## COMMUNITY

## Take a tour of the 'Cool Universe' with astronomer

major discoveries at talks of Mauna Kea. later this week in Waimea and Hilo.

p.m. on Thursday, June 18, astronomy," said Phillips. at the W.M. Keck Observatory Hualalai Learning The- is generated in a variety of Saturday, June 20, in Hilo dusty interstellar clouds. at the 'Imiloa Astronomy These cold regions are the Center. Both talks are part targets of various astronomof the June 2009 Directors' ical studies, including star Lecture Series. Seats are formation, evolution of the first-served basis.

Hear about "Explor- home in on this region of limeter telescopes need to proposal for the James long free lecture series to Streets at the UH-Hilo Sciing the Cool Universe" as the electromagnetic spec- be located at very high, dry Clerk Maxwell Telescope. commemorate the Interna- ence and Technology Park. Thomas Phillips, director of trum. He, along with Rob- sites, such as near the sum- In 1979 he joined the fac- tional Year of Astronomy For more information, go to the Caltech Submillimeter ert Leighton, initiated the mit of Mauna Kea. Observatory, gives a history project to design the 10.4 of the observatory's tele-meter Leighton telescope of submillimeter detectors, took on the task of construc- its contributions to society information, or 969-9703. scope and reviews its recent which sits near the summit combined with the availabil- tion of the Owens Valley and culture, with events

pioneering observatories astronomy being one of the as associate director of the Hilo lectures take place at Highway in Waimea. Keck The programs will be at 7 dedicated to submillimeter newest and least explored observatory. In 1982 he 'Imiloa Astronomy Center's Observatory operates twin

Submillimeter radiation Phillips. The Caltech Submilli- and evolution of stars, galinfrared and short-wave decades because water vapor astronomy. radio regions. Phillips will in the Earth's atmosphere

ater in Waimea and again on regions, including very cold, B.A., M.A. and Ph.D. 1986, on successful comdegrees at Oxford Univer- pletion of the construction, program replaces the cen- advanced instrumentation sity in England. His gradu- became director. ate studies were in low temperatures physics. After one the Joseph Weber award of which will resume in 2010. resolution spectrographs,

discuss the intricate details strongly absorbs submil- at London University as wave detection. necessary to design the limeter radiation. Because University Reader in Physdetectors that are able to of this absorption, submil- ics where he wrote the first is the sixth in this year- off Komohana and Nowelo keckobservatory.org.

Phillips received his meter Observatory, and in month during 2009.

year at Stanford University the American Astronomical opment of superconducting advancing

ulty of Caltech as professor (IYA 2009), a global cel- www.imiloahawaii.org or "The new technology of physics. At Caltech he ebration of astronomy and call 969-9700 for recorded ity of high-altitude sites, has Radio Observatory milli- taking place in cities and vatory headquarters facility "The CSO is one of the resulted in submillimeter meter wave interferometer, towns across the globe. The is at 65-1120 Mamalahoa areas of astronomy," said became director designate 120-seat planetarium on 10-meter optical/infrared for the Caltech Submilli- the third Saturday of each telescopes on the summit of

> ter's monthly "Maunakea including imagers, multi-In 2004, Phillips received Skies" planetarium talks, object spectrographs, high-

available on a first-come, interstellar medium, forma- he moved to Bell Tele- Society and also became the celebrates both Hawai- and a world-leading lasertion of planetary systems phone Laboratories Phys- Altair Professor of Phys- ian culture and Mauna guide-star adaptive optics ics Research laboratory at ics at Caltech. His current Kea astronomy. Through system. meter Observatory (CSO) axies and the universe. But, Murray Hill, N.J. There he research interests are in its exhibits and program, first looked skyward in the ability to detect sub- developed techniques for molecular and atomic spec- 'Imiloa strives to share ated as a scientific partner-1986 searching for light millimeter waves has been millimeter and submilli- troscopy of the interstellar inspiring examples of scithat borders between far- developed only in recent meter wave detection for medium and in the devel- ence and culture together In 1975 he spent a year devices for submillimeter understanding and opportu- NASA. nity. The center is located at Phillips' presentation 600 'Imiloa Place in Hilo, call 885-7887 or visit www.

The W.M. Keck Obser-Mauna Kea. The two tele-This special year-long scopes feature a suite of Opened in 2006, 'Imiloa integral-field spectrographs

> The observatory is opership among the California Institute of Technology, the knowledge. University of California and

> > For information, please