



Subaru Users Meeting

Doug Simons
UH Institute for Astronomy
October 2025



*Arrivals, Outreach,
Awards...*



Incoming Faculty

Nour Skaf



Hilo (starting as faculty May 18, 2026)
Currently: 51 Pegasi b Fellow @ IfA Hilo
Previously: Postdoctoral Researcher @
UC Santa Cruz
PhD: Observatoire de Paris

Research interests: exoplanet science,
adaptive optics



Rohan Naidu

Mānoa (starting June 1, 2026)
NASA Pappalardo Fellow @ MIT
PhD: Harvard University

Research interests: galactic
archaeology surveys; first stars &
galaxies; cosmic reionization





Incoming Faculty



Neige Frankel

Mānoa (starting August 3, 2026)
Postdoctoral Fellow @ CITA
PhD: IMPRS (International Max Planck
Research School) Heidelberg

Research focus: disk galaxy evolution



Kartheik Iyer

Mānoa (starting August 3, 2026)
NASA Hubble Fellow @ Columbia
PhD: Rutgers University

Research focus: computational
extragalactic astronomy



Additional Faculty Positions

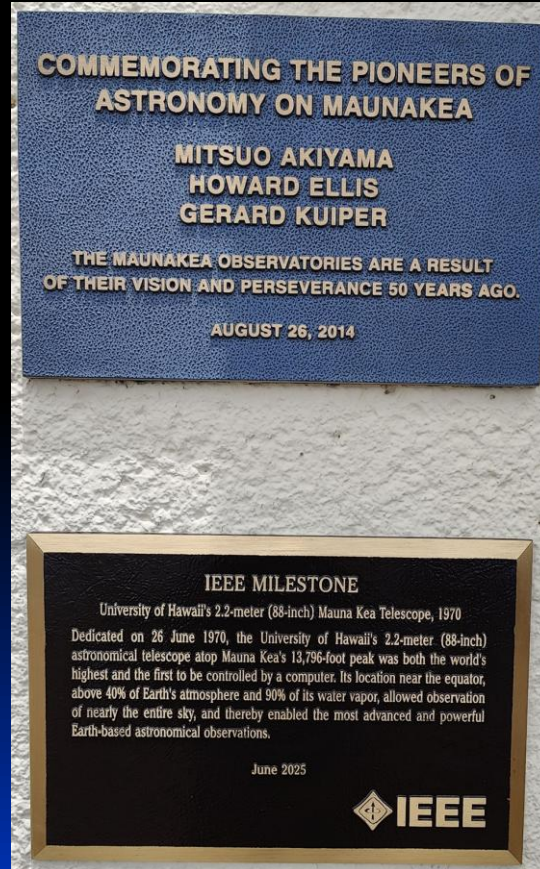
- ✳ IfA is now advertising for two more faculty openings – one located at IfA-Mānoa and the other IfA-Maui
- ✳ Combined with 8 new IfA faculty positions filled over the past ~3 years, and 8 new Space Science and Engineering faculty positions (collaboration between IfA and UH College of Engineering), 18 new faculty positions directly linked to IfA filled over the past few years
- ✳ 6 new graduate students added in 2025 cohort
- ✳ Despite uncertainties about the future, IfA continues to grow its capacity for research, education, and technology development



Community Connections



UH 88" Honored with IEEE Milestone



Credit: W. Layugan

Citation: “Dedicated on 26 June 1970, the University of Hawaii’s 2.2-meter (88-inch) astronomical telescope atop Mauna Kea’s 13,796-foot peak was both the world’s highest and the first to be controlled by a computer. Its location near the equator, above 40% of Earth’s atmosphere and 90% of its water vapor, allowed observation of nearly the entire sky, and thereby enabled the most advanced and powerful Earth-based astronomical observations.”

UH News, 2025-06-26: <https://www.hawaii.edu/news/2025/06/26/maunakea-uh-telescope-global-honor/>

Big Island Now, 2025-06-28: <https://bigislandnow.com/2025/06/29/university-of-hawaii%ca%bbis-telescope-dedicated-in-1970-now-honored-for-enduring-impact-on-space-exploration/>



Tanabata Block Party 2025: August 30





MKO's Supporting Maunakea Forest Restoration

- ✱ Maunakea Forest Restoration Project has on-going habitat restoration programs seeking volunteers
- ✱ Out plantings intended to push palila bird habitat uphill
 - ✱ Keck and IfA helped plant ~1000 trees at the ~10,000 ft level last month
- ✱ Most activities for the remainder of the year focus on starting seedlings to plant in the field next year





Maunakea Scholars Awards



Waipahu High School students who are Maunakea Scholars receive honorable mentions or telescope time.

