

Welcome!

Rubin Observatory

Director's open + Construction Q&A

Monday August 10, 09:00-10:30 PDT

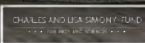
Chairs: Steve Kahn, Victor Krabbendam

Session Webpage:

<https://project.lsst.org/meetings/rubin2020/agenda/session/plenary-1-construction-qa>

Rubin2020_PCW Slack Channel:

[#day1-mon-slot1a-plenary-construction](#)



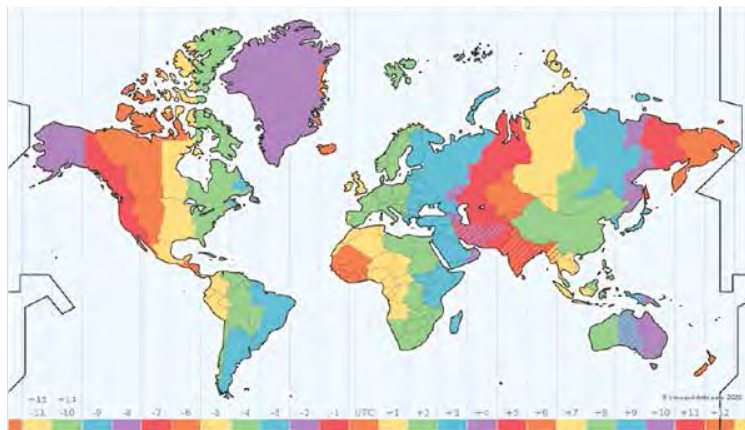
10th Project & Community Workshop!

1st Workshop
as Vera C. Rubin Observatory

10 Year Anniversary
of Ranking #1 in 2010 Decadal Survey

Largest Ever PCW
~500 Registered Participants

06:00 HST - 09:00 PT - 12:00 EDT - 18:00 CEST - 02:00 AET +1



Attendees from nearly all
time zones registered!

Shout-out for participating
at very unsocial hours.

Australia, New Zealand, China,
Taiwan, Japan, India, Korea, Hawaii

Meeting Code of Conduct



You agreed to abide by the Code of Conduct at registration - it can be found here on the website

The screenshot shows a web browser window with the URL `project.isst.org/meetings/rubin2020/`. The page title is "Rubin Observatory Project & Community Workshop 2020". The navigation menu includes "Home", "Program", "Register", and "Resources". The "Resources" menu is open, showing "Code of Conduct", "For Attendees", "For Presenters", and "For Session Chairs". A mouse cursor is pointing at the "Code of Conduct" link. Below the menu, the "Welcome" section contains text about the virtual meeting due to the COVID-19 pandemic, the Science Organizing Committee, and registration information.



Rubin adheres to the principles of Kindness, Trust, Respect, Diversity and Inclusion in order to provide a learning environment that produces rigor and excellence.



Any discriminatory behavior against colleagues on any basis, such as gender, gender identity, race, ethnic background, national origin, religion, political affiliation, age, marital status, sexual orientation, disabilities or any other reason will not be tolerated.



If I witness any form of bullying, harassment or aggression I will follow the reporting instructions in the Code of Conduct.

Virtual world interaction



All talks at this workshop will be recorded.

If you do not wish to be recorded, you are welcome to keep your camera off.



Videos are posted the next working day.

Each session will be posted on YouTube and embedded on the session's page.



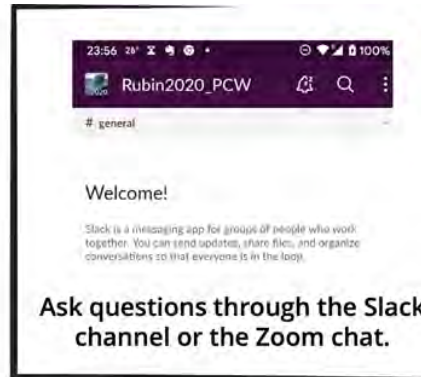
Give Slack questions a thumbs-up.

Questions with more thumbs up may get priority if time runs short.



Show your appreciation.

Feel free to applaud at any time but especially at the end - Slack has a clap emoji.



You can access the presentation material on the session page.

Monday, Aug 10

06:00 HST - 09:00 PT - 12:00 EDT - 18:00 CEST - 02:00 AET +1

Director's open

Steve Kahn

Director Steve Kahn will open up the meeting with a general address.

Join Now

Slack Channel

06:15 HST - 09:15 PT - 12:15 EDT - 18:15 CEST - 02:15 AET +1

Pre-View Materials

Plenary 1 - Construction QA

Victor Krabbendam



This plenary talk, given by Rubin Observatory Construction Project Director Steve Kahn, begins with an overview of the Project, including its organization and schedule. The talk includes comments o...

