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Telephone: 412-268-2434

Email: huntinst@andrew.cmu.edu Web site: www.huntbotanical.org

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### About the Institute

The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.

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La Redacción de la Revista Sudamericana de Botánica recibió, de su antiguo colaborador. Otto Degener, de la Universidad de Hawaii, la siguiente comunicación que mercee ser leída y observada, también en nuestro Continente. Se trata de un caso típico, desgraciadamente no muy raro, en ciertos países nuevos, de que el Gobierno, por intermedio de la Universidad u otra autoridad, publique, esteando la impresión, un trabajo "botánico", sin precouparse de los errores que contenga y de los efectos y consecuencias que tal obra produzca en los círculos científicos del país y del extranjero.

mean Miles Collins Miss Smargon

"HAWAII'S CROP PARADE", by David Livingston Chaw-

The writer fully realizes that it is hazardous for people living in glass houses to throw stones. Perhaps a book review should be written by some one who has never published anything and hence has never made an error, at least officially in print. Nevertheless, here, the hazard is accepted because of the unusual circumstances surrounding the case.

When a book under authorship of a university president appears, it is bound to attract attention. Hundreds, perhaps thousands, of copies find their places upon the shrine-like shelves of public libraries and schools among standard works of reference. The statements made in such books are accepted as authoritative, in fact, as Gospel Truth by the great majority of readers. They have usually been checked and rechecked by the author to reduce errors as far as humanly possible, in fairness to the implicit trust placed in such books by the feading public.

President David Livingston Crawford's "Hawaii's Crop Parade", an attractively bound book of 305 unillustrated pages appears at first glance to belong to such a library shrine. It deals chiefly with the introduced flora of the Islands, not with the native plants that bloom relatively unknown on our mountainsides. It concentrates on "A review of useful products derived from the soil in the Hawaiian Islands, past and present". After devoting 31 pages to "Agricultural Prospecting" and a very readable chapter to the "Historical

Journ. New York Bot. Gard. 25(299): 301. Nov. 1924.

301

Club at Rumson, N. J.: and Short Hills Garden Club, at Short Hill, N. J. He lectured on "Dahlias and Their Culture" before the Massachusetts Horticultural Society on September 13 and 14.

Aided by a grant from our Exploration Fund, Professor M. A. Chrysler of Rutgers College, spent part of August in western Cuba, prosecuting studies upon the Cycads of that region. He obtained for us plants of two native species of Zamia and of Microcycas calocoma; our esteemed correspondent, Dr. Juan T. Roig, Botanist of the Cuban Agricultural Experiment Station, gave him valued assistance. Returning north, Professor Chrysler obtained for us plants of two other species of Zamia in Florida.

Mr. Otto Degener, who is spending the year at the Botanical Garden, studying his collections of Hawaiian plants, addressed the Torrey Botanical Club on October 29 on "Plant Collecting in Hawaii." After graduation from the Massachusetts Agricultural College with the degree of B.S. in 1922, Mr. Degener made plant collections in the Canadian Rockies and on Mt. Rainier in Washington and then proceeded to Honolulu for a year's graduate work in botany and zoology at the University of Hawaii, from which he received the degree of M.S. in 1923. During that period he made collections on the islands of Oahu, Hawaii, Maui, and Kauai. During the past year he has been a graduate assistant in botany in the Massachusetts Agricultural College.

The following visiting botanists enrolled in the library during the summer: Miss Mabel A. Rice, Wheaton College, Mass.; Prof. N. M. Grier and class, Cold Spring Harbor, N. Y.; Professors H. M. Fitzpatrick, H. H. Whetzel, L. W. Sharp, and L. F. Randolph, Ithaca, N. Y.; Prof. Frank D. Kern, State College, Pa.; Messrs. John C. Wister and John M. Fogg, Jr., Philadelphia, Pa.; Dr. J. N. Rose, Prof. E. O. Wooton, Dr. W. T. Swingle, and Miss Anna E. Jenkins, Washington, D. C.; Prof. A. E. Waller, Columbus, Ohio; Prof. Bruce Fink, Oxford, Ohio; Dr. Earl E. Sherff, Chicago, Ill.; Mr. Willard N. Clute, Joliet, Ill.; Prof. John T. Buchholz, Fayetteville, Ark.; Prof. H. S. Reed, Riverside, Cal.; Mr. Chas. S. Parker, Seattle, Wash.; Prof. Harold L. Lyon, Honolulu, T. H.; Mr. Lawrence Ogilvie, Bermuda; Prof. P. A. Bourne and Mr. T. B. McClelland, Mayagüez, P.

Brown, Front Caurfac. Conf. 1927 R

440 PAN PACIFIC CONFERENCE: PROCEEDINGS

Arctic life zones, and varies in altitude from 8,000 to 12,000 feet. It is a region containing a very interesting flora and fauna. Selection of such areas involves the solution of several very important problems; and before such areas are set aside, there should be an exhaustive study made of all possibilities from both the scientific and administrative point of view. This is vitally necessary, because eventually there will be far more visitors in our national parks than there are to-day.

These few remarks have merely been for the purpose of introducing the subject of the reservation of natural areas for scientific study, an important project, not only in the natural parks but also in all parts of our country.

The CHARMAN. There will surely be to the discussion of this matter of the reservation of areas for scientific study, and I should be glad for further remarks from anyone of the delegates.

Mr. HAMLIN. In setting aside such areas, either in or out of national parks, I have heard it suggested by scientific men that it is exceedingly advisable to set aside many such areas under Government supervision-areas which would be located in every typical section of the country, for purposes of scientific research. One reason which they have mentioned is to me an exceedingly interesting one, namely, that of the values of plant life for food and medicine. It is a curious thing that of the plants we use in these respects to-day many were entirely unknown before the discovery of America. As a matter of fact, the plants of the Western Hemisphere were absolutely unknown to the people of the Eastern Hemisphere. No duplication was found, and the same is true of animals, excepting the dog. This is a most interesting and curious fact. It is doubtful if we have reached the end of our tether in developing our food plants and medicinal herbs: and it is extremely advisable that every country the world over should set aside typical areas and hold these inviolate until such a time shall arrive when scientific investigation may bring to the world a discovery of inestimable value.

The CHAIRMAN. Thank you, Mr. Hamlin. Is there further discussion on this subject?

Mr. Degener. It seems to me that the entire Hawaiian Islands should be protected against the introduction of harmful exotic plants and animals. Within our archipelago different plants and animals are found on different islands. It is also true that the natural communities of plants and animals differ greatly even in different valleys on the same island. The island of Kauai, which lies to the northwest cous, is the oldest of the chain, and has therefore the deepest canyon, and the most varied flora and fauna. Hawaii is the largest and also the youngest island, and has not yet been in existence long enough to develop deep canyons. If we could only make the public

In a column a few months ago you referred to potatoes as spuds. As I recall, it was a column mentioning that British spuds had to be improved to compete in the European Common Market. Can you tell me how the word "spudi" originated?

A—I can't, and the dictionary is no help, but one of my "fans" cas. Shortly after this column was published I had a letter from a Sister Columba Collan of the Benedictine Sisters who said she came from Bangor, County Down, Ireland, and she wrote as follows (1674).

"Spud equal Society for the Prevention of Unhealthy Diets.

This name was coined by a group of Englishwomen in, I think, the early 19th century. This group considered the potatoes injurious to health and tried to prevent their use even though this would have been a calamity for the poor Irish.' From the S.P.U.D. movement was born the humble spud — the potato."

102

#### REVIEWS

THE PRINCIPLES OF ANIMAL HYGIENE AND PREVENTIVE VETERINARY MEDICINE: by Leunis Van Es. John Wiley & Sons, New York. 1932. 768 pages with 78 figures, \$6.50.

