



# Why Snowmass?



# Why Snowmass?

## ✓ Learn more physics:

- Chance to learn about physics beyond your thesis/primary work

## ✓ Build your resume:

- Snowmass work is a great opportunity to give talks at workshops & get papers on your CV
- White Paper review process experience

## ✓ Networking:

- Entire US community (and beyond) is here! Connect with potential future collaborators/employers, meet peers and build EC community

# Overview of Snowmass Early Career (SEC)

- **Who we are:** early career (EC) physicists brought together by Snowmass process
  - “Early Career” = ~10+ years from highest degree guideline, including engineers/technicians; *guideline not a hard rule!*
- Historically “Snowmass Young”
- Building on a huge amount of EC interest during original nomination call (April 2020)
- Two arms of the organization: [\[Early Career Memo\]](#)

**Snowmass  
Coordination:**  
collaboration of  
EC liaisons for  
each frontier

**Core  
Initiatives:**  
Snowmass-  
independent  
offshoot

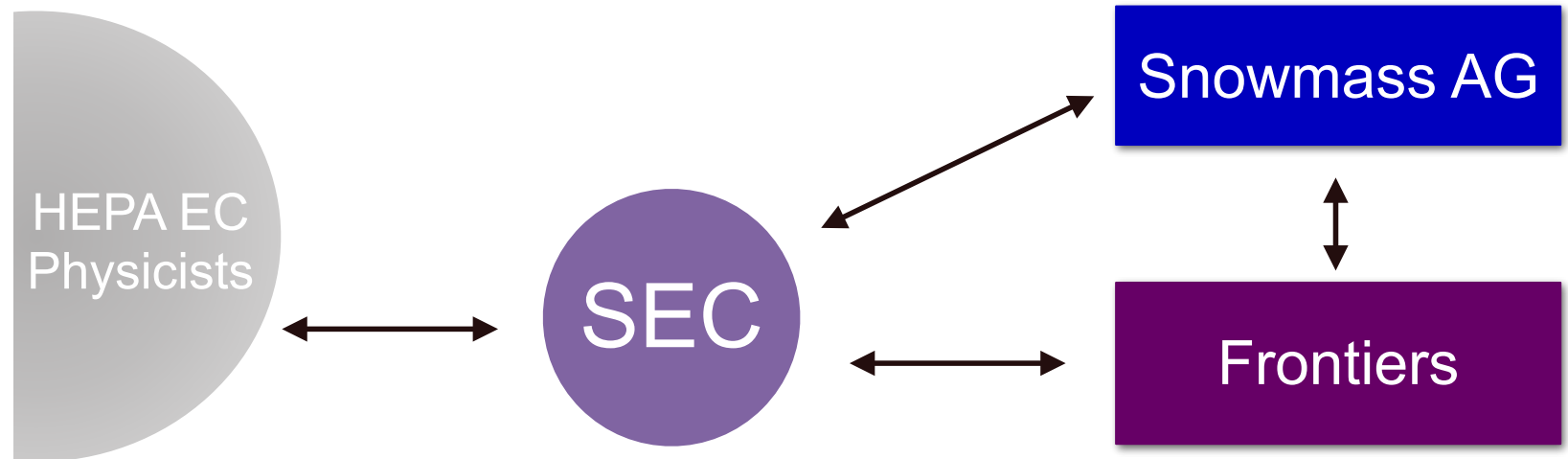
# 1. Snowmass Early Career Coordination

- **Structure:**

- ~2-3 early career liaisons for each frontier (rotating & elected by peers)
- Maintain level of leadership in line with topical group conveners (e.g. access to frontier meeting & planning conversations)

- **Roles**

- Engage early career members with physics activities of frontiers and push key SEC initiatives within frontiers
- Liaise with frontier leadership to disseminate relevant information to early career community
- Act as representation for early career community to frontier leadership, by passing on issues/feedback as needed



# 2. EC Core Initiatives

- **Structure:**

1. Survey
2. Diversity, Equity, & Inclusion
3. Inreach
4. Long-Term Organization

- **Purpose:**

- Connect and serve cross-frontier Snowmass community
- Organize/advertise resources & make recommendations on key issues for EC physicists
- Segue strong Snowmass EC enthusiasm into long term cross-subfield structure for high energy particle and astrophysics (HEPA)
  - Be prepared for *next* Snowmass process!

# 2. EC Core Initiatives

## Start Up Events!

- Structure:

1. Survey
2. Diversity, Equity, & Inclusion
3. Inreach
4. Long-Term Organization

- Purpose:

- Connect and serve cross-frontier Snowmass community
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- Segue strong Snowmass EC enthusiasm into long term cross-subfield structure for high energy particle and astrophysics (HEPA)
  - Be prepared for *next* Snowmass process!

- ★ [“Supporting Early Career People in Academia” Town Hall](#) (Sept 21)

- ★ [“Big Questions” Colloquium: Muon g-2](#) (Sept 17)

- ★ [“An Introduction and Orientation to Snowmass” Panel](#) (Sept 15)

# Facilitating Participation

- History of several talks on SEC/discussions with broader community
  - 2021 DPF Town Halls @ [APS April Meeting](#), [DPF Annual Meeting](#)
- Contributions to white papers: differing procedures by frontier
  - Some are solicited/offered to senior people to organize
  - Some are fully volunteered by teams within community
- Ideally maintain central database of analyses that want person power
  - ➔ SEC service work: [SEC LOIs](#), [White Paper Database](#)