Maunakea Scholars honors Hawaii's young astronomers

By Mia Anzalone
mianzalone@starbuckfor.com

The Maunakea Scholars program recognized 11 students from Waipahu High School during its annual awards ceremony at Waipahu High School on Friday, and awarded the \$10,000 Hōkūāla Scholarship to Mila Rexford.

astronomy education in college," according to a news release. Rexford, who will be attending University of Hawaii at Hilo in the fall, worked on her winning project, "The Mystery of the Red Square Nebula," since her sophomore year when she received telescope time through the program.

Over the past two years, a news release said she collaborated with astronomers in Hawaii and Great Britain to refine her data and create 3D-printed models of her research for young audiences and those with vision impairments.

"I've always been interested in astronomy, so receiving telescope time and seeing the environment as astronomers work in made me want to pursue it even more," Rexford said in a statement. "It was an honor to work with Maunakea Scholars on that project. Receiving this scholarship now will really help me further my education."



Mila Rexford

Rexford was among the 32 students from six statewide public high schools, including Kapolei, Kailua, Molokai, Waipahu, Waikeke and Keolu, who participated in the program this past year.

Friday's awards ceremony also recognized the 10 Waipahu students who will receive telescope time next year.

Waipahu students Natalie Tosta, Joshua David Valentin, Devan Al-Elnore, Matthew Vila, Janessa Torres, Jorge Rada, Isaac Pacariem, Aaron Paguirigan,

Artelle Dagulo and Ahea Brille Orfila received the awards and will study topics that range from the solar system to distant galaxies, according to the news release.

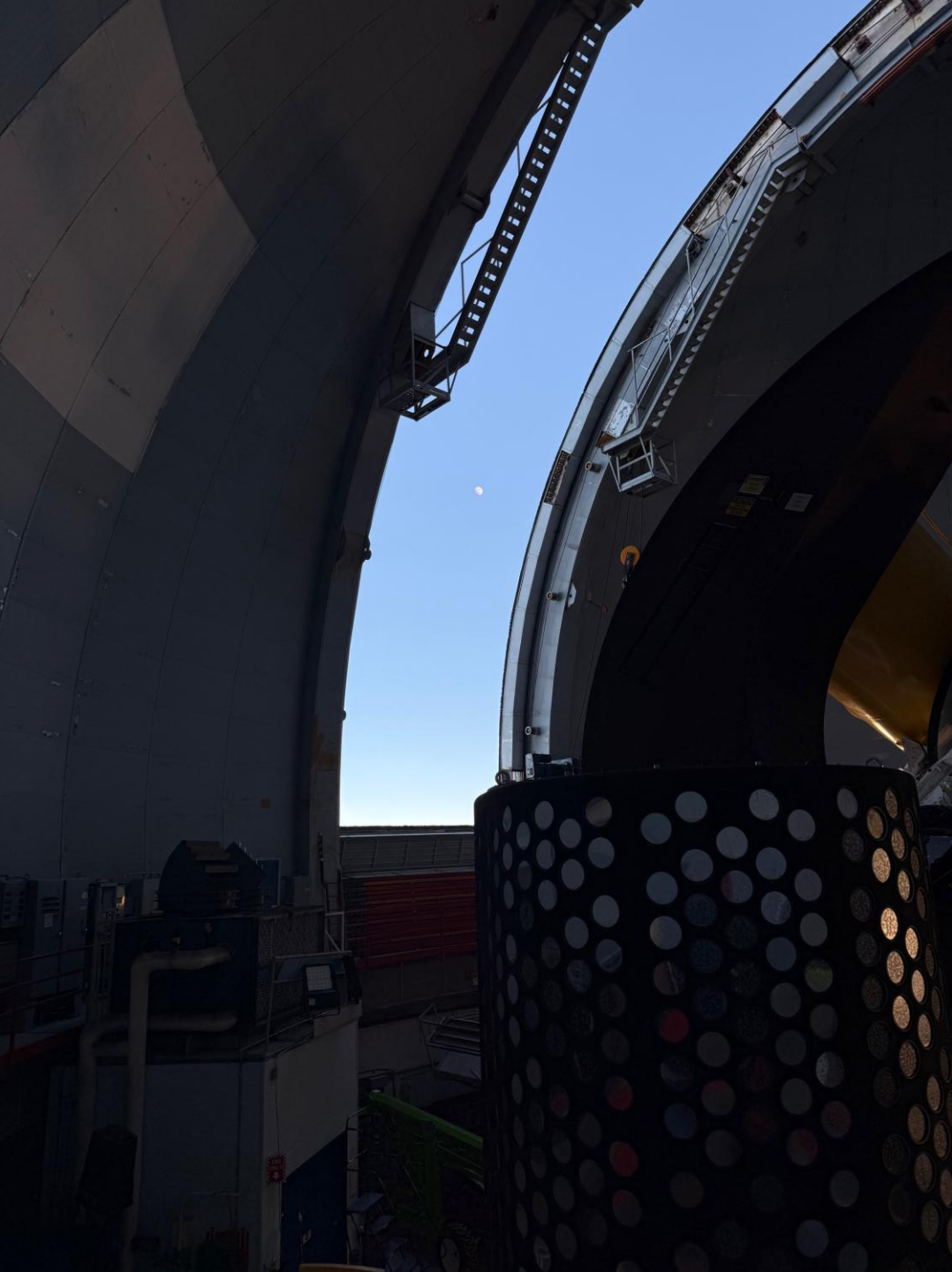
Awardee Tosta said in a statement that she's excited about the opportunity. "I want to be an astrophysicist one day, so this is another step in my journey toward that goal," Tosta said.