This comprehensive work is a result of the author's fruitful career in the field of animal diseases. It consists of 53 chapters. The introduction cites the scope of hygiene as embracing genetic hygiene, environmental hygiene, and biologic hygiene. Then follow chapters dealing with such subjects as heredity, the soil, air and ventilation, water and food in their various relations to hygiene and preventive medicine. Each chapter closes with a list of complete references to pertinent recent literature. The chapter on foods is especially commendable, dealing with nutritive substances, various factors in spoiled food, the more common poisonous plants, extraneous impurities, infection and a series of good diagrams for hygienic feeding of large and small animals. Other subjects treated include the more important of the fungous, bacterial, virus, and protozoan and metazoan diseases of domestic animals. With the exception of the important subject of helminthiasis which is covered in only a few pages, the work is well balanced. Its wealth of material prepared in scientific but relatively nontechnical form makes it admirably adapted for use not only by veterinarians and stockmen but also by Red Cross and other health workers and by laymen generally .- J. E. ACKERT.

ILLUSTRATED GUIDE TO THE MORE COMMON OR NOTE-WORTHY FERNS AND FLOWERING PLANTS OF HAWAII NATIONAL PARK, WITH DESCRIPTIONS OF ANCIENT HAWAIIAN CUSTOMS AND AN INTRODUCTION TO THE GEOLOGIC HISTORY OF THE ISLANDS: by Otto Degener. Published by the author, 1930. \$4.00. (Obtainable from Otto Degener at 2220 University Ave., Honolulu, T. H., or at 7 Goodrich Ave., Fieldston, Riverdale, New York City.

A general work in which the plants of the Hawaii National Park are taken up with a view of facilitating the naming of many of the plants that one might see in trips through the park. The black and white line illustrations bring out the characteristics of the most important plants; other illustrations, including several photographs, add to the value of the book. Contour maps and a general discussion of the geology and the development of the Hawaiian Islands make the book useful to others than purely botanists. It is such a book as one would like to have to study before, during, and after each visit in this National Park. Much credit is due Mr. Degener for the assembling of this material.—Frank C. Gates.

### PLORA OF MELANESIA

Native name	Dialect
Collector	
Altitude above sea	
	erb
Height of plant	Diam
Florer	(Odor, color, etc.)
Fruit	(Kind, odor, color, etc.)
Economic uses	

20.4



### Died 75 Years Ago, a Progressive in Ideas Horace Mann said:

American common school."

Yet, contrary to a general assumption. Horace Mann was not a lindeed, the illustrations and come large mann, who rendered his main ser, parlsons which he used a century educational philosopher did Horace Mann, who rendered his main ser. ments (notably that for the con- Education Association in its came. So, if a teacher desires that his S, with a lecture on the mountains solidation of district schools, which paign for saving the schools of to- pipil should be a great man rath- of Hawaii and the exotic plants are not yet completed today.

day. One example will suffice. He er than a good one; or that he share grow there

As one reads the almost unbelley, wrote; As one reads the almost unbelievable number of his reports, speeches and letters, one is amazed at the modernness of his ideas. If Horace Mann were here today he could district in the land, would endow

### A New Englander.

His principal work was done in ment of a board of education to re-wrote, as its secretary;

vise the school laws and reorgan- In our town meetings and in

vise the school laws and reorganize the common-school system of the State.

His twelve years' service as secretary of that board and the annual reports on educational policy which he wrote are his chief monuments today. Neither his later terms in Congress nor his presidency of Antonich College at Yellow Springs. Ohio, where he championed, respectively, the anti-slavery cause and that of co-education, have left so deep a personal impress upon model of the wear.

In his reduction district meetings and in our school district meetings wealthy and users as when the subtraction of the school of as sangle lesson at target firing. I suppose the cost of a common total transport of the public schools of Massachustis last year was only \$12.80 amonth, inclusive of board, or the tweetings and in our school district meetings wealthy and substantial ment oppose the grant of \$15 for a school to the West and the school of the sch ern thought.

for all children regardless of where day, he questioned the value of the they lived; learning to read by formal recitation, the examination words and groups of words rather and all teaching methods which enthan by letters; the provision of gender among the pupils a competilibraries for all schools; the effi-tive spirit. cacy of activity in education; char- Surely he was proclaiming the a host of other topics he discussed when he wrote: in his reports and addresses with . Children should also

By ROLLO G. REYNOLDS. the material welfare of schools. Up Principal Horace Mann School, and down Massachusetts he trav-Principal Horace Mann School.

Principal Horace Mann School.

EVENTY-FIVE years ago, on eled, arguing for consolidation of Seventy-Five years ago, on eled, arguing for consolidation of seventy-Five years ago, on eled, arguing for consolidation of seventy-Five years ago, on eled, arguing for consolidation of seventy-Five years ago, on eled, arguing for consolidation of seventy-Five years ago, on eled, arguing for consolidation of seventy-Five years ago, on eled, arguing for consolidation of seventy-Five years ago, on eled, arguing for consolidation of seventy-Five years ago, on eled, arguing for consolidation of seventy-Five years ago, on eled, arguing for consolidation of seventy-Five years ago, on eled, arguing for consolidation of s

started many educational move cent publications of the National ber ments (notably that for the con-

Mann were here today he could district in the land, would endow easily be one of the outstanding speakers at the most progressive of teachers' conventions. His philosophy expounded there would around much like that of John Dewey in its liberalness and in its focusing of emphasis on the child.

New Englander.

#### War and Education.

his native State of Massachusetts. Even his illustrations of what depression. In discussing the unhis native State of Massachusetts. Even his illustrations of what depression. In discussing the uning his collection of approximately Born in Franklin on May 4, 1796, money spent for war could do it willingness of the rich to support 40,000 Hawaiian plants at the New he attended college in Rhode Island spent on the education of children public schools for all children, he at Brown University, but returned are strikingly similar to those fre- wrote, in 1846: to Massachusetts to study and prac-quently heard in recent months. I believe t tice law. By 1827 he was elected to Only the figures used are different. the State Legislature, and there In his annual report to the Board ten years later secured the appoint-of Education of Massachusetts he

In his educational philosophy, like Equal educational opportunities the "progressive" educator of to-

oter building as one of the great modern philosophy of children's inaims of education-all these and terests and children's participation

in his reports and addresses with Children should also be ena point of view as modern as that couraged to frame questions for
of those who discuss them 'todaying and within her own working; and addresses with
frame questions for the mins, to
frame questions for an expercise would, be of great
an exercise would, be of great
tuility, as it would help them to

HORACE MANN A 'MODERN' understand more thoroughly the nature, the number and the relation of the terms necessary to form a practical question. Preparing questions would fasten more securely in the mind the principles for their solution. understand more thoroughly tha

Of the ordinary school regitation to the

I feet that too much value to

was not much higher:

The manner in which school who are struggling to solve them! examinations have heretofore been conducted has tended to make the moral progress of the

should acquire wealth rather than esteem; or that he should master the Latin and Greek languages rather than rule his own spirit; nt rather than love the Lord his God with all his heart, and his neighbor as himself-then he will goad him on by the deep-driven spur of emulation, or any other motive, until he outstrips his fellows, at who whatever peril to his

are students of the educational, 14,000 feet high. economic and social problems which

I believe that this amazing



Horace Mann.

dereliction from duty, especially in, our own country in the faise notions which more in the faise notions which men entertain respecting the nature of their right to property than in anything els. The cumentation

society of which we necessarily constitute a part must be pre-served; and, in order to preserve it, we must not look merely to what one individual or one famcommunity needs: not merely to what one generation needs, but to the wants of a succession of generations

We think that our educational I feet that too much value is We think that our educational ordinarily attached to the recitar and social conditions are peculiar tion. I fear it is often regarded as an object, and not as an instrument; as the goal and not as eas and different. Horace Mann, the path that leads to it. \* \* were he here today, would not find But his aninion of examinations hem so strange, and how much in tommon he would have with those

### Fall Lectures

The fall series of illustrated lecman, who rendered his main ser- and the short he ability of Massa- Mann sound as he paid his respects tures, which are given without vice to the Commonwealth as legis- ago to show the ability of Massa- Mann sound as he paid his respects tures, which are given without vice to the Commonwealth as legis, ago to show the abund of constant mand sound as he hald his respects tures, which are given without later and administrator through chusetts to finance the education of to the competitive spirit in the charge every Saturday afternoon later and set forth in the Museum Building at the bettering the condition of its might well be compared with re-what he thought the outcome would New York Botanical Garden in schools. He was a reformer, who might well be compared with re-what he thought the outcome would New York Botanical Garden in

Native autumn wild flowers will be the subject the following Saturday, and the national parks of the United States September 22.

