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Rossini, F. D., THERMODYNAMICS & PHYSICS OF MATTER (Vol. 1 of Aerodynamics & Jet Propulsion) (Princeton, \$15)

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Alumni Picnic

THE OCEANARIUM at Marineland of the Pacific will be the feature attraction of the Annual Picnic on Saturday, June 25. Located on Palos Verdes Drive South between historic San Vicente Lighthouse and Wayfarer's Chapel, commonly called the glass church, Marineland offers a snack bar for refreshments, and luncheon or dinner at the smart Marineland Restaurant on the cliff. You can bring the family and stay all day for they are now constructing a seaside picnic area on the point where we intend to set up headquarters for the Alumni Picnic.

The day is planned and budgeted to appeal to the entire family. The feature attraction is the marine zoo which never fails to fascinate young and old for several hours, and we qualify for the reduced group admission rate and the privilege of re-entry. Families may bring their own lunch, beer, soda pop, and whatever else

Trained porpoises, which jump high out of the water to take food from their feeder's hand are the stars of the Marineland show.

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they wish for their enjoyment; or if they prefer, they can take advantage of the restaurant facilities of Marineland. The details will be covered in the reservation bulletin to be mailed out to all alums late in May.

The Oceanarium is constructed of steel and finished in gunite, like a giant swimming pool. Holding over 1,000,000 gallons of sea water, the Oceanarium includes two tanks, one circular, 80 feet in diameter and 22 feet deep, and an oval tank 100x50x22.

Through viewing windows at three different levels, spectators may view formidable sharks, Moray eels, playful porpoises, sun fish, varieties of bat rays, sting rays, eagle and electric rays, giant sea turtles, kingsized groupers and hundreds of colorful species engaged in their dramatic struggle for survival in an immense dry land ocean. Marineland of the Pacific and its Florida counterpart, Marine Studios, differ from other aquaria in that the specimens are not segregated but placed together as they are found in the ocean.

Stars of the Marineland show are Frankie and Floyd, the trained porpoises which jump high out of the water and take their food from the feeder's hand. These clever mammals are amazingly intelligent and delight in performing for the amusement of their audience. The porpoises find the sea bass a delicacy and will tease the sharks into nervous breakdowns. The night-preying Moray eels and the game tuna and dolphin fish decimate the schools of mackerel and sardines, while the rays, giant groupers and sharks carry on the eternal fight for existence.

Invading the eerie aquatic world, Marineland divers descend to the Oceanarium floor. Looking like men from Mars in their diving suits and grotesque helmets, they bob about the tank feeding specimens by hand. The individual feeding method is designed to restrain the predatory instincts of the fish and thus prolong their life span. The mortality rate is still sufficiently high to keep the Marineland collecting crews busy bringing in fresh replacements.

Special jewel aquariums feature colorful displays of sea horses from Florida, California lobsters, Hawaiian fish, octopi, deep sea anemones, lion fish from the Indian Ocean, and tide pool collections.

RESERVE THE DATE—Saturday, June 5! —Edward P. Fleischer, '43 Chairman, Annual Picnic



