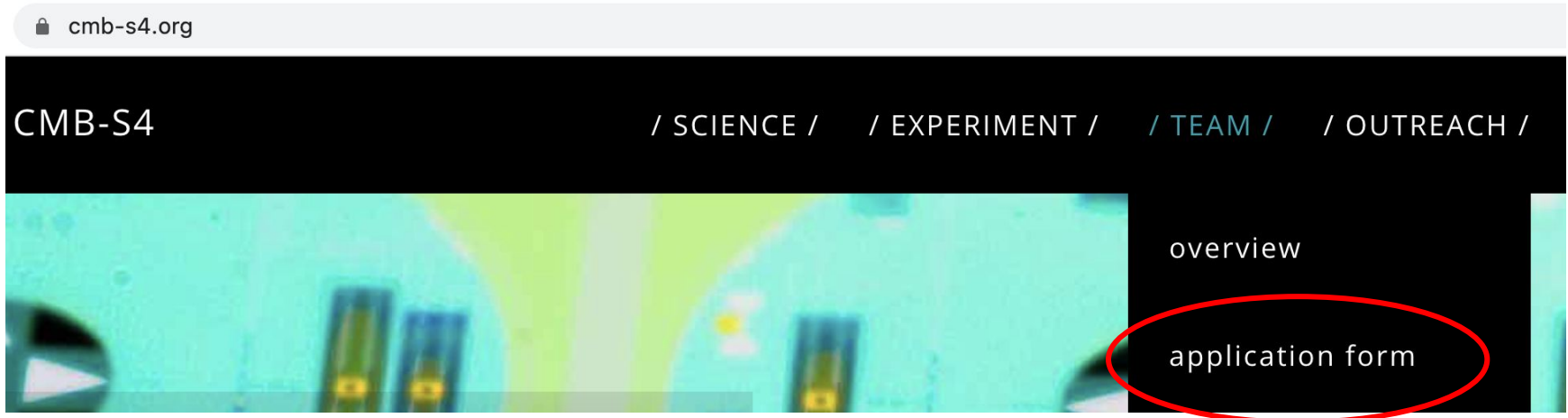


**Read directions at the top of the google form:**
- applicants for Senior and Independent Postdoc: fill out google form
- Students and Postdocs supervised by a Senior member, have that senior member go to the link given there (https://cmb-s4.org/team-page), and scroll to middle and click on "supervisor interface" where they can add students and postdocs as members. (Note: you may need to clear cache, or go incognito for login to work)

# Supervisor Interface

**Team Page (scroll down to find Membership area)**



A web browser showing cmb-s4.org/team-page/ with the CMB-S4 WordPress site. Navigation menu items: / SCIENCE / / EXPERIMENT / / TEAM / / OUTREACH / / NEWS / / GOVERNANCE / / TEAM LOG

• MediaWiki (now deprecated)
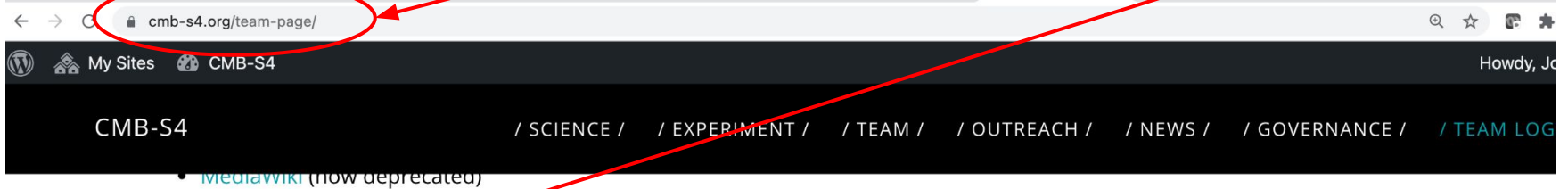
## Membership:

- Student/Postdoctoral members:
  - to support job applications, you may request intended Senior member status by submitting your research plan to the Membership Committee.
  - once you have a new position, you must apply for Senior or Independent Postdoc membership by submitting a membership application form, or have your new supervisor designate you for membership, as appropriate.
- Senior members:
  - to view, edit and add your supervised student and postdoc members use the supervisor interface.
  - if you change institutions simply update your membership record accordingly.