Mary Beth Laychak, Maunakea Scholars coordinator at UH's Institute for Astronomy, said that in addition to mentoring Rexford for several years, she is proud of the awardees that the program will soon host.

"I know of six alumni who are either working in Maunakea astronomy or continuing their education in the field. That's in addition to many others working in education, engineering, and computer science," Laychak said in a statement. "I can't wait to see what these students do moving forward."



Last Spring at Waipahu High School



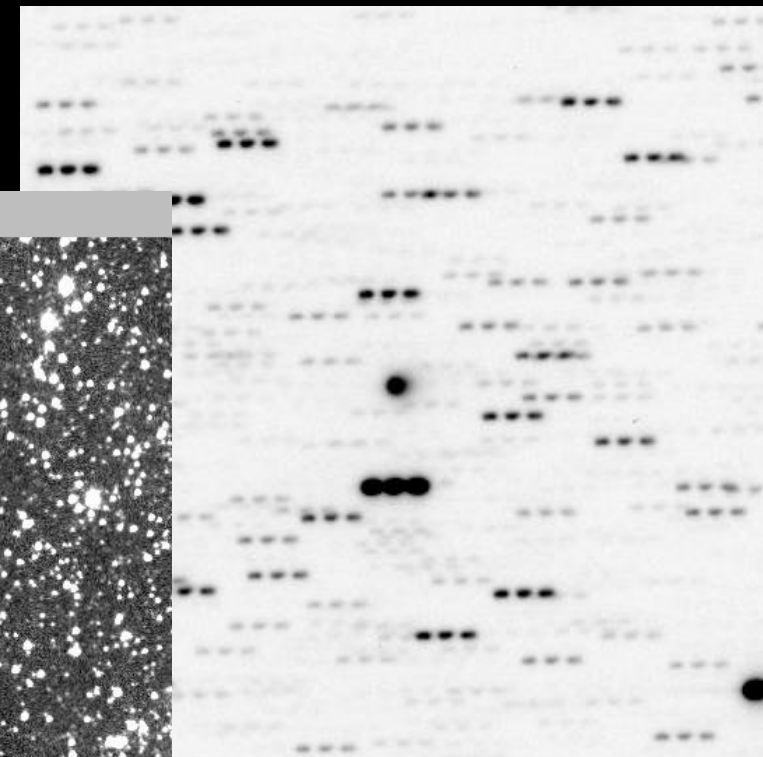
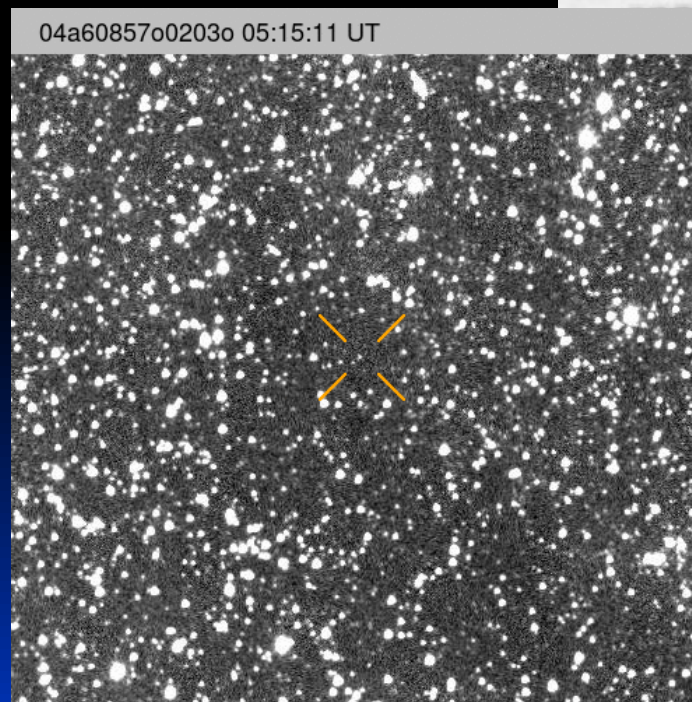
IfA In the News



