The Sentinel

## Local Scientists Report On Light Speed

speed of light as obtained by optical methods now in use has come Observatory, Dr. Miller estimated to the notice of the world of the delay of visible light reflected science.

Society of America.

periments using the radio frequen-stellar spaces are calculated by it cy (microwave) method have ar- in light years. rived at the value of 299,792.5 km/

values is possibly due to faulty conclusions from measurements in the optical system and could come from overlooking the time lost by reflection.

It is recalled that reflection from mirror surfaces cannot be instantaneous, such as from mathematical surfaces. Each reflecting surface used in an experiment causes a slowing of the velocity of

from and return to the rotating sistant read the decree declaring mirrors for the light beam, inter-Elizabeth Seton "tenerable". poses thirteen reflecting surfaces into the path of the beam. Their formal proclamation of a person light velocity value comes 19 km. as "venerable" is one of the first short of the presently accepted approximate velocity and as "venerable" is one of the first but major steps in the long church proximate value of 299,793 km/sec. process toward sainthood

reduced to zero. This takes time. elaborate.

To start again from zero and reach the original light speed in the opposite direction also takes times.

A recent observation and suggestion of two scientists here for the correction of the value of the specific three times. This is time lost, and should be recognized in the final value arrived at in the experiment, Fr. the correction of the value of the specific times.

In the calculations at the Manila from a silver mirror and for that This was revealed yesterday by it could account for the difference between the early optical and the recent microwave determination of at the Mirador Hill, this city.

Fr. Richard A. Miller, S.J., head of the solar division of the Manila observatory, and Fr. Adolf Lopez, both electrons in reflection of S.J., physicist of Bellarmine College of this city, have reported on faces. An individual electrons is their calculations in the September, 1959 Journal of the Optical coming light wave and remite the ber, 1959 Journal of the Optical coming light wave and remits the energy after an interval of time.

A resume of this is printed in the Science News Letter of Novem-faster than light, scientists have taken it as an unchanging figure Fr. Hennessey said attempts to in their calculations. Einsten's attain the greatest accuracy for theory of Relativity is based on this the value of the speed of light have constant and the measurements of been made than one method. Ex- distances in the vastness of inter-

Any approach to a refinement of methods used to arrive at an ex-Optical method experiments, act figure for the speed of light using reflecting mirrors, report an is a welcome help to the scientific It would seem, Fr. Hennessey come from the Philippines, observed, that the 14 km/sec. or Hennessey stated greater discrepancy between approximate value of 299,778 km/ world. We are happy that this has Philippines,

## Pope Declares. (Continued from page 2)

houses for women and a cancer research clinic.

They are represented in several dioceses of the U.S. and they undertook mission work in the Diocese of Wuchang, China.

Mother Seton was a Roman Catholic convert. She died in 1821. Three American cardinals, in-

the beam of light.

Pease and Person's apparatus, between the time of departure with the Pope while a papal as-

Attention is called to the fact Usually it is made in the Pope's that when light changes its direc- presence but in ceremonies of strict tion especially when it turns back private character. This time the on itself, its tremendous speed is ceremonies were more public and