# Supervisor Interface
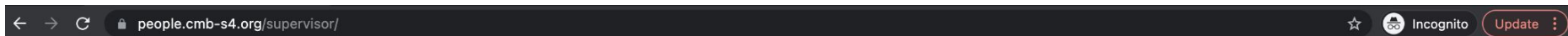


## CMB-S4 Supervisor Management Console

Add a supervisee

Welcome John Ruhl! This is a list of the members you supervise.

Number of entries found: 1

| | Uid | CN | Login Address | Email Address | Github Username | Org1 | Org2 | Membership | Qualifier | Supervisor | Join Date | Current Status Date | Expected End Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | GullettIan | Ian Gullett | | | | Case Western Reserve University | | Student | Full | John Ruhl | 10/17/19 | 10/17/19 | 07/31/23 |

**Click to add supervisee**

**Click to modify "End Date",**
**or to change a student to postdoc status.**

# MC - Activity Reports

- Transitioned to a new tool (google form rather than survey monkey), tied to member records (for auto-population of some fields), and so that only members could fill it out.

- Reviewed all "provisional" members who submitted activity reports, for possible transition to "full" membership.  In Governing Board's (GB's) hands now.

- Nearly done reviewing the rest, will send a report to the GB soon.

# Bylaws plans (Not official yet, in GB hands)

- Recommended (to Spokespeople and GB) a reorganization of membership types and "status qualifiers". Here is what is under consideration:

  - **Membership types**
    - Senior, Postdoctoral, Student, Legacy, ~~Provisional~~
    - PD and Student membership -> limited term, end date in membership record. Can be extended by supervisor.

  - **Status qualifiers**
    - Full
    - Provisional (between initial application and full, for Senior and Indep PD)
    - Pending (for Student->Indep. PD and PD->Senior transitions)
      - For those who have applied for new status, application being reviewed.
    - Inactive
      - Those who have failed to respond to requests for activity reports or renewals in a timely manner, or are otherwise deemed insufficiently active.

New

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# Science Council

## Kevin Huffenberger & Joel Meyers

# Committee Membership

### Clusters (*NEW*)

Jim Bartlett
(APC - U. of Paris)

Srini Raghunathan
(Illinois)

### Low-ℓ BB

Colin Bischoff
(Cincinnati)

Kimmy Wu
(SLAC)

### Maps to $C_\ell$

Marilena LoVerde
(Stony Brook -> Washington)

Christian Reichardt
(Melbourne)

### Maps to Other Statistics

Marcelo Alvarez
(Berkeley)

Blake Sherwin
(Cambridge)

### Sources and Transients

Anna Ho
(Berkeley)

Joaquin Vieira
(Illinois)

### Co-Chairs

Kevin Huffenberger
(Florida State)

Joel Meyers
(SMU)

*thanks to Nick Battaglia who finished term in July

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# Science Council

**Charge:** Help produce a coherent plan for advancing the science goals of the Collaboration and work to carry it out.

**Membership:** Leads of the Analysis Working Groups (appointed by Spokespersons) + 2 elected co-chairs.

**Other Duties:**

- Approves the projects that lead to publications (procedure from Pub Board)
- Responsible for maintaining a list of Key Science topics (coming soon)

# Science Council - Recent Activities

**Slight re-organization**

- New Clusters group so that "Sources" is not responsible for two design-driving science goals

**PBDR revisions**

- Main responsibilities:
  - Chapter 1: Science Motivation
  - Chapter 2: Requirements & Flowdown
  - Chapter 4: Science Analysis
  - Appendix A.2: Validation of Design      ("Do Measurement reqs. achieve Science reqs.?")
- Schedule
  - New draft Aug 9 for discussion at Collaboration meeting (some areas rougher than others)
  - Revisions due Sept 15 for Internal Collaboration Review
  - Publication ready version due by mid October
  - Director's review in November