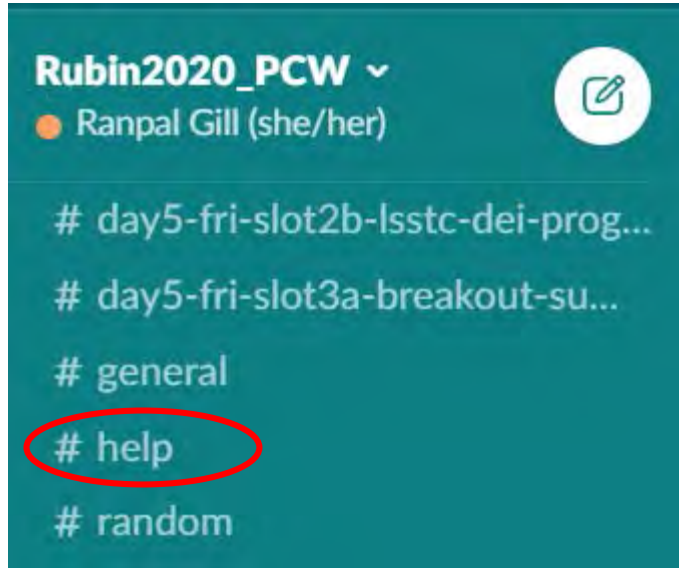
Join Now

Slack Channel

07:00 HST - 10:00 PT - 13:00 EDT - 19:00 CEST - 03:00 AET +1

Break

 Slack us for #help or
 email rgill@lsst.org



- Slack channel per session
 - Twitter Hashtag is #Rubin2020
 - Recordings posted by next day
 - Presentations uploaded on the agenda page
-
- Report about your session!
Friday closeout - 1 slide per session <https://ls.st/hqm>

Rubin Observatory

Updates



Renaming (as of January 2020)

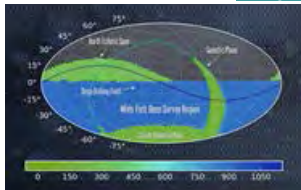
Project, facilities in Chile and Tucson → Vera C. Rubin Observatory



The astronomical Telescope → Simonyi Survey Telescope



10 year optical survey → Legacy Survey of Space and Time



Original concept of slide by frossie@lsst.org

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Project, facilities in Chile and Tucson → Vera C. Rubin Observ

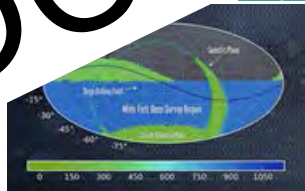


The astr

vey Telescope



10 year optical survey → Legacy Survey of Space and Time



DO NOT USE VRO



Original concept of slide by frossie@lsst.org

#Strike4BlackLives and #ShutDownSTEM

Many Rubin Project members observed the strike day.

Discussion points captured are being converted into an action plan.



Workplace Culture Advocates

<https://project.lsst.org/workplace-culture-advocate>



Sandrine Thomas
Telescope and Site
Project Scientist
Telescope and Site
Tucson, AZ



Richard Dubois
Senior Staff Scientist
Camera
SLAC National
Accelerator Laboratory,
Menlo Park, CA



Chuck Gessner
Head of Safety
Project Office
Tucson, AZ



Andy Connolly
Simulations Scientist,
Systems Engineering
University of
Washington, Seattle, WA



Carol Chirino
Administrative Manager/
Jefe de Administración
Project Office
La Serena, Chile



Felipe Daruich
Senior Electronics
Engineer
Telescope & Site
La Serena, Chile

Working with management as well as Communication and Training to roll out a workplace improvement plan focusing on:

Increased diversity
Retention
Satisfaction

[Document-35933](#)

