# The Botanical Examiner

University of California Davis Center For Plant Diversity

## TO GATHER PLANTS.

Hints to Amateur Botanists Offered by the Smithsonian Institution.

WHAT SPECIMENS TO COLLECT

The Tools One Needs-Portfolios and Press

Written for The Evening Star.
T THIS SEASON OF THE YEAR ROmantic damsels, unaccompanied by swains, of interest, wander along the shore of the loud sounding sea and gather sea weeds for pressing Harvests of beautiful specimens are afforded by tangled masses of eel grass thrown up of by tangled masses of eel grass thrown up or the beach by storms, or they may be profitably gathered between tides from uncovered rocks and in the tide pools. A gentle maiden's hands, however, are ill adapted to the rougher work of this sort, and so the algo hunting virgin who is not foolish provides herself with a shallow net six or eight inches in diameter on the end of a stout rod.

TREATMENT OF THE WEEDS. If the seaweeds are of a fleshy or slim rowth they should be exposed to the air for thile before one tries to mount them. I

OLD IN CHRIST'S BOYHOOD. Newly Found Sequoia Gigantea Dates

# A HUNDRED YEARS OF HEAD-LINES HIDDEN IN HERBARIA

by Allyson Ayalon, Daniel McNair, and Ellen Dean

## UC Botanists Press Plants in Newspaper—Document **Plant Diversity!**

Around the world, millions of flattened, dried plants are stored within herbaria, scientific museums that document the world's flora. Often associated with universities, botanic gardens and natural history museums, herbaria have played a central role in botany since the 16th century. Today, herbarium specimens are a resource for studies in genetics, ecology, evolution, and population biology, among other disciplines. They are crucial for documenting plant diversity and protecting endangered species as well as for documenting the spread of invasive species.

For over 150 years, botanists have been using newspapers to collect plant specimens. The freshly collected plants are placed inside newspapers, which are then placed between blotter papers and cardboard inside a plant press. Understandably, these newspapers are usually regarded as unimportant compared to the specimens they hold. Collections sometimes sit in herbaria for decades before the mounting process is completed and the newspapers are discarded, but it turns out that the newspapers have unexpected value.

Recent curatorial projects at the UC Davis Center for Plant Diversity have revealed newspapers dating from 20 to 100 years old depicting what was once headline news in our society. These newspapers illustrate how our attitudes towards major issues such as sexuality and gender, science and technology, and even the food we eat (or used to eat) every day has changed. Many of the newspapers such as *The San Francisco* Chronicle, The Sacramento Bee, The New York Times, and other news journals, still exist today.

#### The Importance of Newspapers in the Curation process

At the time a specimen is pressed, botanists often write a number or a date on the newspaper holding the specimen. Ideally, this notation on the newspaper matches an entry in a collector's notebook which can be used to make a label for the specimen. However, detailed notes are often lacking, and the only clue to the origin of the pressed specimen inside the newspaper is the newspaper itself (one of the reasons it can take 50 to 100 years for specimens to be curated). The curator scans the newspaper for a publication date and knows that the specimen had to have been collected after that publication





A Living

upting to raise funds to buy this area, which then

date, but how long after? A day, a week, a month, a year? If the newspaper is a local paper, was the specimen collected near the location where the newspaper was published? In the same state? Near the city? Then the handwritten phrases provided by the collector are scanned. Phrases such as "Green Mountains," "scree field" or "found with Quercus kelloggii" help us know more about the specimen's geography and ecology. A reasonable guess as to date and place can be made based on the newspaper's publication date and origin, as well as the collector's handwritten notes. Then if field notebooks exist, more information can be found. It is a giant, time-consuming curation puzzle!

# The Implications of Shrinking Newspapers

With the increasing rarity of printed newspaper, as media is primarily received through digital outlets, the future of using newspaper for an age-old tradition in botany is unknown. Newspaper size has varied considerably over the past 100 years, with a folded newspaper from 1900 averaging 11 by 17 inches and one from 2016 averaging 11 by 11 inches. The optimal folded newspaper size for pressing herbarium specimens is 11 inches by 13 inches; a specimen pressed within these dimensions is perfect for mounting onto herbarium paper that is 11 inches by 17 inches. The dimensions of most 2016 newspapers have already shrunk below that needed for pressing plants with the exception of the British paper, Financial Times, which is the preferred newspaper used at the Center for Plant Diversity.