3rd Known Interstellar Object Identified by ATLAS Chile

Comet C/2025 N1 (ATLAS), a.k.a. **3I/ATLAS** detected by ATLAS Chile on July 1

- ✱ Many Hawai'i facilities involved in follow-up observations
 - ✱ Maui: ATLAS Haleakalā; Faulkes Telescope North; Las Cumbres Observatory (Haleakalā node)
 - ✱ Hawai'i Island: CFHT, Keck, IRTF, JCMT, ATLAS Maunaloa, UH88
- ✱ Orbital eccentricity calculated at ~ 6.1
 - ✱ Previous highest eccentricity: 3.4 (2I/Borisov)
- ✱ Many IfA connections with the discovery and follow-up including: **Larry Denneau, John Tonry, Andrew Hoffman, Willem Hoogendam, Mark Huber, Karen Meech, Ben Shappee, Robert Siverd, Richard Wainscoat, Rob Weryk, Kyle Hart, Jason Hinkle and Mike Connelley**



Stacked composite
CFHT image, taken
July 2

Weryk & Wainscoat



IfA Highlights – UH News, research notes, etc.

2025 February 2: UH telescope discovers historic asteroid that may strike the Earth in 2032

ATLAS Chile detected **2024 YR4** on December 27; classified as “Torino Scale 3”:

“A close encounter, meriting attention by astronomers. Current calculations give a 1% or greater chance of collision capable of localized destruction. Most likely, new telescopic observations will lead to re-assignment to Level 0. Attention by public and by public officials is merited if the encounter is less than a decade away”

 UNIVERSITY of HAWAI'I® NEWS

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UH telescope discovers historic asteroid that may strike the Earth in 2032

[UH News](#) » [Research](#) » UH telescope discovers historic...

📅 February 2, 2025 👤 [UH News](#)

Reading time: 2 minutes



Illustration of a small asteroid moving past Earth (Image credit: Space.com)

A University of Hawai'i-operated telescope has discovered a fairly large asteroid that may impact the Earth. The historic asteroid, 2024 YR4, was first detected by UH's [Asteroid Terrestrial-Impact Last Alert System](#) (ATLAS) in December 2024 as it flew past the Earth. Estimated to be the size of a 20-story building, the asteroid is currently 27 million miles away and returns to Earth's vicinity every 4 years. While it is

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✕ f i y t u

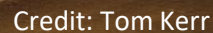
Most Popular

 President Hensel addresses federal policy changes, reaffirms commitment to community

 UH President

Strategic Planning







On-going Advocacy to Support Funding for Astronomy/Science

- ✳️ Proposed FY2026 budgets: direct impacts to Hawai'i astronomy facilities
 - ★ John O'Meara (Deputy Director & Chief Scientist, Keck): "The proposed cut could result in staff reductions, loss of research capacity, fewer ancillary contracts for local vendors, potentially limit public data access, and reduce Keck Observatory's ability to operate education and outreach programs."
- ✳️ At UH, Federal cuts amount to >\$100M reductions in funding across many programs, including Minority-Serving Institution (MSI) grant programs (Native Hawaiian & Pacific Islander)
- ✳️ At IfA, primary impact has been a slowdown in approved grant funds flowing into UH accounts

Star-Advertiser FRIDAY 6/27/25

What do you think of Hawaii's astronomy future, given proposed budget cuts to NASA and the National Science Foundation?