Rubin Observatory

Workshop Information
Victor Krabbendam



PCW 2020 Agenda - Overview

| PT | Monday | | Tuesday | | Wednesday | | Thursday | | Friday | |
|-------|----------------------|------------|---------------------------|----------|------------------------|----------|-----------------|--------------|------------------------|------------|
| 08:45 | | | Lightning Stories | | Lightning Stories | | | | | |
| 09:00 | Director's open (15) | | Plenary 2 | | Plenary 3 | | Plenary 4 | | Diversity, Equity, and | |
| 09:15 | Plenary 1 | | Operations QA | | Science Collaborations | | Science Keynote | | Inclusion | |
| 09:30 | Construction QA (45) | | | | Report | | Presentation | | breakout session | |
| 09:45 | | | | | | | "AI in the Sky" | | | |
| 10:00 | | | | | | | Dr. Brian Nord | | | |
| 10:15 | BREAK (30) | | | | | | | | | |
| 10:30 | Intro to | Algorithms | Rubin Research Bytes | | Evaluating | In-kind | Community | LSSTC - | Stack | LSSTC - |
| 10:45 | Rubin: | Workshop | (contributed flash talks) | | Survey | proposal | Alert. | Fundraising | Club: | DEI in New |
| 11:00 | Systems & | Follow-up | | | Strategies | (repeat) | Brokers | | New | Programs |
| 11:15 | Jargon | | | | | | | | Science | |
| 11:30 | BREAK (30) | | | | | | | | | |
| 11:45 | | | | | | | | | | |
| 12:00 | Community | External | Commis. | In-kind | Community | | Low Surface | EPO | Breakout Summaries | |
| 12:15 | Support for | Synergies | & | proposal | Preparation | | Brightness | Interacting | | |
| 12:30 | Science | for Rubin | Validation | workshop | for Early | | Science | with Data in | | |
| 12:45 | | Science | | | Science | | | the Browser | | |
| 13:00 | ADJOURN | | | | | | | | | |
| PT | Monday | | Tuesday | | Wednesday | | Thursday | | Friday | |



Dr Brian D. Nord - Astrophysicist
Fermi National Accelerator Laboratory

| Wednesday | | Thursday | | Friday | |
|--------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------------|-----------------------------------|
| Lightning Stories | | | | | |
| Plenary 3 Science Collaborations Report | | Plenary 4 Science Keynote Presentation "AI in the Sky" Dr. Brian Nord | | Diversity, Equity, and Inclusion breakout session | |
| BREAK (30) | | | | | |
| Evaluating Survey Strategies | In-kind proposal workshop (repeat) | Community Alert Brokers | LSSTC - Fundraising | Stack Club: New Science Platform Tutorials | LSSTC - DEI in New Programs |
| BREAK (30) | | | | | |
| Community Preparation for Early Science | | Low Surface Brightness Science | EPO Interacting with Data in the Browser | Breakout Summaries | |
| ADJOURN | | | | | |
| Wednesday | | Thursday | | Friday | |

Rubin 2020 PCW - Diversity, Equity & Inclusion

| PT | Monday | | Tuesday | | Wednesday | | Thursday | | Friday | |
|-------|----------------------------------|--------------------------------------|------------------------------------------------|---------------------------|-----------------------------------------|------------------------------------|-----------------------------------------------------------------------|------------------------------------------|---------------------------------------------------|-----------------------------|
| 08:45 | | | Lightning Stories | | Lightning Stories | | | | Diversity, Equity, and Inclusion breakout session | |
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| 09:15 | Plenary 1 Construction QA (45) | | | | | | | | | |
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| 10:00 | | | | | | | | | | |
| 10:15 | | | | | | | | | | |
| 10:30 | Intro to Rubin: Systems & Jargon | Algorithms Workshop Follow-up | Rubin Research Bytes (contributed flash talks) | | Evaluating Survey Strategies | In-kind proposal workshop (repeat) | Community Alert. Brokers | LSSTC - Fundraising | Stack Club: New Science Platform Tutorials | LSSTC - DEI in New Programs |
| 10:45 | | | | | | | | | | |
| 11:00 | | | | | | | | | | |
| 11:15 | BREAK (30) | | | | | | | | | |
| 11:30 | | | | | | | | | | |
| 11:45 | | | | | | | | | | |
| 12:00 | Community Support for Science | External Synergies for Rubin Science | Commis. & Validation | In-kind proposal workshop | Community Preparation for Early Science | | Low Surface Brightness Science | EPO Interacting with Data in the Browser | Breakout Summaries | |
| 12:15 | | | | | | | | | | |
| 12:30 | | | | | | | | | | |
| 12:45 | ADJOURN | | | | | | | | | |
| 13:00 | | | | | | | | | | |
| PT | Monday | | Tuesday | | Wednesday | | Thursday | | Friday | |

Rubin 2020 PCW - Diversity, Equity & Inclusion



FEDERICA BIANCO



KEITH BECHTOL



ANDRÉS PLAZAS

| Thursday | | Friday | |
|-----------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------|-----------------------------------|
| Plenary 4 Science Keynote Presentation "AI in the Sky" Dr. Brian Nord | | Diversity, Equity, and Inclusion breakout session | |
| Community Workshops | LSSTC - Fundraising | Stack Club: New Science Platform Tutorials | LSSTC - DEI in New Programs |

Pre-recorded message

- Please watch 3 minute video <https://youtu.be/w0Ylx8tVTuA>

Rubin 2020 PCW - Lightning stories returns!