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# Science Council - Recent Activities

**Performance vs. time plots**

**Upcoming Junior Scientist event**

- Want to advertise AWG tasks that need person power

**Science Task List**

- Following LSST example
- Provides support for theory proposals
- Signal to agencies the tasks that need to get done to enable CMB-S4 Science
- Tied to deliverables for key science projects
- Broader science than just the 4 driving goals, but may include key goals

# **Coordination of funding applications**

DOE [Open Funding Opportunity Announcements](#)

[FY 2022 Research Opportunities in High Energy Physics](#) [pdf]

LOI (encouraged):      31 Aug 2021

Proposal due:      5 Oct 2021

Please let us know if you are planning to apply for Analysis / Forecasting / Science planning with CMB-S4

# Junior Scientist Advancement Committee

**Chair: Darcy Barron**

Vice-Chair: Martin White

Lindsey Bleem, Evan Grohs, Karthik Prabhu, Sara Simon, Radek Stompor

*CMB-S4 Summer Collaboration Meeting - August 9th 2021*

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# Recent Events

- **Winter 2020/2021 Job Application Advice Groups**
  - Created small groups of junior members with similar interests, led by a senior member
- **Spring 2021 Workshop**
  - 'Pre-Meeting' before spring 2021 workshop
    - 95 people 'packed' into the lecture hall in Gather.town
  - Career Panel during spring 2021 workshop
    - Online workshop allowed us to invite panelists from a variety of career paths and locations

# Upcoming Events - This Week

- Tomorrow (Tuesday), we will run parallel junior and senior sessions
    - **Junior Closed Session**
        - Hosted by Ben Schmitt (vice-chair of Governing Board, postdoc representative to Governing Board) and Karthik Prahbhu (grad student member of JSAC)
    - **Senior Feedback Session (open to all)**
        - Hosted by Darcy Barron (chair of JSAC), Lindsey Bleem (chair of Governing Board), and Sara Simon (chair of EDI committee)
        - Open discussion of potential programs to support junior and early career collaboration members, and how to support and encourage participation by senior members

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# Social and networking opportunities this week

- **Hosted Social Hours on Gather.Town**
  - Gather.town is open every day before and after meeting
  - **Wednesday - Career/Networking Hours**
    - Starting a job search? Looking to hire a postdoc? Just wanting to meet and network with new people?          Come to Gather.Town before or after **Wednesday**'s session!
    - JSAC members will help facilitate introductions and discussions.
  - **Thursday - How to get involved in EPO**
    - At **Thursday's** post-session social hour, the Education and Public Outreach Committee will be in Gather.Town with JSAC to discuss how to get involved with CMB-S4 outreach efforts.

# Upcoming Events

- **Post-Meeting Event on How To Get Involved in CMB-S4 Science**
  - We are planning a post-meeting event, following this month's CMB-S4 workshop and data school, on how to get involved in CMB-S4 science efforts.
  - This will be hosted by the Junior Scientist Advancement Committee and the Science Council, with presentations on ongoing efforts by the working groups and opportunities to get involved.
  - We will announce the date, time, and more details soon!

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# Upcoming Events

- **Fall 2021 Job Application Advice Groups**
  - Starting earlier to ensure this can be helpful for searches and application deadlines (postdocs, fellowships, faculty positions, etc)
  - We are first soliciting senior members to help lead advice groups.
  - If you are interested, please fill out this Google Form: https://docs.google.com/forms/d/e/1FAIpQLSdaXH79j1dQatgiPVFE7tSQnF_OOBKAP7O9_A3IUgi7Ef3PmQ/viewform
  - Form for junior job-seekers will go out soon with more specific options for groups to join

# Education & Public Outreach Committee

**Juliet Crowell**

CMB-S4

# Education and Public Outreach Committee

EPOC supports the development of public programs for K-12 students, educators, and adult audiences. See CMB-S4.org/outreach.