July 1, 2025

A. Very concerning, dire situation (422 Votes)

C. OK with cuts, don't see alarm (101 Votes)

B. Lamentable but recoverable (93 Votes)

This is not a scientific poll — results reflect only the opinions of those

OUR VIEW
BUDGET CUTS
Tenuous time for isle astronomy

Hawaii's significant contribution to science, particularly those discoveries made through telescope installations on two islands, is in peril if its part in the Trump administration's spending plan for the coming year goes through as written.

On another front, a slim hope glimmers: There has been an easing in tensions between the state's astronomy enterprise and the Native Hawaiian community, with two lawsuits challenging the management of Mauna Kea's scientific campus being dropped. This means that the foundation for the future could be strengthened over the long term.

First, the immediate crisis must be averted. Changes in federal policy have rung alarm bells more broadly across the scientific community, affecting aspects from vaccine recommendations to climate-change mitigation.

However, it's the steep proposed reduction in spending on NASA priorities and the National Science Foundation's investments in telescopes and research that could deliver the most immediate impact, effects that will be difficult to reverse.

This will affect a wider constituency than even the full range of scientists and staffers directly engaged in the work, many of whom could lose their jobs and programs. Astronomy, in particular the work pursued in the campus of telescopes on the Mauna Kea summit, provides an educational focus for Hawaii island students and an infusion to the state's economy.

The funding loss also could cost Hawaii its global edge in the field, said John O'Meara, deputy director and chief scientist of the W. M. Keck Observatory at Mauna Kea. O'Meara, along with Doug Simons, director of the University of Hawaii Institute for Astronomy, laid out their deep concerns in a meeting with the Honolulu Star-Advertiser editorial board last week.

He said scientists already had been dealt a blow with the recent news that the NSF had decided to focus its attention on the planned Giant Magellan Telescope in Chile, striking the proposed Thirty Meter Telescope in Hawaii, and the proposed Thirty Meter Telescope in Chile, striking the proposed Thirty Meter Telescope in Hawaii.

Then on May 30, the Trump administration released its proposed fiscal 2026 budget with worse news: a 47% budget cut from NASA's Science Mission Directorate and a 55% reduction from the NSF.

That leaves the roughly 600 people in astronomy on the Big Island, which also hosts the Gemini Observatory, feeling very nervous. There are also the contracts for local vendors, part of an important economic ecosystem.

In total, Hawaii's observatories support more than 1,000 local jobs, O'Meara said. They also include those at the Daniel K. Inoué Solar Telescope atop Maui's Haleakala. This is a new, \$400 million installation that is facing a 30% cut that would essentially terminate it.

It is clear, of course, that the state leadership should have advocated more strongly for projects such as TMT, and that the priorities placed on astronomy at the local level should have been strengthened. And some hard decisions do need to be made in these fiscally strained times.

But reductions should be executed much more strategically. An approach that employs an as either than a chisel in this effort is irrationally shortsighted, yielding actions that make no practical sense.

Looking forward, it is at least encouraging to see that not everything needs to be so adversarial. The Office of Hawaiian Affairs last week signaled a welcome shift in outlook on the stewardship of Mauna Kea's cultural resources, withdrawing two lawsuits that had targeted state agencies and UH for mismanagement and had challenged the formation of a new Mauna Kea authority as unconstitutional.

Instead, OHA stated its intent to seek partnership and shared responsibility for the mountain. Balancing scientific and culture pursuits would be a good outcome, assuming the science can be sustained.

Advocates for astronomy need to make the strong case for saving it, before Congress enables a tragically backward step for global science and Hawaii.