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Organizing committee



EMILY ACOSTA



JIM ANNIS



AMANDA BAUER



KEITH BECHTOL



FEDERICA BIANCO



PAT BURCHAT



JEFF CARLIN



GLENAVER CHARLES-EMERSON



RANPAL GILL
CHAIR POC



MELISSA GRAHAM
CHAIR SOC



ŽELJKO IVEZIĆ



SUZANNE JACOBY



SOMAYEH KHAKPASH



REGINA MATTER



ROBERT MCKERCHER



KRISTEN METZGER



TOM PATTERSON



MICHELLE POLAND



AIME WIEST

Zoom prep room

[Zoom prep room](#) ← Link

- Daily 13:30-14:30 (PDT)
- Friday 7th - Thursday 13th

- Check your audio
- Check your video
- Presenters: screen sharing test

Thank you Volunteers!

Siegfried Eggli

Arun Kannawadi

William O'Mullane

Nate Pease

John Swinbank

Rubin Observatory

Construction Update Q&A



Rubin Construction followed global COVID-19 Response Offices, labs and summit closed



- Team was making excellent progress and still doing well from home
- Closed in March with some lab work starting slowly


Communications Interim branding updates

GALLERY PUBLIC & SCIENTISTS PROJECT TEAM LSST CORPORATION SEARCH

Rubin Observatory

Opening a Window of Discovery on the Dynamic Universe

ABOUT SCIENCE GOALS PARTICIPATE GALLERY NEWS FOR SCIENTISTS



The telescope will produce the deepest, widest, image of the Universe:

- 27-ft (8.4-m) mirror, the width of a singles tennis court
- 3200 megapixel camera
- Each image the size of 40 full moons
- 37 billion stars and galaxies
- 10 year survey of the sky
- Up to 10 million alerts, 1000 pairs of exposures,
- 20 Terabytes of data . every night!

My account | Log out | LSST Home

Rubin Observatory

Change Control Board

Welcome Change Requests Filter Change Requests by Status Members Minutes Subsystem Change Control

LSST Content Creation

SUBMIT CHANGE REQUEST

Welcome

Change Control Process (LPM-19)

LCR Accounting Spreadsheet (Document-14571)

PUBLIC & SCIENTISTS PROJECT TEAM

Rubin Observatory

Logged in as: public

LSST Contacts Database

Provide feedback on builder status

Submit Updated Contact Information for Yourself

Select the contact list category

- Individuals Directory
- Telescope and Site
- Camera
- Data Management
- Systems Engineering & Commissioning
- Simulations
- Education and Public Outreach
- Science Collaborations

Quick Search

Any fragment, not case sensitive

First Name

Last Name

Affiliation

Our Value in the Safety Culture continues to dictate Project plans and Strategy

- On Site:
 - Safe movement and installation of major TMA components
 - Coordination of TMA and Dome activities without incident (safety procedure is working)
 - Demobilized people and equipment without incident due to COVID-19
- COVID-19
 - Summit Site inspections and activities placing equipment in safe mode and in preparation for winter
 - Exposure Prevention Plan and Procedures established



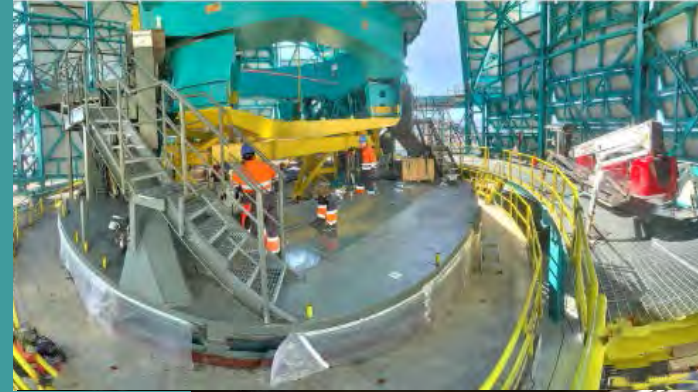
Telescope & Site – All major hardware systems on the summit

Dome cladding has been the highest priority for work early this year

After doing bbis subframes, just housing curly by eye, and taking a super exposure -> took more like an hour