"Rambles in Hawaiian Mountains" is the title chosen by Otto Degener, formerly on the faculty of the University of Hawaii, for the opening lecture. He will describe regions where he has ex-Horace Mann would be quite at plored for plants, ranging from home in the company of those who sea-level up into mountains nearly

aconomic and social processing and A resident of the A resident of the face us today as the result of the years, Mr. Degener is now study-A resident of the Islands for ten York Botanical Garden in the preparation of his third book on the Flora of the Islands. During his collecting he visited most of the islands of the Hawaiian Archinelago. On the Island of Molokai he camped in the mountains for five months with a kanaka or native as assistant. On this island alone he collected strange tree-violets and an enormous lobelia resembling a telegraph pole with a cabbage on top. This lobelia has straight, white flowers about three inches long. Other kinds, with curved flowers, are pollinated by a strange group of honey-birds whose beaks have the same curve as the flower. If the beak were straight, the hirds, which feed on nectar, would be unable to probe the curved flowers for the nectar contained within.

These lobelias are just a few of the strange plants peculiar to the Hawaiian Islands, islands that, Mr. Degener declares, are truly a botanist's paradise of the Patinc.

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Otto Degener, B. S., M. S.

Author

Title Illustrated Guide to the More Common or Noteworthy
Ferns (and Flowering Plants of Hawaii National Park With
Descriptions of Ancient Hawaiian Customs and an Introduction to the Geologic History of the Islands. (Cover Title:
Flants Hawaii National Park)

Potany Mamber

2000 6 X 9 in. XV + 31 2 Maps

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(From whom the book may be obtained)

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Standort: an Many	in non Cifole, have turner
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193 \$	leg. V. Engelhardt

Published in the July (1934) issue of the Transactions of the American Microscopical Society, Vol. LIII, No. 3. Ackert. Editor

PRUTEWS

FLORA HAWAIIENSIS, OR NEW ILLUSTRATED FLORA OF THE HAWAIIAN ISLANDS: by Otto Degener. Published by the author, 1932. \$3.50. (Obtainable from Otto Degener at 2222 University Ave., Honolulu, T. H., or at 7 Goodrich Ave., Fieldston, Riverdale, New York City.

This is the first of a series of loose-leaf books in which the flora of the Hawaiian Islands is to be taken up in the manner of a standard manual of botany on a larger scale than one would expect from just the term manual. Description of the families and keys to the genera and species are given. The plants included are illustrated with full-page outline drawings in black and white and a few from paintings in color, well executed to bring out the salient details for recognition. With very few exceptions, the drawings are original. Following the drawing, a rather full description of the plant is given in most cases. The type locality is indicated, the local range and finally the extra-Hawaiian range. One cannot speak too highly of the plan of the work and the fine quality of the drawings included. As succeeding issues are made, the loose-leaf arrangement permits assembly in a systematic order. The present volume includes a hundred plants distributed among various families of higher plants.-Frank C. Gates.

TEXTBOOK OF GENERAL ZOOLOGY, Second Edition, Rewritten and Reset: by Winterton C. Curtis and Mary J. Guthrie, with the collaboration of Katharine R. Jeffers. John Wiley & Sons, Inc., New York, xv +588 pages with 438 figures. \$3.75.

This work is a revision of the 1927 general zoology textbook by Winterton C. Curtis and Mary J. Guthrie. The 21 chapters in the former work are reduced to 17 in the present one and the arrangement of the material is somewhat altered. After a brief introduction, the authors launch into the vertebrates, using the frog as a type, for the reason that the student will be more interested in an animal somewhat like himself. Next follows an excellent chapter on vertebrate organ systems related to metabolism in which are stressed the nature of protoplasm, food, digestion, assimilation and related subjects. Emphasis is placed upon endocrinology in the vertebrates. Then begins work on the cell following logically through cell division, reproduction and development to heredity and variation which are given strong

At the end of chapter seven a definite break occurs which might well be termed part two. Here begins the classification and organization of animal groups, the work proceeding from the Protozoa through the Porifera, Coelenterata, Platyhelminthes, Nemathelminthes, Molluscoida, Trochelminthes, Annulata, Mollusca, Echinodermata to the Arthropoda. The classification is carried through classes for each of these phyla with the ex-

IN POPULAT

Number of Residents Board of Health Past Fiscal Year As Sent to Governor

Although Hawaii's popul tion declined 1,263 to 378 Increase of 4,831 Record By, 1934, the territory's ed Despite Shrinkage in en population registered en intrease of 4,831 in the sam

These figures are revealed in a report submitted to Govthe board of h

Hawaii's po

65,028

The following tabulation shows comparative population figures by nativity: Hamailan Asiatic-Haw'n Caucasian-Haw'n Puerto Rican Chinese Japanese Korean 270 580 279 049 Totals The decrease in the Filipino population, in awaii during the six months' peace was 1,830, or more than the total decrease for the enulic territory.

The following tabulation shows

58 300

379.580

the citizen and non-citizen population of Hawaii, by nativity, as of

June 30, 1934:

. W.c.		Non-
Sales Contract	Citizens	Cidzens
Other Caucasians	44:503	2383
Chinese	21,640	F . 5,349
Pilipino -	_ 13.139 2	43/561
Hawlettan	. 21,796	*************
Japanese	.105.957	42.067
Korean		2.573
Asiatic-Haw'n		
Caucasian-Haw'n		
Portuguese 200		2.019
Puerto Rican	7.280 -	-
Spanish		258
All others	686	25
***************************************		
m-1-1-	-	

me cale.

six months ending June 30, last,

was sent astore with many press would be mental than these would be discovered by the standard with many press. The provision visiting ships.

According to Townson and Acc

having been involved in them.

INVOLVED IN PLAN

Quimper's ship was the Princesson Just before Vancouver sailed, a Royal, a vessel that had been captured important operatory took place about these stands, according to have captured the saint of the shadood of the shadood of Hawaii to Great Sould. When the Spanish authori-Britain, Such a cession had been frogers and the shadood of the shadood of Hawaii to Great Sould. When the Spanish authori-Britain, Such a cession had been frogers and the shadood of the shadood of Hawaii to Great Sould. When the Spanish authori-Britain, Such a cession had been frogers are shadood to the shadood of the shadood of Hawaii to Great Sould. When the Spanish authori-Britain, Such a cession had been frogers are shadown to the shadood of the shadood of Hawaii to Great Sould Hawaii to Great Hawaii to Great Sould Hawaii to Great Sould Hawaii to Great Sould Hawaii to Great Hawaii to Great Sould Hawaii to Great Hawaii to Hawaii to Great Hawaii to Hawaii to Great Hawaii to Great Hawaii to Great Hawaii to Hawaii to Hawaii to Hawaii to Great Hawaii to Hawaiii to Hawaii to Hawaii to Hawaii to Hawaii to Hawaii to Ha

and again anchored at Kealasekua and He was the recipient of many press. "On the 25th of february, 1794, units, including feather cloaks and Tamashmanh (Kamehameha), king aelmets. Vancouver was visited by of Owhyhe (Hawaii), in council two of his countrymen, Young andwith the principal chiefs of the ispars, who told him of the captureland, assembled 'on board his of the Fair American, and how Ka-Britannic majesty's sloop Discovery mehameha regressed the transaction in Karakistone bear agreement.

clerk, left the ship to establish their came reconciled to Kaahumanu the residence in Kona.