UH News, 2025-06-10: <https://www.hawaii.edu/news/2025/06/10/uh-astronomy-faces-massive-budget-cuts/>

Honolulu Star-Advertiser, 2025-06-27: <https://www.staradvertiser.com/2025/06/27/hawaii-news/astronomers-concerned-by-federal-cuts/>



UH/IfA – Japan Collaboration Meetings

- ✳ Discussions are on-going between UH leadership, U. Tokyo, NAOJ about various forms of collaboration that may be of mutual interest
 - ✳ Technology development, student exchange, etc.
- ✳ UH Space Science and Engineering Initiative an important part of these meetings, but expanding into other areas of research and education
- ✳ Building off long standing fruitful collaborations with the Japanese astronomy community...



UH/IfA – Japan Collaboration Meetings



Meetings in Tokyo, March 2025

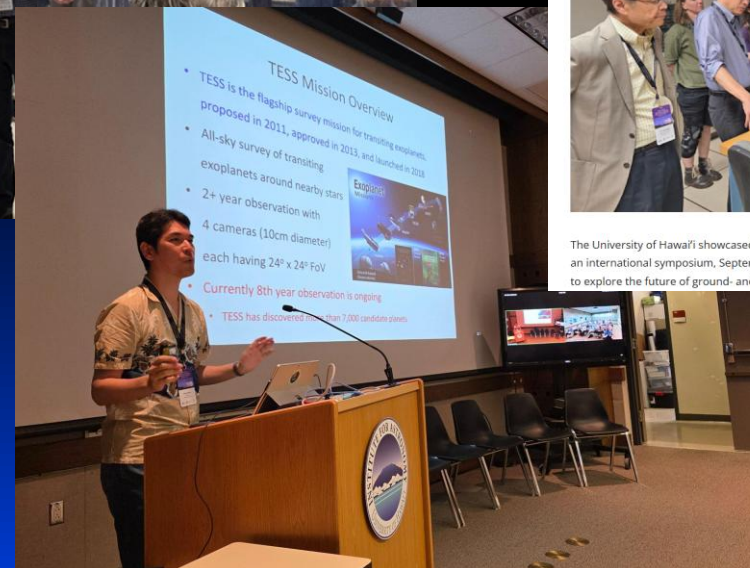


“Space Science Takes Center Stage at UH International Symposium”





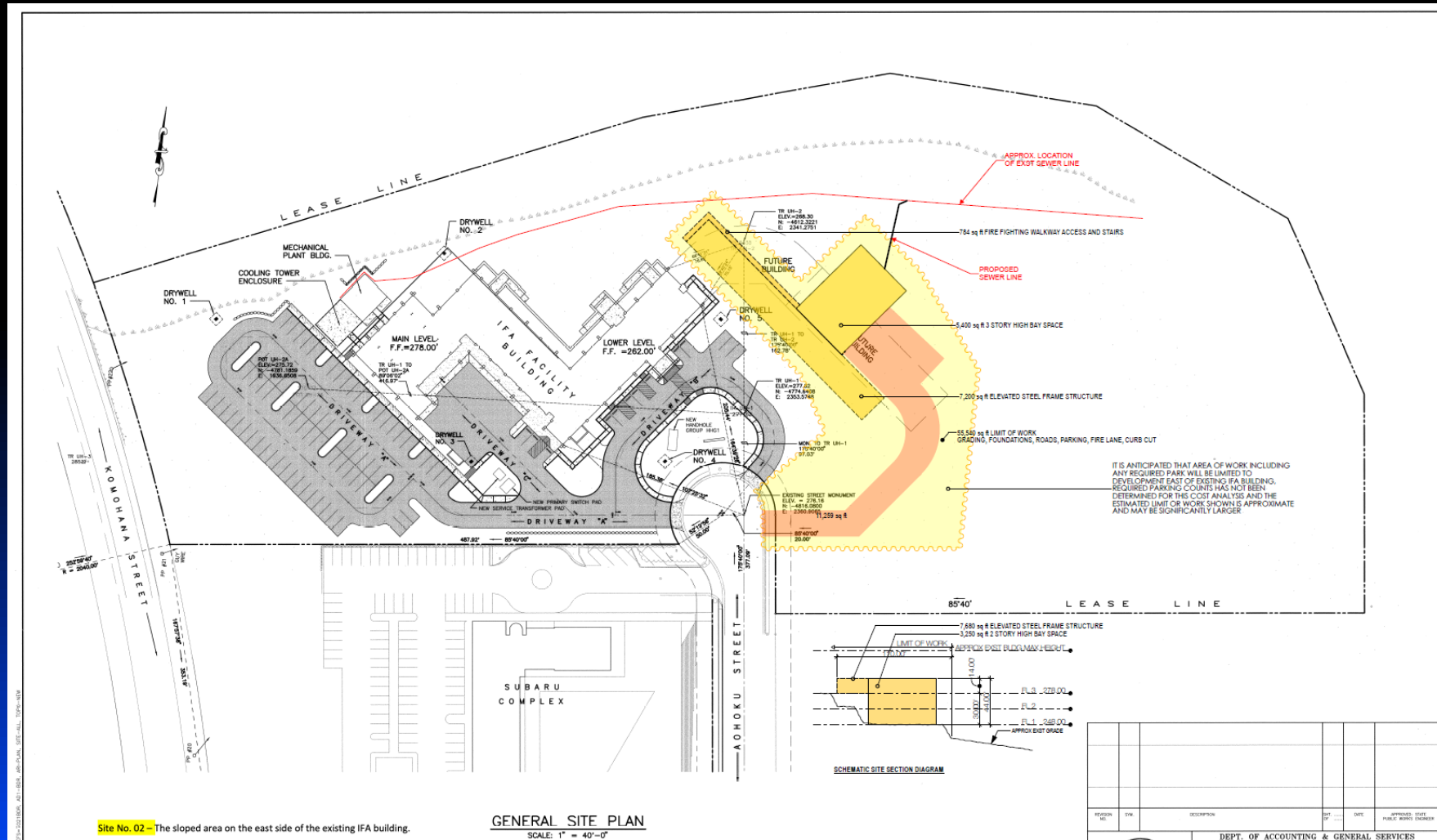
“Space Science Takes Center Stage at UH International Symposium”