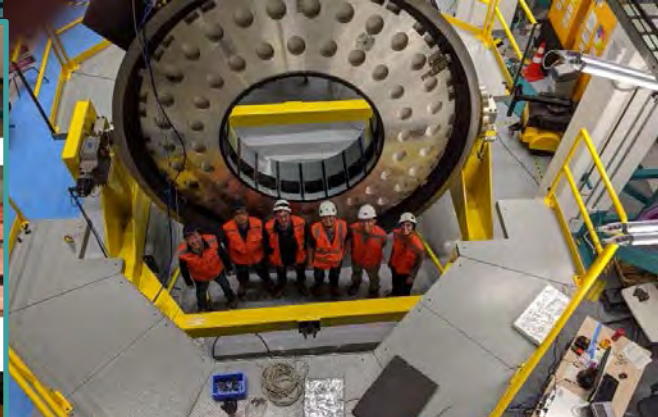


Telescope Mount Integration on Summit was ahead of schedule before COVID Shutdown
Azimuth bearing, Azimuth structure, Elevation Ring with Surrogate mass all installed



Camera Rotator Control Room

AuxTel Observing Dome Rotation Software in Hardhats



M2 Surrogate turned vertical on its Handling Cart at Level 3 of Summit Facility

Coating Samples for M1M3 coating prep.



1 of 22 constructed science raft

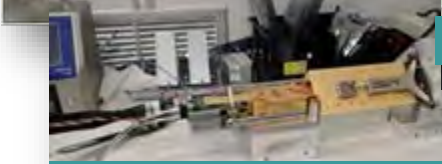


L1 and L2 lenses in their assembly

Constructed filter exchange system



Data Acquisition system

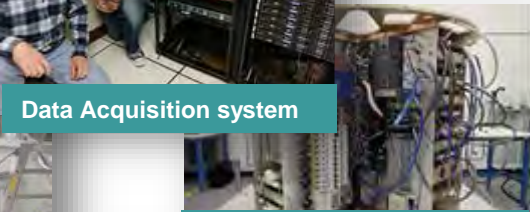


1 of 5 constructed corner raft



L3 lens in its mount

Cryostat internals



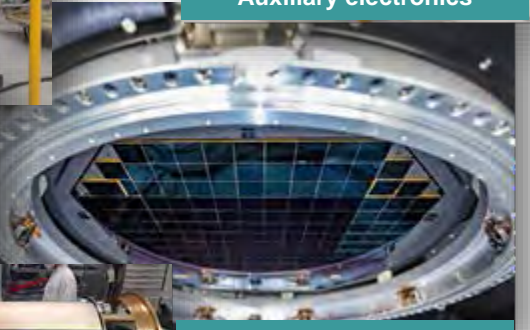
Auxiliary electronics



Camera Body and backflange



1 of 2 constructed shutter



3.2 Giga Pixel Focal Plane

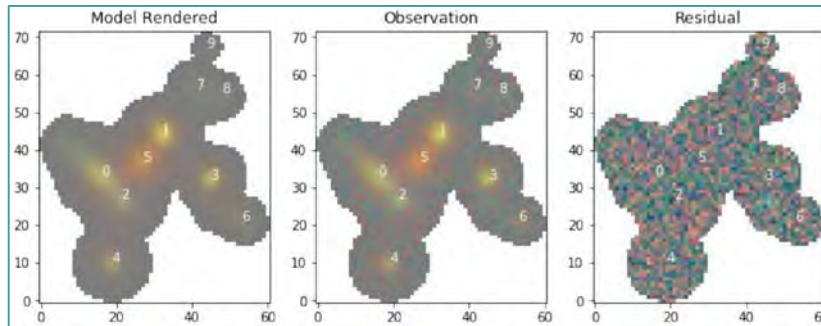


Utility trunk

Data Management – Continues to make excellent progress

Porting to “Generation 3” data access framework & processing middleware underway.

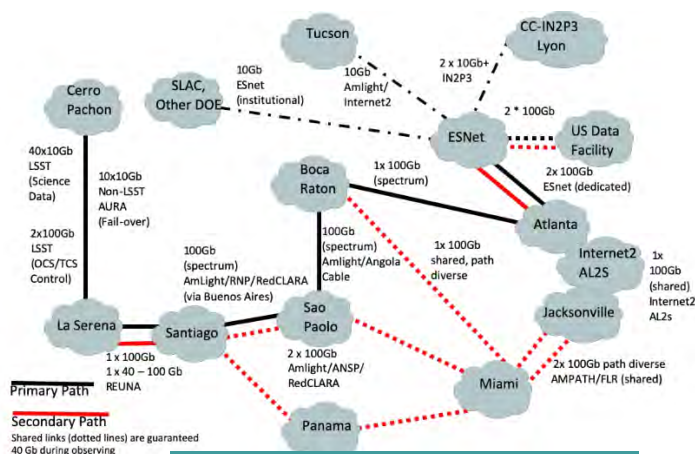
Exploring simplification of image capture and transfer