Ingraham was handed a letter Settlement of this quarrel between the from Kendrick and another from the blocovery while anchored in Kenthom Kendrick and another from the blocovery while anchored in Kenthom Kendrick and short time before opinion to the Hawsings as he had been in the bay a short time before opinion to the Hawsings as he had been in the bay a short time before opinion to the Hawsings as he had been in the bay a short time before opinion to the Hawsings as he had soll as the set of th

# In under water, so it stated for and of his continued kindness to majesty's tender the Châtham, and the period of seven and a half min. The English navigator found the latter due consideration, unanimous-fires. The deviation is the control of the Discovery: The English navigator found the latter due consideration, unanimous-fires and in this case the capital half of the latter due consideration, unanimous-fires and the control of the latter due consideration, unanimous-fires and scale and also be capital as the subjects of capital and also fires and the subject of the sun of the two pieces of iron. The English navigator found the latter due consideration, unanimous-fires on the description of the description of the properties of the Discovery: The English navigator found the latter due consideration, unanimous-fires on the description of the standard on the standard on the standard on the standard of the standard on the sun of the sun of the two pieces of iron. The English navigator found the latter due consideration, unanimous-fires on the description of the standard and also of the standard and also of the standard and the sun of the standard and the sun of the sun

year. The small apple orchard of Mr. Degener w. M. Kobayashi of Walakoa is mak- this year. ing excellent development.

Mr. Degener wintered at Nassau

mehameha regretted the transaction, in Karakakooa buy, and in the presence of George Vancouver, commander of the said sloop; Lt. Peter Puggt, commander of his said

Hunt Institute for Botanical Documentation

### MARYKNOLL IS ON LAND ONCE

Fruit Trees Standing On Property Give Idea How Region Was Once

By GWENFREAD ALLEN Fruit trees of many varieties on ome of the Maryknoll sisters on Dole St. stand as evidences of the nee suburban atmosphere of this

The house itself stands as a landin the district, dating back

The land was a part of the orig-nal Punahou tract, given by Boki in 1829 to the Rev. Hiram Bingham. in 1820 to the Rev. Hiram Bingham.
Thus, strange as it may be, the property which so early in its recorded history was intended as aste for a Congregational school, has now become the site of a Catholic school. And, in the years between, it was for a period the home of an afficial of the public school system of the monarchy.

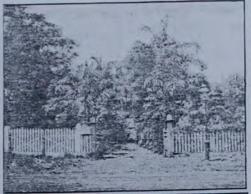
But Punahou never used any of its land makai of Wilder Ave., and the school and mission authorities later sold the tract. The area between Wilder Ave, and Dole St., facing 200 feet on each street, became the property of the Paris family, who milt the home which is still stand-

At the time, and for several dec-At the time, and for several decides later, Wilder Ave, was just a sinding trail makal of the rock ence of Punahou, just wide enough or an old fashioned wagon and cam of horses to go along, kamaalpas recall. Dole St. was a more de-

The property later was sold to D. The property later was sold to D. Department one of the earliest missionates to the Hawaii. Mr. and Mrs.

2. D. Baldwin had been married on me maining the maining in the first living at Latanana. Then they came immediately the maining again. Then they came in Kohala, and then at Lahains again. Then they came in Kohala, and then at Lahains again. Then they came in Kohala and then at Lahains again. Then they came in Kohala and then at Lahains again. Then they came in Kohala and then at Lahains again. Then they came in Kohala and then at Lahains again. Then they came in Kohala and then at Lahains again. Then they came in Kohala and then at Lahains again. Then they came in Kohala and then at Lahains again. Then they came in Kohala and then at Lahains again. Then they came in the collecting of land shells, and der, Dole, Punshou and Wilder, and the collecting of land shells, and der, Dole, Punshou and Wilder, and the collecting of land shells, and der, Dole, Punshou and Wilder, and the collecting of land shells, and der, Dole, Punshou and Wilder, and the collecting of land shells, and der, Dole, Punshou and Wilder, and the collecting of land shells, and der, Dole, Punshou and Wilder, and the collecting of land shells, and der, Dole, Punshou and Wilder, and the collecting of land shells, and der, Dole, Punshou and Wilder, and the collecting of land shells, and der, Dole, Punshou and Wilder, and the collecting of land shells, and der, Dole, Punshou and Wilder, and the collecting of land shells, and der, Dole, Punshou and Wilder, and the collecting of land shells, and der, Dole, Punshou and Wilder, and the collecting of land shells, and der, Dole, Punshou and Wilder, and der, Dole, Punshou and Wilder, and der, Dole, Punshou and Wilder, and der, Dole, Wilder, Wilder,

### A Rural Area 40 Years Ago





-some 40 years or more ago-to the home

le all the frees now standing on the grounds were set out. Gerrit P. in horticulture from the trees here. Mr. Davis imported the lambus No. 11 mango, besides having a large number of other mangoes growing. There were tropical fruits galore oranges, sour sops, sweet sops, cherioranges, sour sops, sweet sops, cheri-moyas, avocados, purple and white-star apples, breadfruit, tangerines, cashew nuts, garcinias, and Samoan palms. One row of palm trees led to the house, another bordered a drive along the ewa side of the lot, which circled around to the side entrance of the house and then led to the harm

Animals of all kinds were housed in the rear half of the lot. Pigs, rabbits, cows, horses, sheep, dogs, guinea fowl, pigeons, chickens, monkeys, parrots and canaries found room to roam here.

room to roam here.

Last private owners of the house were Mr. and Mrs. Alexander (Alika) Dowsett. Members of a prominant island family, they moved into the house early in the 20th century and occupied it for a number of years.

10 2 ils genera

flora o

### Mark Twain In Paradise

By MILDRED LEO CLEMENS, F. R. G. S. Copyright, 1935, By The Star-Bulletin

The Star-Bulletin offers herewith the story of Mark Twain's adventures in the Hawaiian islands, an account written by a cousin who three in the line and who has for this land the same deep regard total, and the has visited here and who has for this land the same deep regard total, tion, by the world famed humorist. The arries will consist of 20 chapters. "A gentleman who gave his name to the pleasant orange and coffee regard come to the plan-

Mass., and became captain of one of the inter-island schooners that ran between the islands.

One day the captain and his vessel (the Boomerang) were both at the pier in Honolulu when a man unknown to the captain came down to the dock and asked, "Where does this craft go?"

"Well, we're going up to Hawaii," said the captain.

"Do you take passengers?" fur-ther queried the stranger. "Yes."

replied the captain. "What time do you sail?" was the

next query.

The captain informed his ques-tioner and before time for the ship to sail Mr. Clemens appeared with an old-fashioned carpet bag (a two handled contraption) and booked passage on the ship for Hawaii.

On the voyage the cook was taken sick and the captain turned cook and fried to make biscuits and Mark Twain wrote, "His intentions were good but his biscuits were damnable."

It was not until later that the captain learned the identity of his noted passenger.

One needs only to thumb the pages in Roughing It, written five years after his island visit, to see vividly the impressions that par-ticular voyage made on Mark Twain. It was all new, strange, fascinating, a fringe edge of which was still remaining in the islands and on inter-island travel 50 years later when in 1916, for the first time the writer sailed those same channels rwain coming to their old home in Island settings.

Kona district, landing at Kalius, Henother, later Mrs. Coon), and that came and pineapple industries, surf tells us in The Innocents at Home-Wark Twain stopped with the riding, etc.