UH News, 2025-09-30: <https://www.hawaii.edu/news/2025/09/30/space-science-symposium/>



Proposed New SSEI Building Next to IfA-Hilo





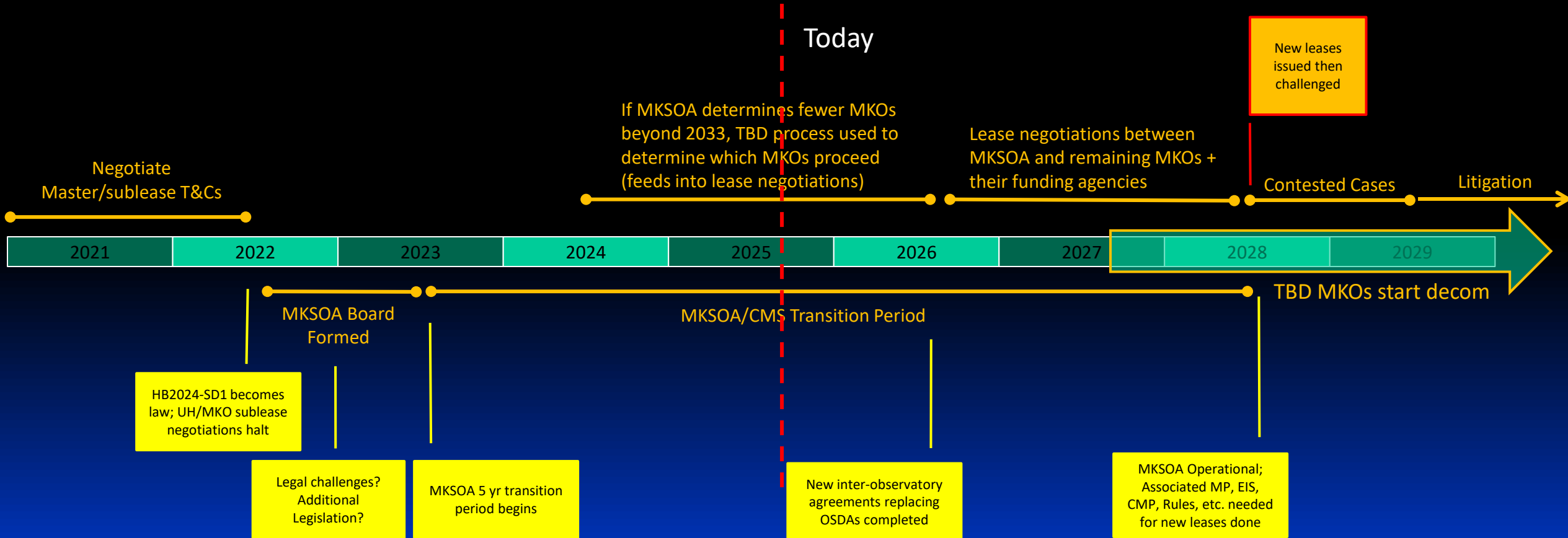
Various Issues Ahead in the UH → MKSOA Transition