Juliet Crowell
EPO Coordinator

Colin Bischoff EPOC chair
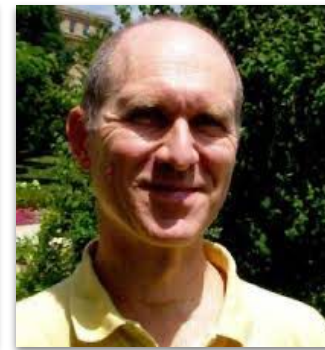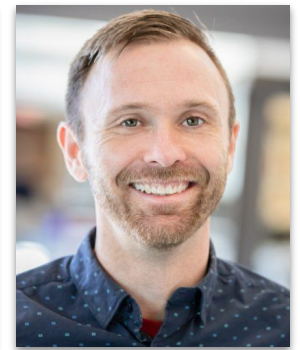
Tom Crawford

Lloyd Knox

Nick Galitzki

Felipe Menanteau

Anirban Roy

Chris Stoughton

Peter Timbie

Kasey Wagoner

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# Education and Public Outreach Commitee

**CMB-S4 Outreach Opportunities Summer – Fall**

- Saturday Science Series (virtual), September - Felipe Maldonado, fam14c@my.fsu.edu
- Virtual lectures for STEM Scholars at Howard University and Joliet College– Juliet Crowell, crowellj@uchicago.edu
- Summer STEM POP UP with Dr. Benjamin Schmitt, Harvard| Smithsonian Center for Astrophysics
- STEM & Art and exploring space with Dr. Kevork N. Abazajian, University of California Irvine
- Acoustics & Physics Outreach Program Development – CMB-S4 Scientist & Musicians – Juliet Crowell, crowellj@uchicago.edu
- Virtual lab tours (live and recorded) for K-12 audiences – Juliet Crowell, crowellj@uchicago.edu

**Join the EPOC:**

We meet bi-weekly on Tuesdays at 4:00 pm CT

Zoom meeting link and meeting notes on the  EPOC web page

**EPOC activities at this workshop:**

- Tuesday, August 10th, 10:00 am CT: Ronald Smith, Director of the Howard University Karsh STEM Scholars Program
- Wednesday, August 11th, 6:00 pm CT: Teen Jeopardy Night hosted by EPOC
- Thursday, August 12th, 3:00 pm CT: EPOC in Gather.Town

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# External Collaboration Committee

**Lloyd Knox**

What is the External Collaborations Committee?
- Mandated in bylaws
- Created ~ 6 months ago
- Raison d'etre: provide the necessary link to external follow-up observations or survey data that are required to maximize the science return from CMB-S4.

What have we been doing?
- Discussing how to proceed in the near term to support forecasting work for joint analyses.
  - We have recommendations in to the ET but have not had a chance yet to discuss with them.
- We have received a request from the ET to work on an MoU with LiteBIRD.

# Equity, Diversity & Inclusion Committee

**Sara Simon**

CMB-S4

# Committee Membership



Sara Simon
*she/her*
chair
FNAL

Shawn
Henderson
*he/him*
SLAC

Felipe
Menanteau
UIUC

Lloyd Knox
UIUC

Tucker
Elleflot
*he/him*
LBL

Marco
Raveri
*he/him*
U. Penn

Mailing list and meetings are open, so feel free to join!

# Committee Charge

- The committee [charge](#) is currently in draft form. We welcome your feedback!

- Version here is abbreviated

  - Professional training at every face-to-face meeting + EDI resources

  - Feedback and recommendations on major collaboration decisions and policies

  - Climate surveys and/or focus groups in coordination with professional services

  - Spokespeople accountable for the progress in addressing EDI recommendations→ EDI committee will provide an annual progress report

  - Receive anonymous comments related to the climate of the collaboration for the purpose of providing recommendations (Note: Does not take place of Ombudspeople/ Governing Board roles)

  - Develop and maintain shared definitions of justice, equity, diversity, and inclusion

  - Maintain contact with EDI initiatives outside of the collaboration to keep the collaboration informed of best practices

# Governing Board

## Lindsey Bleem

CMB-S4

# 1. Role of the Governing Board

- Oversight of the overall progress, status and functioning of the Collaboration.