There is a color picture of the boat and went ashore at Kailua.

water made by Mark Twain when enough submer out that less the tially practical and farming on a re-he shipped in the Boomerang with soft lull of these lines, "The trail ont lava flow was hard diggings," the father of the present super-passes along on high ground—say Our guest look life a little too easthe father of the present super visor.

"Charlie" Crane, as I knew him in 1915, told me his father rememing bered Mark Twain's visit to the islands, the cean, which is always in sight, save that occasionally you lands in 1866 and told me a story of the community of the communit



of sapphire hue with their emerald Kona and talking with her father.

Twain first visited the hat she knew Frances Lack (Mel's Hula dancing, history of the sugar

During my nest visite to Hawaii in SSUE WARNING at the pier in Hilo. She had been at the pier in hilo: She had oeen nyes to visit Melvin and Gladys Nicoll, and was sailing on the same steamer I was returning on to Honolulu. On our voyage Mrs. Coon Frances Lack Nicoll Coon) told me this story about Mark Twain, who

To island fork the following in- at a point some leagues distant. This days had asked if he might stay To island four the following in- Ara point some leagues during it and the late of the might stay ident as related to me by Charles Journey is well worth taking." there for a time. He was most well-some will add interest to the Who of us who have spent come and proved a delightful guest. Foregoing account of that voyage by languarous days in Kona's never But father was Sosich and essenwater made by Mark Twain when which is the late of the table practical and farming on a re-

Miss Parls remembers Mark any new seedlings coming up from Twain coming to their old home scattered seed dug up before they Twain coming to their old nome scattered seen on a possible to and talking with her father. He flower, was dressed, she told me, "like 'aa "Once the grass gains a foot-traveler, a little rough looking," She hold of any size, it is probably not did not hear or remember what was possible to eradicate it. Attempts said but well remembers his visit. Mr. Paris (the first missionary in the Kau district of Hawaii) was a regular subscriber to the powerful Sacramento Union in which Mark Twain's weekly letters were then appearing.

Wednesday-Twain explores the

### Books On Hawaii Given To Library

HARLINGEN-Otto Degener, former University of Hawaii botanist who said that he had no way of storing his books, has given three volumes on Hawaii to the Harlingen Public Library.

Two of the volumes are "Flora elephant grass."

plants found in hawait instants to four feet int. Park and other parts of the islands, heads are silvery in appearance. sion of the formation of the island,

There is a color picture of the Hunt Institute for Botanical Documentation

## ON SOUR GRASS

Drive out sour grass!
This is the call sounded by the this story about mark I wain, who had visited at her father's planta-Hawaii agricultural experiment

The grass is one of the worst gion of Kona, and rejoin the vessel tation and after the custom of those grass pests ever to find its way into the territory, the agronomy division of the station reports, and in a short time it has spread ra-pidly over Oahu until it now menaces all pastures as well as culti-

mined the next time I saw Mr. Crane I would corner him, or lasson him or do something to get that tale.

We met one day near the post, which and hailed Mr. Crane and never left him and hailed Mr. Crane and never left him and hailed Mr. Crane and never left him or sets are sets and never left him or sets are left him or sets and refresh the conflict, both seemed in a hurry, but I turned after our passing alonk. The plantation here ment office, both seemed in a hurry but I turned after our passing alonk. The plantation here ment office, both seemed in a hurry but I turned after our passing alonk and hailed Mr. Crane and never left him cappe until I had made notes as related and here it is:

Capt. Erra D. Crane, father of "Charlie," came to the Hawaiian is resent home. Miss Paris told me was too lazy to hoe a row of potalization of our place which he saw the signature, then said, much mollified. "So that was Mark I for that name did mean something to us, then added, with see should be carefully removed in the left of the planta have flowering heads, income to the Hawaiian is resent in keeping out this grass would be more effective. Mark Twain' acknowledging our hear always a beautiful and pasture improvement," they say.

"There scatched his head when a some him of the late was the signature, then said, much mollified. "So that was Mark I for that name did mean something to us, then added, with a description of the plants have flowering heads, income the head were assily. The dotter of the late was too lazy to hoe a row of potalization of the planta have flowering heads, income the head when and something to some the head when a many dollars spent in keeping out hand and head the carefully and giving a beautiful and schoolider you fair man may debut the saw. The same that was mark I would not so the late was the signature, then said, when the saw of the late was now in the saw of the late was



Mrs. Gerald W. McKenna, II. are being made on Oahu to elim-brarian, Tuesday acknowledged the inate it by means of very vigorous receipt of three bound and three grasses like kikuya grass and tall unbound volumes from Degener. grasses like panicum grass and

Hawaiiensis," on the flora of the Sour grass, sometimes called island. It is illustrated.

Another of the bound volumes confused with other grasses, the "Plants of the bound volumes confused with other grasses, the "Plants of the sound volumes confused with other grasses, the "Plants of the sound volumes confused with other grasses, the "Plants of the sound volumes confused with other grasses, the "Plants of the sound volumes confused with other grasses, the "Plants of the sound volumes confused with other grasses, the "Plants of the sound volumes confused with other grasses, the "Plants of the sound volumes confused with other grass of the sound volumes confused with other grass." Another of the bound volumes confused with other grasses, the is "Plants of Hawaii National agronomists point out. Panicum Park." In it, Degener emphasizes fordum has the same silvery the culture of ancient Hawaii as otherwise, The plant is a bunchl exemplified by the use of native therwise. The plant is a bunchl plants found in Hawaii National grass, upright in growth, and three plants of the representations of the stands. The flowering

## Diogenes' Makes Amends the fall campaign in Hawaii were brid called by some the tanggloon but correctly named weldwa tanggloon to this prominent piece of Demographic fartier national legislation. Apparamentational properties of the fruit is smaller than the fartier national legislation. Hawaii went Reputber of Hawaiian conditions may be the same acceptable of the s

President Roosevelt's trip to Ha-ton

with.)

President Rooseveit's trip to Hawail sats summer surred the people of the "Paradise Islands" to more shand demonstrations of the "aloha islands, whose ability to govern the Tritrotry of Hawail shall be in the territory, "home rule" was recognized as "an integral part of the United States," the Hawail with the Republican party leading people became, with the President sin a slashing attack on the national risk, more acutely sensitive to comment about them on "the mainland than they had been ever before."

An illustration of this comes to have the comment about them on "the mainland than they had been ever before. The people of Hawaii were especially in the serviced from Hawaii against some of the comment on this pase on August 1; 1934.

Particularly, Americans in Hawaii passed the house, but later was withsome of the comment on this pase on August 1; 1934.

Particularly, Americans in Hawaii passed the house, but later was withsome of the comment of this comes to have the effect of weakening the ha

vote caused apprehension both to nation.'
military and naval authorities, and The to the civilian elements.

city of the islands for self govern-wall distinctly American comes well-soverned community, with an sion of doubt that the young citi-defense authorities on the islands, all-pervading spirit of democracy, zens of Oriental ancestry would be and there is "a growing conviction and evidence of tolerance that is loyal to the United States.

Protests went from Hawaii to "blogenes" and in a later issue appoars the article reprinted here form, the commissioners of which are dependently in an expensive power of the protest. The protest is the protest would be appointed from Washing-protest.

and that this rise in the Japanese very truth an integral part of the lime and tanger ine but was problemented that official reconstitutionality of which This was problemented that official reconstitutionally of which This was problemented that occurred in the policy of the mass that occurred in the problement of the New York Boasian Garden for September and October 1921, at the total control of the New York Boasian Garden for September and October 1921, at the countries of the New York Boasian Garden for September and October 1921, at the countries of the New York Boasian Garden for September and October 1921, at the countries of the New York Boasian Garden for September and October 1921, at the countries of the New York Boasian Garden for September and October 1921, at the countries of the New York Boasian Garden for September and October 1921, at the countries of the New York Boasian Garden for September and October 1921, at the cou

at the University of Hawaii, who is the people of the territory.

are did with being perhaps the coremost authority on Hawaii show he have a minimum of the coremost authority on Hawaii show he have the population trends.

