

## Program, Science and Evolution of Gemini Observatory

All events will be at the Holiday Inn Fisherman's Wharf, except the conference dinner.

Invited talks are 20 minutes long, plus 5 additional minutes for questions.

Contributed talks are 15 minutes long, plus 5 additional minutes for questions.

Observatory/Instrument update talks are 12 minutes long, plus 3 additional minutes for questions.

### Sunday, July 22

1:00 PM **Data Reduction Workshop**

Sign-up required

[Click here to sign up](#)

5:00 PM **Welcome Reception**

Bristol Lounge, 1st floor, 5:00 to 7:00 PM

### Monday, July 23

#### Introduction

**Chair: John Blakeslee**

9:00 AM Letizia Stanghellini/Terry Lee

Welcome/Logistics

9:05 AM Laura Ferrarese

State of the Observatory

9:30 AM Andy Adamson

Introduction to modes and metrics

9:45 AM Rene Walterbos

Evolution of Gemini Observatory: Perspective from the Board

10:00 AM Laura Parker

STAC perspective

10:15 AM Joanna Thomas-Osip

Community-Centered User Support

10:30 AM **Break**

#### Solar System

**Chair: Joanna Thomas-Osip**

11:00 AM Karen Meech  
Invited Speaker

Follow-up of the First Known Interstellar Asteroid

11:25 AM Yoonyoung Kim  
Invited Speaker

Gemini Observations of Active Asteroid 354P/LINEAR (2010 A2)

11:50 AM Elliot Horch

High-Resolution Imaging with 'Alopeke's Wide Field Mode

12:10 PM **Lunch**

2:00 PM Rosemary Pike  
Invited Speaker

z-Band Photometry Reveals Three Distinct TNO Surface Types

#### Review of GPI Science and Possible Upgrades

**Chair: Stephen Goodsell**

2:25 PM Bruce Macintosh

State of the GPIES survey

2:45 PM Laurent Pueyo  
Invited Speaker

Characterizing 51 Eri b from 1 to 5  $\mu$ m: A Partly Cloudy Exoplanet

3:10 PM Ruslan Belikov

Direct Imaging of Alpha Centauri A and B with the Gemini Planet Imager

3:30 PM **Break**

4:00 PM Cristine Chen  
Invited Speaker

Results from LP program Characterizing Dusty Debris Disks with the Gemini Planet Imager

4:25 PM John Monnier  
Invited Speaker

GPI Large Program: Scattered Light Imaging of Young Stellar Objects

4:50 PM Tom Esposito Debris Disk Campaign Results from the Gemini Planet Imager Exoplanet Survey

5:10 PM **Evolution of GPI Discussion** Introduction by Bruce Macintosh. Facilitated by Stephen Goodsell, Bruce Macintosh, John Monnier, Christine Chen, and Rene Walterbos

5:55 PM **Adjourn for the day**

6:00 PM **Speed Collaboration** [Click here to sign up](#)  
**Facilitator: Jessica Werk** Bristol Bar, Lobby Level

## Tuesday, July 24

**Invited Session: Strategic plan for Gemini in the 2020s** **Chair: Laura Parker**

9:00 AM Eric Bellm Gemini in the LSST era

9:20 AM Todd Boroson Las Cumbres Observatory in the landscape of the 2020s

9:40 AM Tom Matheson Building the infrastructure for time-domain science (ANTARES)

10:00 AM Bryan Miller ToO Follow-up network: Gemini perspective

10:20 AM **Break**

10:50 AM John Blakeslee Gemini Strategic Plan

11:10 AM **Discussion** Facilitated by Laura Parker, Todd Boroson, John Blakeslee, Thaisa Storchi-Bergmann, and Henry Roe

12:00 PM **Lunch**

**"Under the Hood" Lunch Workshop** [Click here for schedule](#)  
**Chair: Matt Bayliss** [Sign-up required. Click here to sign up](#)

**Extrasolar Planets** **Chair: Henry Roe**

2:00 PM Jacqueline Faherty Invited Speaker Population Properties of Brown Dwarf Analogs to Exoplanets

2:25 PM Steve Howell Revealing the Fundamental Properties of Exoplanets and their Host Stars with 'Alopeke

2:45 PM Carlos Saffe Invited Speaker Signatures of Rocky Planet Engulfment in HAT-P-4. Implications for Chemical Tagging Studies

**Galactic Astronomy** **Chair: Narae Hwang**

3:10 PM Sukanya Chakrabarti Invited Speaker Discovery of a Group of Coherently Receding Variable Halo Stars

3:35 PM **Break**

4:05 PM Kim Venn Invited Speaker GRACES spectroscopy of metal-poor stars

4:30 PM Doug Geisler Deep GeMS Imaging of Obscured Bulge Globular Clusters

4:50 PM Thiago Gonçalves Quenching or bursting? Physical processes in green valley galaxies and the star formation acceleration