PENDING ISSUES KEY TO MKSOA'S MANAGEMENT PLAN AND TIMELINE		
How does MKSOA hold its property interest?*	Conservation district oversight (HRS 183C)*	LUC authorities (HRS 205)**
CDUP Transfers*	Leasing criteria and process (HRS 171)**	EIS Requirements*
Utilization of UH plans and rules*	MKSOA Organization (Structure, RCUH, Advisory Groups, etc.)	Astronomy as a policy of the State (What does this look like on the ground? What is the role of UH/IfA?)
Staff, Asset, Liability Transfers**	Move IfA from UHM to UHH**	Other (N=?)

Table Courtesy Greg Chun



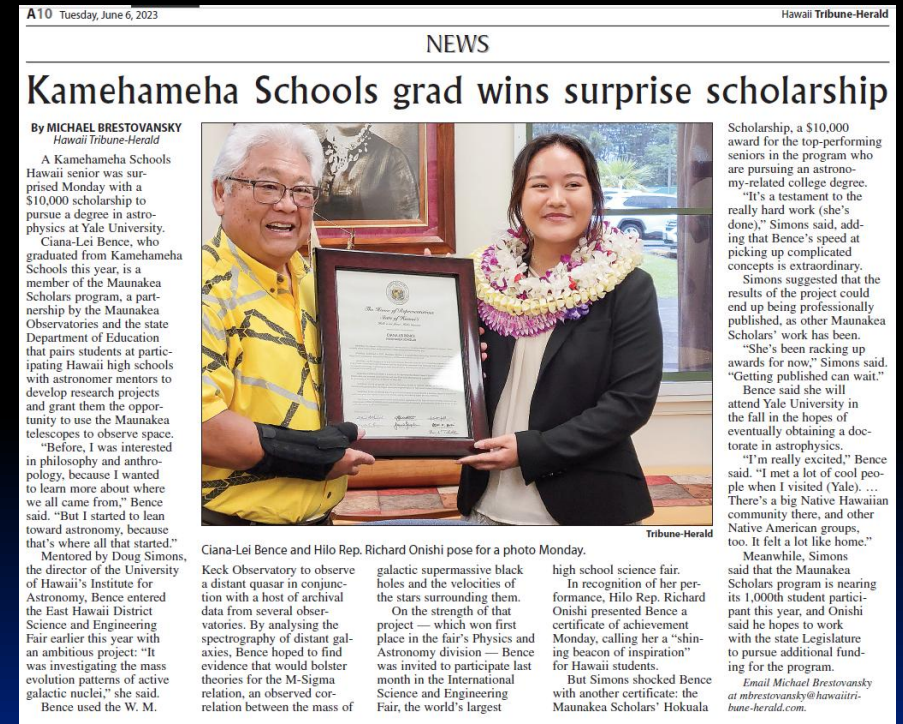
Today - Some Key Schedule Milestones Under the UH → MKSOA Transition





IfA's Evolving Mission

- ✱ Various initiatives reflect evolution and growth at IfA, as we plan a future grounded in education, research, technology, and community
 - ★ Hiring 10 new IfA faculty plus 8 collaborating on new Space Science & Engineering (SSEI) faculty
 - ★ IfA as a Native Hawaiian Place of Learning, with an emphasis on local student support and engagement
 - ★ Launching new SSEI building adjacent to IfA-Hilo to increase capacity for tech-dev, instrumentation, education, internships
 - ★ Engineering degree pathway at UH Hilo, substantially enabled via IfA
- ✱ *Despite uncertainties about Maunakea astronomy, IfA remains steadfast in building our capacity, supporting our community, and partnering via innovative programs focused on advancing the futures of our keiki (‘Imiloa, Ka Haka ‘Ula, Nāwahī, UHH engineering, Maunakea Observatories, Akamai Internships, Maunakea Scholars, etc.)*





Mahalo