Dr. Adams, in a recent analysis, Republican party came ous with Japanese in Hawaii constituted and the constituted and the constituted but 40 per cent. Also, my by the present delegate to congress, and the constituted the properties of the constituted the properties of the constituted and proper cent. Also, my by the present delegate to congress, and the constituted 48 per cent of all The other, led by John H. Wilson, the year ending June 30, 1924, chilling the constituted 48 per cent of all The other, led by John H. Wilson, wall constituted 48 per cent of all The other, led by John H. Wilson, wall constituted 48 per cent of all The other, led by John H. Wilson, wall constituted 48 per cent of all The other, led by John H. Wilson, this fellow from the year, but, exactly Democratic national committeemal to years later, children of Japanese for Hawaii, indorsed the legislation, and years later, children of Japanese for Hawaii, indorsed the legislation, his fellow Democratic national committeemal and the constituted and the constituting the constituti

By "DIOGENES"

well as citizen born, are dropping

Hawaits "place in the nation" is the percentage tables. Doctor

"Diogenes" of the Literary Digest for Novem fast in the percentage tables. Doctor

"Diogenes" of the Literary Digest generation is passing fast by death underlying all this. Its citizens are than made amends handsomely for and removal, and the citizen general ardent and perseving in their detangelos, but its a seedling of another article received here with tion is growing up as an American mand that their territory shall be been able to get enthusiastic about a recent article received here with tion is growing up as an American article state of the standard of the pressure which followed President

Rossevelt's visit to Hawaii, was I commented that "the pressure who, after a visit to the islands, are without pleasure and have not a liken as a reflection on the capa- for taking steps now to keep Hamaii as a reflection on the capa- for taking steps now to keep Hamaii as a reflection on the capa- for taking steps now to keep Hamaii as a most law-abiding, ment and particularly as an express quietly from the American actions all-pervading spirit of democracy, sing of doubt that the young citi-idefense authorities on the islands."

Rossevelt's visit of Hawaii, was an express quietly from the American actions all-pervading spirit of democracy, and contains an expression of the property of the standard and evidence of tolerance that is

Journ. N. Y. B. 911/-/49 And of a Personality

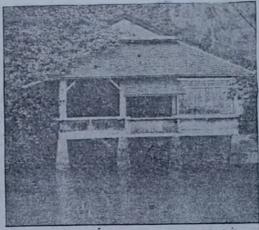
NATURALISTS SOUTH PACIFIC EX-PEDITION: FUI, Otto Degener. 303 pages, illustrations, maps, index. Pub-ished by the author. P.O. Bux 187. Waishea, Oalm, T.H. 1949. \$5.

Otto Degener has a niche in hotanical Otto Degener has a mene of botanical history for giving his name to the Degeneraceae, the genus Degenera, and numerous little "degeneris" as specific names. He now has another incher as the author of this olume, which recounts the contractors of the contractors. his explorations while with the Anne his explorations while with the Anne Archbold expedition on the motorized mike Cheng-Ho.\* Here is a book to take its place beside the classics of the 19th cen-tury traveling naturalists, thoroughly modern, yet in an established style and tradition that has a parallel in such comonsitions as Prokofiev's "Classical Symphony.

The author has a rare trait of choosing his native friends with discernment, and of gaining their affection with their con-Sdence-a task difficult in a land where

the race problem is no better (or worse) than in our own lynch-conscious southern towns. As a result, this delightful account of his wanderings about the islands, filled with the human side of his expertences yet presented with the impartiality of a scientist (even to a minutely detailed description of yangona drinking, with clocked notations, some at one-half min-





In the upper picture, Mrs. Alexander G. Hawes Jr. is shown placing a lei on the Pacific cable on December 23, 1902, at the ceremonies just before the opening of the service. The cable came ashore at Sans Souci, where Mr. and Mrs. Hawes had gone to live a short time before. At the left, in the photograph, are Mr. Hawes, who was aide-de-camp to Governor Sanford B. Dole, John H. Bliss, Mrs. Ranny Scott, Dr. Frank Humphris, Mrs. Humphris, Gilchrist Hatch, Dr. Herbert, S. S. Dickinson, and Dr. G. P. Wilder. Below, left, a "turn of the century" group on the pier extending seaward from Sans Souci, Right, a view of the "old lanal" as it was when it was eccupied by Robert Louis Streemson in 1823. I The Jones-Costigan Act

Clitter's Note: The writer of this series of articles is a sampanished sample equilibration in the compression of the repercussions and the compression of the

never been eligible for critzensing inder either the Monarchy or the Republic of Hawali; also, that the elective franchise ta all citizens of the territory-to-be should be placed on a qualification basis; third, that Republic of Hawaii; also that the elective franchise to all citizens of the territory-to-be should be placed on a qualification basis; third, that the contract labor system be permitted to continue. All of these suggestions were in the discretion of the state of th

ish the birth rate among

In Review of Reviews Editorial Column 12/20/54

SAYS JURNAL Honolulans and other Island restricts at Hotel Stewart this week ve included David L. Crawford, and Mrs. Frederick G. Krauss, s. Beatrice Krauss and Went-

We have received a copy of the Editorial Column 1/2/25/1/
suggestions were in the discretion of congress, overruled.

Under the contract labor system probable that by 1940 the Japanese to the number to be admitted periodically, but also the interpretation of the interpreta

Wairio time, but the climate is chilly. Let us leave the Wairto se and findsone with more tropic lure. deain ages clinse and we are sailing on the Wantanah see Seas are againstransgressing over the land. Glaciers are and receding, ice-cars melting; climes are again more sunny and water The Waimanaio sea stands 25 feet above the present level-a

thick, the valley-cutting deep, and the dune formation large to

of 85-iger since Waipin time. It is the last of our seven seas to sail! It is sorteent geologically that its imprints are found all over Oahu. They have not been destroyed. Abundant traces of this Waimanalo sea are shown in wave-cut benches, wave-cut nips or notches, wave-cut cliffs, wave-built beaches, stranded coral reefswhich are almost continuous around Oahu at about 25 feet above present level and which are too numerous to cite. Again glaciers have receded, and ice-caps melted, drip-dripping water back into the seas. It is a time of rising seas, warmer climes, after the cold, cloudiness of Wainio Dahu.

We have sailed Dalus Seven seas-and it our sailing were world-wide instead of Oahu-nacrow we would find that Oahu's seven seas were the world's seven seas. The cycle of changing seas was world-wide—and traces of these seven seas are found on farflung shores. World-wide the changes in strand lines, world-wide and maybe cosmic the changes in climate which withdraws and returns some 4,320,000 cubic miles of ocean water.

Here and there scattered over Oahu-a little isle in the huge Pacific ocean-are the wave prints of seven seas! And the seven seas are these Kahuku, Kahipa, Kaena, Laie, Waialae Wanpio and Waimanalos

Be they grad or green or blue, always there is the restless urge of sea. They are hever the same yet always the same through each

Next Saturday "Kaau-Oahu's Halemaumau," the history of the fiery crater which once pulsated in the hills at the head of Palolo Palolo

### Silver Sword Plants Are Now Growing On Big Isle en economic adjustment in Man. You have not as large a house as 5 chukuo, not only for the good of we, or as much money, so we have chukuo, not only for the good of we, or as much money, so we have that country and its 30,000,000 in decided that you cannot have a 16-16.

(Special Star-Bulletin Carrespondence) HILO, Hawaii, Aug. 27—At least two dozen silver sword plants are growing on the side of a steep pall in a branch of the Walluku river in the land of Humuula, about 3,000 feet up the side of Mauna it was revealed today by L. Bryan, assistant forester, upon return from a trip up the mauntain.

This is the eighth of a series of stories dealing with Japanese-American problems as affecting the Hawaiian Islands and the Pacific.

