THE PHILIPPINE CULLEGIAN

Rev. F. Miguel Selga, S. J., Delivers A Most Interesting Scientific Address

Mr. President:

During my seven years of service to the Government it has been my privilege to be associated, both here in Manila and in the provinces, with many students of the University of the Philippines, and truth compels me to repeat that I have always found them good, honest, ambitious, faithful to the Christian principles and loyal to the ideals of the University. When you invited me to explain to the student body the organization and activities of the Weather Bureau, I felt highly honored and exceedingly pleased; highly honored, the invitation coming from the highest authority of the University; exceedingly pleased, having the opportunity to speak to my friends.

DIVISIONS OF THE WEATHER BUREAU

The present organization of the Weather Bureau embrace's four divisions.

First the Magnetic Division for the study of magnetic currents and their variations, of great importance to the aeronauts and navigators for their compasses and their charts. Prior to 1905 the headquarters of the magnetic instruments were in pavid Gill has said; nothing which to all the telegraph stations all over- popular Manila, but when the Meralco began to operate the trolley car system, the artificial electric currents that interfered with the cosmic action of the magnets made the transfer of the instruments to Antipolo an absolute necessity. There on a hill about a mile away from the center of the town, in a dark room specially fitted for magnetic observations, the magnetic instruments are recording day and night the small variations of the largest telescope in the Far East, a magnetic components, to be com- 20" refractor, is pointed to the sky, Indian Ocean to the west of the Philmunicated monthly to the scientific to fix the position of comets, to deter- ippines, any vessel can listen in and world as Philippine contribution to mine the contacts of eclipses, to pick up the time signals of Manila international magnetism.

mological stations of Guam, Butuas, photometric measures of variable

and night, in a vivid silent way, by the recording pens of the Manila seismographs. At the very moment that blocks of houses were collapsing under the great stress of the San Francisco earthquake, before the telegraph and cable combined brought to Manila the news of the great world-disasters at Valparaiso in 1906, at Messina in 1908, at Coquimbo on November 11, 1922 the seismographs of the Manila Observatory were spasmodically and sinchronically echoing the cataclysm, centered 14,000 kilometers away. Only 11 years ago, immediately before the eruption of the Taal Volcano, which destroyed the barrios of Quilot and Bugaan and brought about the death of 1300 people, the Vicentini seismograph of the Manila Observatory astonished the world with a record of 995 earthquakes in the short period of 11 hours.

IMPORTANCE OF ASTRONOMY

few yards away from the University pelage are withdrawn from commer- Philippi Hall, stands that mysterious rotating cial use and connected with the ples w dome, the palace of Astronomy. master clock of the Observatory, taste to There is no subject which appeals which automatically closes and opens altruist more strongly to the imagination the electric circuit and send its ryth- research than that of Astronomy, as Sir mical tick, tick, every second, lifts men to a higher plane of the islands, giving to every citizen of the thought or gives them a better grasp in the community the opportunity of relogica of the infinite power of the Creator; checking the time of their docks. nothing that exemplifies more completely the unity of design that exists in the Universe; nothing that teaches more emphatically the Christian lesson of humility and yet, at the same time, affords the highest proof of the intellectual possibilities open to man. From that dome, the Seismology is the activity of our planets, to measure the relative dis-vite Radio Towers twice a day, second division: its object, the vol- tance of double stars. To the Ma- minutes to 11 a. m. and 5 minutes conces and seismic centers of our nila telescope an appeal has been islands: its territory, the net of seis- made by the Harvard Observatory for

means of the transit instrument, as- to 10 p. certaining hereby the correct time for Adelaide Archipelago. Correct a Londo whole time is required from the Manila Manila Observatory by the Manila Railroad heard l Company for the dispatch of their Southern trains; correct time is sought at the mision : Observatory by the vessel-masters River s and navigators, who bring their China, t chronometers to be adjusted and signals rated; correct time is requested by Tientsin the survey parties of the Bureau of mittee Lands, by the hydrographers of the announce Coast and Geodetic Survey and sev- wors s eral times by cable from Guam for transmit the American and Japanese warships out rela and destroyers; correct time is trans- scientification mitted to and shown by the time ernment ball that drops automatically just at and loca the very noon every day from the Kenzie l top of the Observatory mast, thus ness of giving a time-check to the vessels miles as anchored in the Bay and bringing help ou te all offices the welcome news mical through the Cold Storage whistle lines. that it is time to quit work and go Cavite t out for lunch. Every day, without mical of exception, no matter whether July our lar fourth or Thanksgiving day, five queta to minutes to eleven o'clock in the problem morning, a solemn moment-all the emergin Opposite to us, across the campus, telegraph wires of the whole Archi- ision ha

> OUR ASTRONOMICAL OBSERVA-TIONS GOOD PHILIPPINE PROPAGANDA

The dreams of our forefathers have been lately realized; electrical conditions being normal, anywhere in the vast expansion of the Pacific to the East or at any place in the study the surface-changes of the Observatory broad-casted by the Ca-

division tologica second,

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We regard curious in time I will I It has weather product

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