Science Pipeline Release 20.0 out - above deblending a complex scene with SCARLET, plus New calibration capabilities, calculation of DIAObject properties, alert packet generation

Data Facility Uncertainty but working with Pre-Ops

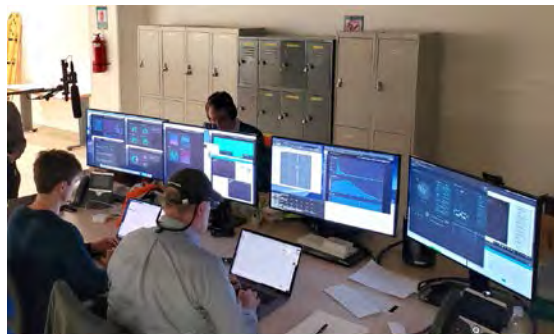
Aux-Tel data transport, pipeline integration image processing.



Qserv online at NCSA and CC-IN2P3; Gaia DR2, Hyper Suprime-Cam reprocessing, DESC DC2 in progress

Long Haul Network capacity continues to expand as planned

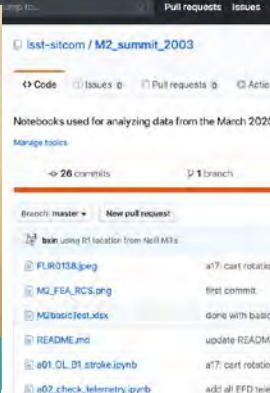
System Engineering & Commissioning – Early integration efforts underway – ComCam in Chile



AuxTel operations: Cerro Pachón Control Room
(photo Victor Krabbendam)



Simultaneously in the Tucson Control Room
(photo William O Mullane)



Test planning



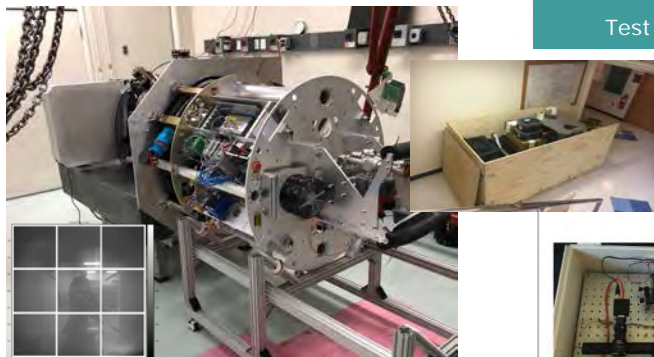
Pathfinder heat exchanger unit delivered to Chile



Camera Cable Wrap refrigeration fittings retrofit completed.