Standard PASLEY

plant and to set them out in protected areas on the mountain side habitants, but for Japan's own sal.

Videnter car; all you can have is all

ton has been immune from some a

Until Mr. Bryan's discovery of Men are created equal and must
these plants it was generally be, have at least the right to exist
that any nation has had clean glasses in the cannot say whether?

plants in any quantity to be found in Hawaii today was in Haleakaiantions.

Citizens of Japanese descent in this conduct and action of any nation have suffered from the Hawaii should adapt themselves to

wild animals. A few of the plant, their envoronment and plan for the "We must talk, not in terms of a constitute accordingly."

Torm Haleatila crater, professive accordingly. from Haleakala crater, propagated tuture accordingly, lat the Hilo tree nursery, are now Figs Point I

ALASKA SOU

Map illustrates why Japanese Consul General to Hawaii believes war between his country and United States is an impossibility. America, 2 Japan and China (all three shaded) dominate Pacific and should have 2 a tripartite understanding for maintenance of peace in Pacific, he says.

is an improbability.

the maintenance of permanent and suppose that your neighbor, who unshaken peace in the Pacific.

plant and to set them out in pro-habitants, but for Japan's own sal-vylinder car; all you can have is a

will animals. A few of the plants defined by Mr. Bryan as a matter of real importance due to the fact that the save believed that the sixer sword plant was extinct on Mauna Loa.

Plants Are Spreading
According to Mr. Bryan, the plants are some stream of the plants are synchroling to Mr. Bryan, the plants he saw included some large matured plants, and other smaller ones, showing that the plants are spreading. They are growing in a small area of about 100 yards, and the fact that the plants are spreading. They are growing in a small area of about 100 yards, and the fact that they have survived. The plants have they plants have they plant shad they found hundreds of the fire plants on the fact that they have survived. The plants have they plants have they plants have they plants are spreading. They are growing in a small area of about 100 yards, and the fact that they have survived the inroads made by wild gots and wild sheep is due to their location on the steep pall where the animals can not climb, be believes.

Mr. Bryan obtained one seeds from one of the plants and an articipation of the plants and an arti possible war, which I do not con-

at Chicago, and consul general atthree nations in a vicious circle.
Sineapore. He came her last De- "What is needed and needed cember. badly is the adjustment of such

Tamura is American in dress invarianted entanglements among speech and mannerisms. He hastbeir peoples."

a genial personality, a quick wit Our trade with Japan in 1933, and a ready smile. He discusses latest year for which complete reall phases of Japanese-Americanturns, are available, was three problems feasily. discusses latest year low with the war three without times as large as that with China. showing a typerable beliance of the without times as large as the without times as large without the without times as large with the without times as large without times as large without times as large with times as large with times as large without times as large with times with times as large with times with times with times with times with tit problems frankly and

\$1.30 worth role

"We must talk, not in terms of

tween this country and Japan be his defense of Japan's terminis an improbability.

America, Japan and China should "Japan feels," he said at his sechare a tripartite understanding form

### Rotanist Has Third Volume

By E. H. BRYAN, JR.

Flora Hawaiiensis, the new il-lustrated flora of the Hawaiian islands, book 3, by Otto Degener is published by the author.

Otto Degener, Hawaii's freeto the public the descriptions and excellent illustrations of another hundred plants found in Hawaii.

The first volume of his loose-lest flora appeared in 1933; the second in 1935; and now comes the third "century." Each is a systematically arranged series of Inose leaves, which have been printed gradually during the incerval between their Issue in substantial, gaily-adorned, black and yellow covers. Key names and numbers make it possible for the owner of a set to rearrange the pages to suit his personal fancy, either in one systematic sequence or by special topics.

One page is devoted to each plant species, with a well drawn illustration on one side and notes and description on the other, Besides a detailed, somewhat technical botanical description of the plant, the information includes its cientific and common names, references to synonymy, type locality and range. These species pages are interspersed with keys and notes regarding higher classification groups of plants.

One feature of this issue is an 13 page "Glossary of Botanical Terms." The student of botany must, unfortunately, learn a new language in order to understand exactly what the botanists write. In fact, much botanical information is written entirely in Latin But even when the scientist is supposedly writing in English, he uses a great array of technical words which have very special meanings. Some 650 of these are of sketches to illustrate the meanings of 71.

The loose - leaf arrangement makes possible the indefinite expansion of this flora, as well as giving the author a chance to correct or change pages already is-sued. It is estimated that there are between 2500 and 3000 species of plants well established in Hawaii. We look forward with pleasure to the forthcoming 22 to 27 volumes, by which time many more plants will have been introduced. The job will never be finished, but what there is is good. and to be recommended to all interested in Hawaiian those plants.

Growth Of Macadamia Nut.



A sample page from Otto Degener's new illustrated flora of the Hawaiian Islands, the third volume of which has just been issued. This is the p'ate illustrating the macadamia nut.



in The Star-Bulletin)



RETURNED VOYAGERS OFFER CORAL TO THE GODS

Arriving off its home island a Tuamotuan double-canoe received a garland of leaves to be draped over its bows. A master of cere-

We have seen how the canoe was taken ashore gliding over the butts of coconut leaves. When the butts of coconut leaves. When it lay housed in its shed, each traveler took his thank offering, and a piece of coral representing the body of Ruahatu, god of the ocean, and went to the tribal, open-air temple. Laying his coral on the altar of Ruahatu, he pre-Spray appears every Friday sented his offering to the priest.

Large fish, turtles, pigs or dogs Large fish, turtles, pigs or dogs were obtained for a feast to which the ancestral gods would be invited. The animals were dispatched and cut up on the temple grounds. The best parts were set aside to deferred to the gods and then confirmed to the gods and then consumed by the priests and chiefs, earthly representatives of the gods.



it was divided. Each ate his fill and then repaired to the tribal assembly ground. When all had gathered, the orators started off with chants in honor of the voyagers, the lands visited, and explaits of their ancestors, Sonrs in praise of the canoe were sung Then spear-fighting and other contests were held, and finall dancing carried the festivities in-

At the termination of the canoe welcoming ceremony held for us at the island of Vahitahi, the elders remained seated on their mats, conversing until the bonfires which had lighted the assembly ground burned down. It being a fine night they wrapped themselves in their mats, and, right where they were, lay down to sleep, lulled by the gentle rustle of coconut leaves overhead

Much of this traditional ceremony remains in modern Hawaii. When the refitted MATSONIA first arthe reflited MATSONIA first arrived offport her bow was hung with a giant maile lei — Island acknowledgement of her safety, speed and luxurious comfort. Castle & Cooke, Ltd., General Agents for Matson Navigation Company. (Adv.)

### Man Killed In Park Av. Crash

George Ludwig Degener 3d. thirty, of Timberlane, Tuxedo Park, N. Y., was killed and a companion injured when a car in which they were riding collided with another at 59th St. and Park Ave., at 4:15 a. m. vesterday.

Mr. Degener, a bond salesmar for Rand & Co., 1 Wall St., was thrown from the car by the impact, striking a plate glass window at 505 Park Ave., on the northeast corner of 59th St.

Henry Peckham, of 321 E. 79th St., a driver of the car in which Mr. Degener was riding, was taken to Roosevelt Hospital suffering from concussion and a fractured shoulder. His condition was described as good.