- Oversight of the Spokespersons and their activities.

- Approval and revision of Collaboration Bylaws

- Formal acceptance of new Collaboration Members, and resolution of membership conflicts/issues

- Organization of elections for Spokespersons, GB Members, and other elected Collaboration officials

- Removal of any Collaboration Member from an elected or appointed leadership role in the event of major failings of professional conduct, or gross insufficiency of performance.

- Approval of additional long-standing subcommittees.
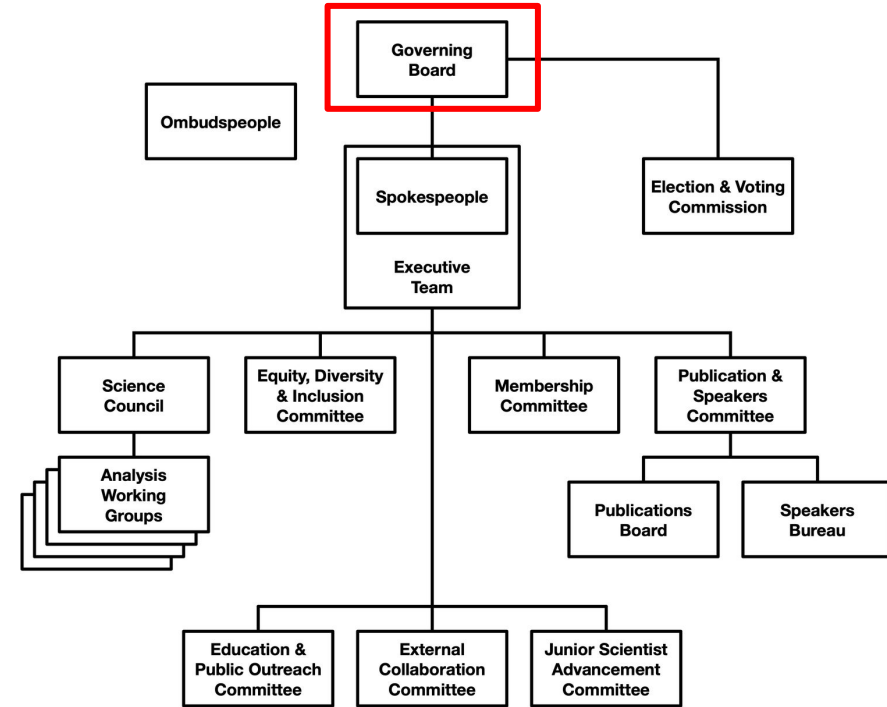


*See Bylaws Sec. 3*

# 2. Board Membership  (1/2)



Adam Anderson

Kam Arnold

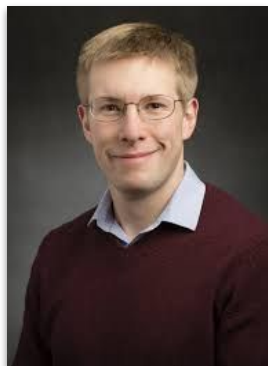Lindsey Bleem (chair)

Jamie Bock

Tom Crawford

Jeff Filippini

Raphael Flauger

Martina Gerbino

Nils Halverson

Akito Kusaka

# 2. Board Membership (2/2)



Adrian Lee     Johanna Nagy     Laura Newburgh     Bruce Partridge     Elena Pierpaoli

Christian Reichardt     Benjamin Schmitt (Vice Chair)     Sara Simon     Nathan Whitehorn

# Thank you to previous members of the board whose term finished in June!

Brad Benson, John Kovac, Charles Lawrence, Mike Niemack, Suzanne Staggs, Aritoki Suzuki

# 3. Current Activities

Meeting Agendas (published before each Governing Board meeting)

https://cmb-s4.atlassian.net/wiki/spaces/XC/pages/505675811/GB+Meeting+Agendas

Meeting Minutes (published after approval by Board, usually following subsequent meeting)

https://cmb-s4.atlassian.net/wiki/spaces/XC/pages/505512013/GB+Meeting+Minutes

Page with Agenda/Minutes Prior to Feb 2021

https://cmb-s4.uchicago.edu/wiki/index.php/Governing_Board

Please reach out to individual members with your comments/concerns or email the whole board at **gb@cmb-s4.org**.