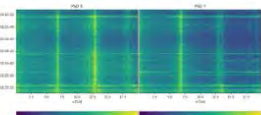


M2 Functional testing



ComCam shipping

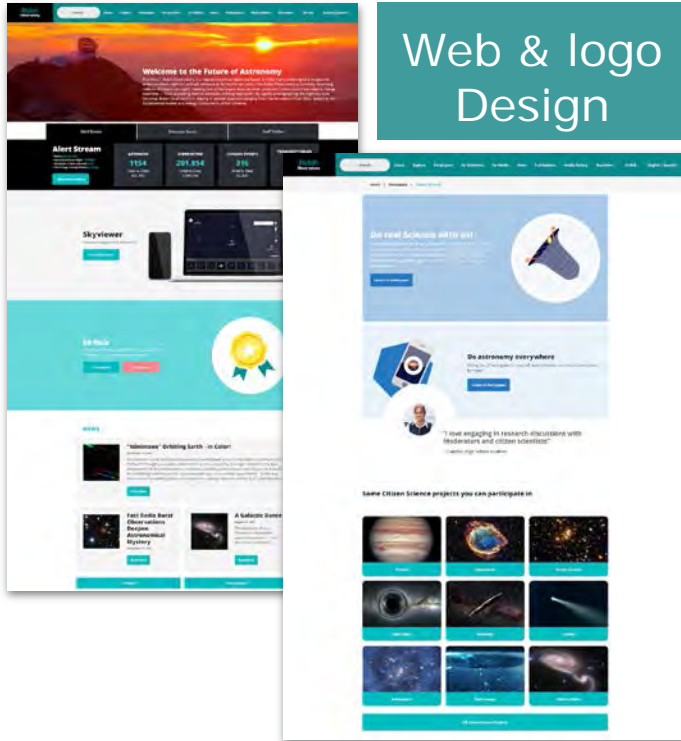
Dome seeing probe field testing



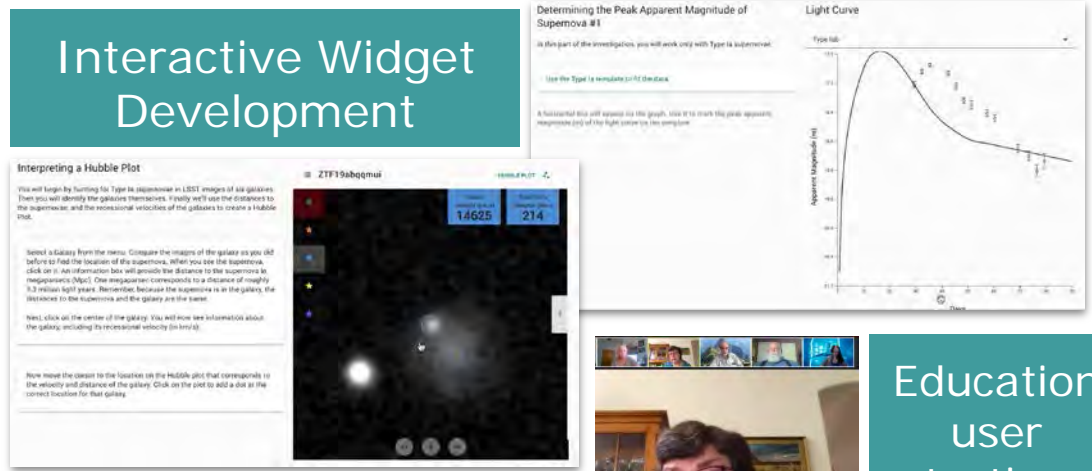
Education and Public Outreach (EPO) – Developing and testing for broad engagement



Web & logo Design



Interactive Widget Development



Education user testing

People remain our greatest Asset

- Working Closely with Pre-Operations Team to plan staffing transitions
- Sad to see John Swinbank leave later this year for new opportunity
- Long-time team member Jeff Kantor dialing back hours and efforts

Open Positions

Finishing Recruitment process for Observing Specialists

Commissioning- Verification Scientist | AURA/Rubin | Tucson | System Engineering

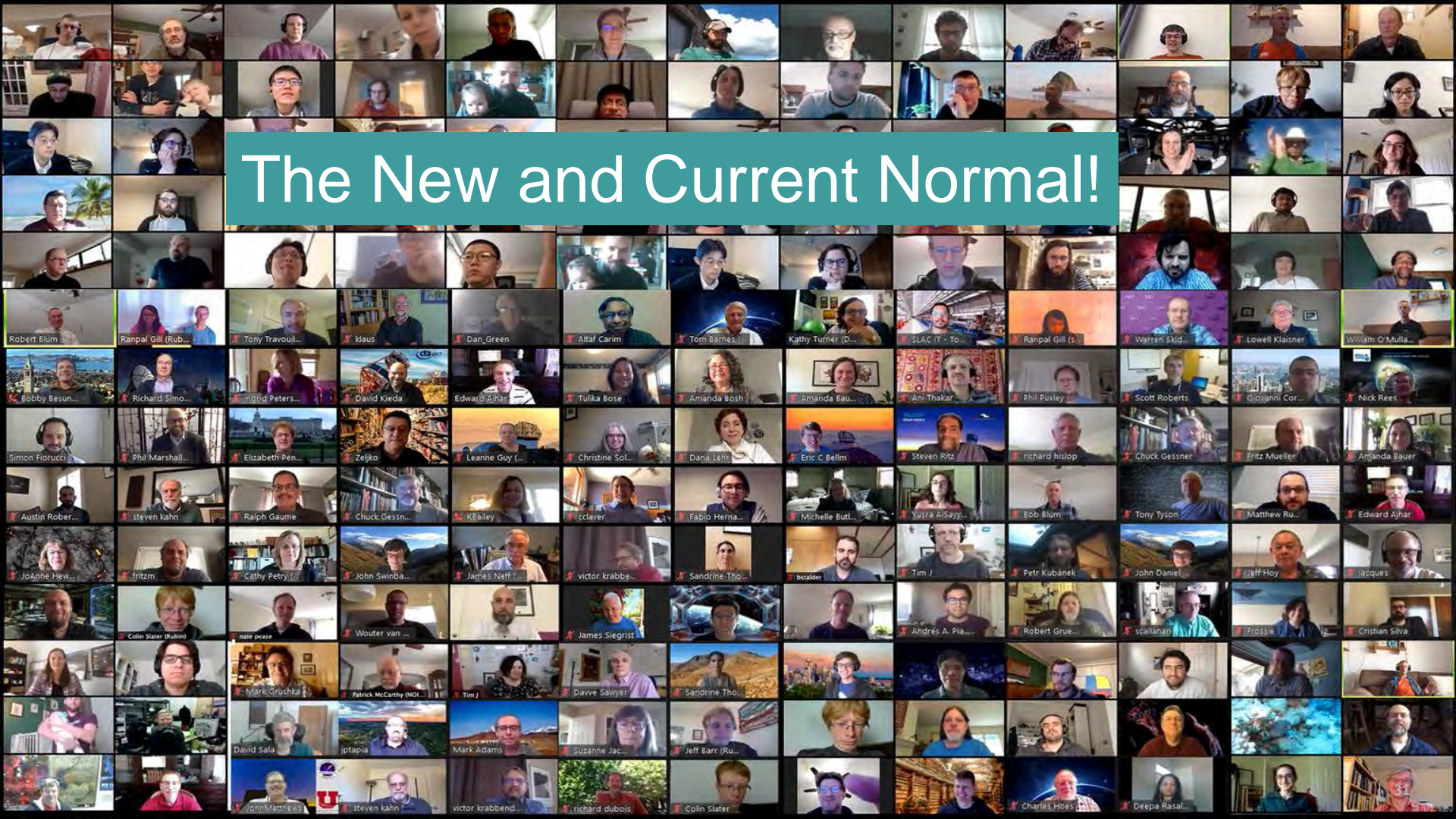
Senior Backend Web Developer | AURA/Rubin | Tucson | Education & Public Outreach