Frontier	Count	Date
..	-	2021-04-27 22:09:41
AF	257	2021-07-09 20:41:00
CF	268	2021-06-08 12:16:33
CommF	82	2021-04-27 22:09:23
CompF	135	2020-10-17 00:46:29
EF	274	2021-07-14 16:17:49
IF	197	2021-02-02 21:48:03
NF	205	2020-09-15 12:53:23
RF	126	2020-09-21 04:46:06
TF	95	2021-04-04 18:57:03
UF	9	2021-05-27 15:51:13

## LOIs

## Index to Submitted Papers, by Frontier

- [Energy Frontier \(EF\)](#) (8)
- [Neutrino Physics Frontier \(NF\)](#) (2)
- [Rare Processes and Precision Measurements \(RF\)](#) (2)
- [Cosmic Frontier \(CF\)](#) (2)
- [Theory Frontier \(TF\)](#) (6)
- [Accelerator Science and Technology Frontier \(AF\)](#) (1)
- [Instrumentation Frontier \(IF\)](#) (4)
- [Computational Frontier \(CompF\)](#) (4)
- [Underground Facilities and Infrastructure \(UF\)](#) (0)
- [Community Engagement Frontier \(CEF\)](#) (0)



# Next Steps For EC Members

Today

No EC parallel: please visit frontiers of interest

March 15, 2022

Submission of White Papers

Do physics! Join existing white papers, start brand new ideas

July 17-27, 2022

Snowmass Community Summer Study (CSS) at UW-Seattle

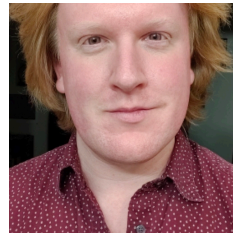
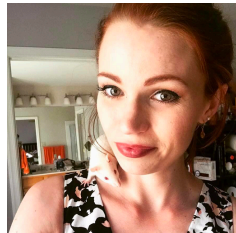
As a community, start brainstorming funding resources for EC physicist travel

October 2022

Snowmass Report finalized

# Conclusions

- Very motivated early career community ready for Snowmass & more!
  - Contact with each frontier to facilitate EC participation
  - Four **Core Initiatives** developing comprehensive EC infrastructure
  - Long term organization plans under discussion with broad community feedback
- Get involved!
  - New & improved twiki: <https://snowmass21.org/start/young>
  - [YouTube channel](#) (recordings of all start up events)
  - [#welcome-to-snowmass](#) (how/where to start)
  - [#snowmass-young](#) (general EC announcements)
  - [Snowmass EC calendar](#)



# Backup

# Survey

- Collecting opinions & experiences on careers, physics outlook, workplace culture, harassment/racism, visa policies, COVID-19, & demographics
- Not just for early career physicists! Includes experiences of entire high energy & astrophysics community



- Expected to take 20-60 minutes
  - Slack: [#early-career-survey](#)
  - [FNAL News article](#)
- ➔ *Wrapped up in August; synthesized results to come!*

# Diversity, Equity, & Inclusion

- Developing recommendations on DEI for Snowmass recruitment (Initiatives & Frontiers): nearing finalization!
- Following captioning status for Snowmass-related activities
- Organizing DEI Town Halls with Community Engagement Frontier

- June 2021: “[Navigating Mentor/Mentee Relationship](#)”

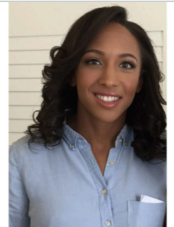
- Next in Sept: “Supporting Early Careers in Academia”



Dr. Marcela Hernandez



Dr. Cagliyan Kurdak



Dr. Brooke Russell



Dr. Sara Simon



Dr. Sweeney Windchief

- Slack: [#early-career-diversity](#), [sec-dei](#)

# Inreach

- “Big Questions In...” colloquium series
  - [Higgs physics](#) (May 2021)
  - Next up: Muon g-2

? **Big Questions in Particle Physics**  
A Snowmass Colloquium Series by SEC-Inreach

Friday May 21st @ 12-1:30pm ET

**Higgs**

<https://indico.fnal.gov/event/48840/>

Featuring  
**Caterina Vernieri & Sally Dawson**

50 years down the line, what questions might we hope to answer?  
And what will it take to get there?  
Welcome back, as 2 new speakers share their thoughts, and ask for yours.

Contact:  
Christian Herwig  
therwig@fnal.gov

- Coordinating EC presence for Snowmass session @ Fermilab Users Meeting
- Slack: [#early-career-inreach](#)

# Long-Term Organization

- Preparing to segue existing structure towards a long-term early career organization
  - [LOI](#) submitted on this topic in Community Engagement Frontier
- **Goals:**
  - Foster a welcoming, inclusive, collaborative, multidisciplinary EC community
  - Act as representative group for early career community across HEP/astrophysics
  - Act as advisory body for APS/experimental leadership on early career issues
  - Provide EC structure to future Snowmass processes
  - Networking opportunities across institutions, experiments, academic levels
- **Slack:** [#sec-longterm-loi](#)

# Snowmass Slack & Emails

1. Send an e-mail message to [listserv@fnal.gov](mailto:listserv@fnal.gov), leave the subject line blank, and Type “SUBSCRIBE SNOWMASS FIRSTNAME LASTNAME” (without the quotation marks) in the body of your message. This will also get you an invite to join the Snowmass slack.
2. Join the “Snowmass Young” mailing list by emailing to [listserv@fnal.gov](mailto:listserv@fnal.gov) with the body of the message “Subscribe snowmass-young FIRSTNAME LASTNAME”.
3. Join the [#welcome-to-snowmass](#) and [#snowmass-young](#) slack channels on the Snowmass slack space