# 4. Coming up

**Bylaws Amendments**:  Major amendments to be proposed to the collaboration this term include

- Code of Conduct
- Reorganization of Membership types/qualifiers (see Membership Committee update above)
- Phasing out of the Technical Council

**Elections**

- We will hold Executive Team and Governing Board elections this year. The GB will take an active role in the recruitment process of candidates for these positions and may propose bylaws amendments designed to facilitate smoother transitions in critical collaboration leadership roles.

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# Election and Voting Commission (EVC)

- The EVC carries out elections process as determined by bylaws.

- All full senior and postdoc members (non-provisional) can vote in elections

- This year the following positions will be up for election:

  - **Executive Team** (2 Spokespeople, 2 Science Council Chairs, Membership Committee Chair, Publications Committee Chair)

  - **Governing Board** (½ senior member seats + postdoctoral representative)

- All positions are two-year terms open to any senior member (except postdoc rep to GB)

# Election and Voting Commission (EVC)

The EVC is comprised of a chair and 2 members appointed by the Governing Board.

We are seeking new members to join continuing EVC member **Tom Cecil** on this important committee.

> If you are interested in serving on the EVC please send an email with a brief statement of interest to the GB chair and vice chair ([lbleem@anl.gov](mailto:lbleem@anl.gov) and [benjamin.schmitt@cfa.harvard.edu](mailto:benjamin.schmitt@cfa.harvard.edu)) by August 15th.

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# GB Session for Junior Members

**August 10th at 12:15/11:15/9:15 (ET/CT/PT)**

A closed session for junior members and non-members only, convened by the Governing Board postdoctoral representative Ben Schmitt.



Benjamin Schmitt
(Postdoc Rep, Vice Chair)

# Ombudspeople

## Renée Hložek & Greg Tucker

*CMB-S4 Summer Collaboration Meeting - August 9th 2021*

# The Ombudspeople

- are independent, neutral, and confidential resources for CMB-S4 collaboration members to bring any CMB-S4 related concern.
- provide an alternate and informal channel of communication
- listen to people and offer information about CMB-S4 policies and procedures.
- help people who seek a confidential channel for discussing or addressing an issue of concern without fear of retribution.
- help to promote ethical conduct and values; to alleviate disruption caused by disputes; and to identify policies, practices, or issues where a systems change may be appropriate.
- provide a place for people to seek guidance on how to report actual or potential violations of CMB-S4 obligations, and, if they wish it, to do so anonymously.
- follow the International Ombudsman Associations Code of Ethics and Standards of Practice.

Neutral  Unaligned  Impartial  Confidential Independent  Informal

CMB-S4

# The Ombudspeople

- are designated neutral and remain unaligned and impartial.
- strive to promote procedural fairness in the content and administration of the collaboration's practices and processes and policies.
- do not engage in any situation that could create a conflict of interest.
- will not answer questions about people with whom they may have spoken, or disclose an individual's name or specific issue.
- do not keep permanent records of confidential communications. Permanent records kept by the Ombudspeople include only statistical information for analyzing and reporting trends and recommendations to the collaboration. All other records are regularly destroyed.
- are independent in structure, function and appearance to the highest degree possible within the organization.
- work informally and have no power to make, change, or set aside administrative decisions or CMB-S4 policy.
- The ombuds people provide a report to the S4 community on a yearly basis CMB-S4 Ombudsperson Report 2018-2020