Coming soon

IT Engineer | AURA/Rubin | La Serena | Project Office - IT

<https://www.lsst.org/hiring/>

The New and Current Normal!



- Robert Blum
- Ranpal Gill (Rub...
- Tony Travaul...
- Klaus
- Dan Green
- Altaf Carim
- Tom Barnes (D...
- Kathy Turner (D...
- SLAC IT - To...
- Ranpal Gill (s...
- Warren Skid...
- Lowell Klansner
- William O'Mulla...
- Bobby Besun...
- Richard Simo...
- Ingrid Peters...
- David Kieda
- Edward Ahar
- Tulika Bose
- Amanda Bosh
- Amanda Bau...
- Ani Thakar
- Phil Puxley
- Scott Roberts
- Gioanni Cor...
- Nick Rees
- Simon Fiorucci
- Phil Marshall
- Elizabeth Pen...
- Zeljko
- Leanne Guy (...)
- Christine Sol...
- Dana Lehr
- Eric C Bellm
- Steven Ritz
- richard hislop
- Chuck Gessner
- Fritz Mueller
- Anganda Bauer
- Austin Rober...
- Steven Kahn
- Ralph Gaume
- Chuck Gessn...
- KBailey
- Clayver
- Fábio Herna...
- Michelle Butl...
- Yusra AlSayy...
- Bob Blum
- Tony Tyson
- Matthew Ru...
- Edward Ahar
- JoAnne Hew...
- Fritzm
- Cathy Petry (...)
- John Swinba...
- James Neff (...)
- victor krabb...
- Sandrine Tho...
- bradler
- Tim J
- Petr Kubánek
- John Daniel
- Jeff Hoy
- Jacques
- Collin Slater (Rubo)
- nate pease
- Wouter van ...
- James Siegrist
- Andrés A. Pla...
- Robert Grue...
- scallahan
- Frozzie
- Cristian Silva
- Mark Grushka
- Patrick McCarthy ONO...
- Tim J
- Dave Sawyer
- Sandrine Tho...
- Andrés A. Pla...
- Robert Grue...
- scallahan
- Frozzie
- Cristian Silva
- David Safa
- iptapia
- Mark Adams
- Suzanne Jac...
- Jeff Barr (Ru...
- Andrés A. Pla...
- Robert Grue...
- scallahan
- Frozzie
- Cristian Silva
- John Matricas
- steven kahn
- victor krabbend...
- richard dubois
- Colin Slater
- Charles Hoes
- Deepa Rasal...

May 5, 2020 @ 8pm



https://public.earthcam.net/lsst/summit_facility/camera_1/view_1

Rubin Observatory

Q&A