5:10 PM Ken Hinkle Invited Speaker Cosmic Survivors: Symbiotic X-ray Binaries

5:35 PM **Break**

5:50 PM **Special Announcement**

6:30 PM **Adjourn for the day**

## Wednesday, July 25

**Invited Session: Observatory Synergies** **Chair: Laura Ferrarese**

9:00 AM Beth Willman Plans for the National Center for Optical/IR Astronomy

9:25 AM	Michitoshi Yoshida	Subaru Telescope: Current Status and Future
9:50 AM	Gaitee Hussain	ESO in 2018
10:15 AM	Doug Simons	CFHT Status Report and Future Plans
10:40 AM	<b>Break</b>	

<b>Lightning Poster Introductions</b>	<b>Chair: Kim Venn</b>
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11:10 AM	<b>Lightning Poster Introductions</b>
12:00 PM	<b>Lunch</b>

<b>Instrument Development</b>	<b>Chair: Sandy Leggett</b>
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2:00 PM	Scot Kleinman	Gemini Instrumentation and AO Development Activities
2:15 PM	Steve Margheim	GHOST Overview
2:30 PM	Alexander van der Horst	SCORPIO Overview
2:45 PM	Gaetano Sivo	GeMS 2.0 begins: results of a successful new laser commissioning and beyond

<b>Nearby Galaxies</b>	<b>Chair: Lilia Bassino</b>
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3:00 PM	Sabrina Stierwalt Invited Speaker	Direct evidence of hierarchical assembly of low masses from isolated galaxy groups
3:25 PM	Guillermo Bosch	Multiple component kinematical analysis on the SDSSJ0838 'green pea' starburst galaxy: strong outflows and a hidden rotating disk.
3:45 PM	<b>Break</b>	
4:15 PM	Jonelle Walsh Invited Speaker	Galaxies and their Central Black Holes
4:40 PM	Irina Ene	Insights from stellar kinematics of early-type galaxies from the MASSIVE survey
5:00 PM	Favio Faifer	The past and the present of NGC 1316 through Gemini + GMOS
5:20 PM	Thaisa Storchi Bergmann Invited Speaker	Gas inflows and outflows around nearby AGN mapped with Gemini IFUs
5:45 PM	Roberto Bertoldo Menezes	Deep IFS View of Nuclei of Galaxies survey: first results
6:05 PM	<b>Adjourn for the day</b>	
7:00 PM	<b>Conference Dinner</b>	

<b>Thursday, July 26</b>
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<b>Visitor Instruments</b>	<b>Chair: Alison Peck</b>
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9:00 AM	Suresh Sivanandam	Gemini Infrared Multi-Object Spectrograph
9:15 AM	Frederic Zamkotsian	BATMAN@Gemini, a Visiting DMD-based Spectro-Imager: Instrumentation and Science Cases
9:30 AM	Jacob Bean	MAROON-X
9:45 AM	Nicolas Scott	Alopeke - evolution of an instrument line and capabilities
10:00 AM	Hwihyun Kim	The First IGRINS Visit to Gemini Observatory
10:15 AM	<b>Break</b>	

<b>Cosmic Explosions</b>	<b>Chair: Verne Smith</b>
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10:45 AM	Ryan Chornock Invited Speaker	The Gemini Perspective on Neutron Star Mergers
11:10 AM	Ryan Foley Invited Speaker	DES Supernova Cosmology Results
11:35 AM	Steve Margheim	The Kepler Supernova Experiment

11:55 AM Brenda Frye Using Gemini/GMOS to Understand One Massive Lensing Cluster and One QSO Host Galaxy

12:15 PM **Lunch**

**Galaxies and Cosmology**

**Chair: Rodrigo Carrasco**

2:00 PM Analía Smith-Castelli

Low Surface Brightness Galaxies: Challenging Gemini Observational Limits?

2:20 PM Janaina Nascimento

The first 62 AGN observed with MaNGA : gas excitation and surface mass density distribution

2:40 PM Michael Balogh  
Invited Speaker

Gemini Observations of Galaxies in Rich Early Environments (GOGREEN survey)

3:05 PM Matthew Bayliss

The SPT-GMOS Spectroscopic Survey: Velocity Dispersions and Velocity Segregation of  $\sim 100$  Massive Galaxy Clusters

3:25 PM **Break**

3:55 PM Mark Brodwin  
Invited Speaker

MaDCoWS: The Massive and Distant Clusters of WISE Survey

4:20 PM Yongjung Kim  
Invited Speaker

Discoveries and Properties of High-redshift Quasars with IMS

4:45 PM Woong-Seob Jeong

Nature of High-Redshift Dust-Obscured Galaxies in the ADF-S

5:05 PM **Conference Ends**