# Newspaper Exhibit Honors Botanists' Work

Premiering at The UC Davis Center for Plant Diversity's annual Botanical Tea, and returning later at the UC Davis Picnic Day, we have brought together newspapers from the collections of several researchers including: June McCaskill (Curator of the UC Davis Center for Plant Diversity from 1953 to 1991), whose personal collection of amusing newspaper clippings reflects the role of plants in our changing society; G. Ledyard Stebbins (Professor of plant evolutionary biology and genetics at UC Berkeley and UC Davis), whose large collection spanning more than fifty years, has contributed several of our most notable headlines; Jack Major (Professor and high-elevation vegetation ecologist at UC Davis from 1955 to 1981), whose back-pack-sized specimen newspapers will be on display; and Harold Olmo (Professor of viticulture at UC Davis from 1938 to 1977), whose pre-prohibition era wine grape specimens are housed at our herbarium. The exhibit is entitled "Herbarium Specimen Newspapers: A Botanist's Newsfeed for the 20th Century."



# Stebbins To Speak At Sigma Xi

G. Ledyard Stebbins. professor of genetics, will speak at the Society of Sigma Xi meeting October 14 at 8 p.m. in 106 Wellman.

Stebbins' topic Research on 'Current Evolution in Higher Plants: Challenges and Prospects." For further info, contact OFFICE OF PUBLIC AFFAIRS£ 752-



A BLOOD-SUCKING PLANT.

Strange Vegetable Growth Found in Central American Swamps.

New Orleans Letter.

Leroy Dunstan, the well-known naturalist of this city, who has recently returned from Central America, where he had spent nearly two years in the study of the flora and fauna of the country, relates the finding of a singular growth in one of the swamps which surrounded the great lake of Nicaragua. He was engaged in hunting for botanical and etymological specimens in this swamp, which is known as San Sebastian's, when he heard his dog cry out as if in agony from a distance. Running to the spot from which the animal's cries came, tlan's, when he heard his dog cry out as it in agony from a distance. Ruuning to the spot from which the animal's cries came, Mr. Dunstan found him enveloped in a perfect network of what seemed to be a fine, rope-like tissue of roots or fibers, the nature of which was unknown to him. The plant or vine seemed composed entirely of here interlading stems, resembling

maturanst then saw that the dog's body was covered with blood while his hairless skin appeared to have been actually sucked or puckered in spots, and the animal staggered as if from weakness and exhaustion. In cutting the vine the twigs curled like living sinuous fingers about Mr. Dunstan's hand, and it required no slight force to free the member from its clinging clasp, which left the flesh red and blistered. The gum exuding from the vine was of a grayish dark tinge, remarkably adhesive and of a disagreeable animal odor, very powerful and nauseating to inhale.

The native servants who accompanied Mr. Dunstan manifested the greatest horror of the vine, which they call la sagenas de diable, the devil's seine or snare, and were full of stories of its death dealing powers. The plant is found only in low, wet places and usually beneath a large tree, and while dormant seems only a network of dry, dead vines covering the black earth for several feet, but coming into contact with anything will instantly begin to twist and twine up ward in a horrible, lifelike manner, breaking out with the gum-like substance spoken of before, and enwrap the object with a celerity that is almost incredible.

If the substance is animal the blood is drawn off and the carcase or refuse then dropped. A lump of raw meat being thrown it in the short time of five minutes the blood will be thoroughly drunk off and the mass thrown side. Its voracity is almost beyond belief, it devouring at one time more than ten pounds of meat, though it may be deprived of all food for weeks without any aparent loss of vitality. Mr. Dunstan, attempted to bring away a root of the sagenas, but it died during his return voyage, growing so foul with a strong odor of real animal corruption that he was obliged to get rid of it.

