

The TMT Science Forum is...

- An annual gathering of astronomers from the TMT International Observatory partnership
 - Here, today: scientists from Canada, China, India, Japan and the United States
 - Plus other international guests!
 - Discuss progress and future planning for the observatory, instrumentation, operations, and science programs
- An opportunity for the US community outside the observatory partners (Caltech and the University of California) to become involved in TMT

The US community and TMT

• 2013: The NSF and TMT entered into a cooperative agreement to engage the US community in TMT planning and development.

"The primary deliverable of this award is to be a partnership model that might allow NSF to join the TMT Project on behalf of the US astronomical community."

- AURA is an Associate Member of the TMT International Observatory
 - Voting membership on the TIO Board and Science Advisory Committee
- NOAO executes the responsibilities, privileges, and participation activities of AURA, representing the US-at-large astronomical community
- NSF supports US community participation in the TMT Forum
 - More than half of you are from US institutions other than UC + Caltech

US TMT Science Working Group

Formed by NOAO to:

- Engage the US community and understand its interests and aspirations for TMT
- Represent those interests to the TMT project, SAC, and Board
- Develop a US TMT Participation Plan for the NSF
 - Draft report this year
 - Final report in 2015

Ian Dell'Antonio (Brown)
Mark Dickinson (NOAO, chair)
Anthony Gonzalez (Florida)
Stephen Kane (SFSU)
Jamie Lloyd (Cornell)
Jennifer Lotz (STScI)

Lucas Macri (TAMU)
Karen Meech (Hawaii/IfA)
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^{*} TMT Science Advisory Committee or Board member

TMT Science Forum program

"TMT in the Astronomical Landscape of the 2020s"

- **Today:** Introduction and TMT overview / status
 - Scientific synergies between TMT and current and future astronomical facilities

- **Tomorrow:** TMT Instrumentation Workshop (all day)
 - Topical science parallel sessions and International Science Development Team (ISDT) working meetings (afternoon)
 - Fundamental Physics & Cosmology
 - Early Universe, Galaxy Evolution, and the IGM
 - Milky Way and Nearby Galaxies
 - **Supermassive Black Holes**

- Formation of Stars & Planets
- **Exoplanets**
- Our Solar System
- Time Domain Science

Saturday:

- ISDT science reports
- Workforce, Education, Public Outreach, & Communications
- Open discussion: important issues & future directions

International Science Development Teams

- Fundamental Physics & Cosmology
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- Formation of Stars & Planets
- Exoplanets
- Our Solar System
- Time Domain Science
- Provide scientific input & guidance to TMT
- Help define observatory capabilities & operations model
- Stimulate planning for future TMT science programs
- Foster collaboration & cooperation between scientists in and beyond the international TMT partnership
- **165 scientists worldwide**, with annual call for new members
 - 57 ISDT members are here for this year's Forum

TMT Forum Do's and Don'ts

Do:

- Plan great science with TMT
- Talk to TMT scientists and the US TMT Science Working Group
- Tweet: #tmtsf14
- Wake up early! It's the nicest time of the day...
- Enjoy Ventana Canyon & the surrounding desert
- Drink water stay hydrated!

Don't:

- Ignore talks and read your e-mail
 - (Network: NOAO2014, Password: "wireless")
- Roast in the mid-day sun without water, hat & sunscreen
- Get hit by lightning during monsoon thunderstorms

Program: http://conference.ipac.caltech.edu/tmtsf2014

Speakers: Put your talks on the conference laptop

Breakfast, lunch & breaks: Kiva B (next door)

Friday breakout / parallel sessions: Salons C, J, K, L, Sabino, Rincon, Santa Rita (in main hotel building)

Local Organizing Committee:

David Atlee (NOAO)

Mark Dickinson (NOAO)

Hanae Inami (NOAO)

Holly Novack (TMT)

Jane Price (NOAO)

Warren Skidmore (TMT)

Gordon Squires (TMT/Caltech/IPAC)

Joelle Zavzavadjian (TMT)