In the other car were Jack Lipsman, seventeen, of 1137 White Plains Road, the Bronx. who was uninjured, and Frank who was uninjured, and Frans, Wilt, twenty-three, of 1680 Third Ave., who was treated at Roosevelt Hospital for an in-jured right shoulder and dis-charged. Police said Mr. Peckham's car was going south on Park Ave. and turned left to go east at 59th St. The car driven by Mr. Lipsman was going north on Park Ave., when the accident

Mr. Degener was a member of the Tuxedo Club, Surviving are his wife, Mrs. Louise M. Hegeler his wife, Mrs. Louise M. Hegeler Degener; a son, George; his father, George L. Degener; 2d; a brother, John M. Degener; a step-brother, Monroe B. Hall; a step-sister, Miss Joan Hall, and his grandmother Mrs. 5

over its bows. A master of ceremonies, twirling his carved staff, danced and sang at the edge of the reef. As the people assembled to take hold of the long ropes by which the cance was to be hauled while the food was cooking in ashere, he led them in lively and the great earth worm, splemn and cay spongs which robsectively sport to the reef to the cook was cooking in the cay spongs which robsectively sport to the great earth worm, splemn and the great earth worm, when the good was cooked.

### SANS SOUCHS HISTORIC HOME OF OLD HAWAII

mountains.

During the first part of Stevenson's visit, he was busy writing "The
Master of Ballantrae," solich appeared serially in a prominent eastern magazine. That finished, he enjoyed his leisure and delighted in reloyed his leisure and delighted in receiving Honolulans who called upon

Extending out from the Sans Souci property into the water was a long pier, which held interest as be-

Walkiki. Place Once Residence of R.L. S.; On Route of Cable From Mainland

By GWENFERD ALLEN
One of the best known of all captain and a friend of the Hatch and Hawes families.

One of the best known of all captain and a friend of the Hatch and Hawes families.

During their occupancy, the Padam of Amous by the residence there of the property was sold to the Cashes of the place of was a family resort and waterins place. It is constructed was a family resort and waterins place. It is constructed to make a series of the property was sold to the Amount of the Main and Hawes families.

Later, for 12 years, Sans Souci and the home of Mr. and Mrs. Alexander G. Hawes Jr.

During their occupancy, the Padam of the property was sold to the Amount of the property was sold to the property of the property was sold to the property was sold to the property of Allen Herbert who sold have a sold to the property of Allen Herbert who sold have a sold to the property of Allen Herbert who sold have a sold to the property of the file of the property of the property of the property of the property to George Lycurgus, who was a sold to the property to George Lycurgus, who was a property to George Lycurgus

"It was in one of the rambling several of the older buildings have burgalows of Sans Souci, facing the been torn down, but others are surf, that Stevenson gave, me site standby, including the house built tings," Mr. Hutchinson wrote.

"It issay Sans Souci was a rambiling hostelity, nestled, among the coconut and paim trees of Walskill beach. If was kept by an English man named Simpson, and was truly Bohemian, with no pretense at modern luxury; the only beach hotel analy and some surface are member. The main building was a rambanckle wooden structure a huge room which served as low and claims from compined, and claims from compined. It was the prevent of the present of the principal and claims from compined. It was not not considered the principal and, to which the kitchen and first was in one of these bunglows the sevenson had established himself, propped up with pilows on the bed, in his shirt sleeves."

ARGOSY BOOK STOPES IM East Solb Se New York 22 N. Y.

Witter Often III.

ARGOSY BOOK STORES, 114 East 59th St., New York 22, N. Y.

Although Stevenson's illness contotal plan often to his room, at
any omes he was able to be about 
PLANTS OF HAWAII NATIONAL PARK Illustrative of Plants and
fine as level to loung with
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### Reprint from THE HONOLULU ADVERTISER

September 29, 1935

### Degener's New Island Flora Of **Public Interest**

### 200 Excellent Drawings Of Hawaiian Plants Included

Flora Hawatiensis, the new illustrated flore of the Hawaiian Islands, by Otto Degener. Rooks 1 and 2, 1932-1935. (83.50 each.)

Review by E. H. BRYAN, JR.,\*

scientist; but even a little child drawn picture.

That is the main reason why we way the owner may choose, believe that the general public market, there are available 200 the islands, some introduced.

By this time professional botanists are well acquainted with been known and their references; this loose-leaf flora; so it is not a careful description of the plant; to them that this review is its type locality, local range, and avenue, Honolulu. Although we addressed. Rather, we hope that other regions in which it is known. it will serve as an introduction At the top of the page is the key nomenclature, for it is hard to see for this valuable publication to some of the thousands of students. teachers, parents, lovers of Nature and of the great out-of-doors, and visitors to Hawaii, who may want to know more about the plants

gardens, along our streets, even in dices will be included. wayside fields.

#### A GOOD BEGINNING

The reader should not yet expect to find in this a complete flora of Hawaii. Degener has undertaken a tremendous task, which will occupy his time and resources has been estimated that there are at least 2,500 species of flowering plants and ferns in Hawaii. The to date are thus but a good beginning. But they include many kinds concerning which inquiries are frequent, as well as several new species; and already a very useful and valuable contribution to the subject has been made.

Pictures speak a universal lan- form, is capable of indefinite ex- cently he returned to Hawaii. guage. To understand a scientific pansion and revision. The pages description one must first learn are not numbered, but are arthe technical language of the ranged according to a simple but ingenious system of classification. should be able to recognize a well Or, for that matter, the pages may be removed and rearranged in any

should hear more about Otto page holds the illustration, the Degener's illustrated flora of Ha- other the printed data. The waii. Now that his second drawings show the leaves, flowers. volume is completed and on the fruit, and details of important parts. The other side sets forth excellent drawings of Hawaiian the scientific and common names plants. Each drawing depicts a of the plant family, genus, species, different species, some native to and authority; reference to the original description of the plant, and other names by which it has in the book.

which grow in our forests, our tain around 300 pages, for there in Hawaiian plants,

are pages which discuss the families and genera of plants and give keys by which these and the species may be separated; and in-

#### EXPERIENCED BOTANIST

Degener has been in Hawaii since 1922, and during this time he has been an energetic and enthusiastic student of the plants of these islands. For a time (1925-27) he taught systematic botany for many years to come, if he suc- at the University of Hawaii, and ceeds in carrying out his plan. It he was also Naturalist at the Hawaii National Park in 1929. He has built up one of the largest private collections of Hawaiian 200 species pictured and described plants in existence, numbering between 40,000 and 50,000 specimens. Two years ago he took his specimens back to the New York Botanical Garden, which contains one of the finest herbaria, especially of Pacific Island plants, in the world, and made an intensive The arrangements, in loose-leaf study of Hawaiian species. Re-

At his own expense he has employed and developed several collectors and student artists, who have assisted him in collecting plants and making drawings of them. In 1930 he published an excellent "Illustrated Guide to the For each species one side of the more common or noteworthy Ferns and Flowering plants of Hawaii National Park," which in addition to being what its name suggests gives much information about ancient Hawaiian customs and plant usages, and notes on the geologic history of the islands.

Copies of these books may be obtained from the Honolulu Paper Co. and other book stores, or they may be obtained directly from Degener at 2220 University may not all agree with Degener's number and names by which the old established names supplanted pages may be arranged, or by by new ones, nevertheless these which the species may be found books contain a wealth of valuable information, and the illustrations Although but 100 species are are excellent. They are to be given in each volume, these con- commended to anyone interested

### A Hawaiian Plant



FROM NEW FLORA-This attractive drawing of the familiar. wayside partridge pea is an example of the high quality of illustrations of Hawaii plants to be found in Otto Degener's new Illustrated Flora of the Hawalian Islands,

\*Curator, B. P. Bishop Museum, Honolulu.

A Young English Biologist and Explorer Writes of Savages G 10 |31 |37 Bruised by Contact With Whites 11 Times

BAVAGE CIVILIZATION. BY Tom Harrisson, 461 pp. No. York: Alfred A. Knopf. \$4. RU MARTHA GRIENING

OM HARRISSON is a young English biologist and explorer who, at the age of 22 led the Oxford expedition to the New Hebrides. His work with the expedition was ornithology, but becoming fascinated with native life he remained behind when the other members of the expedition returned to England. For about two years he lived land. For about two years he lived among the natives, chiefly at worse than nothing. Malekula, and became probably white man ever has. One result

Mr. Harrisson is not sentimen-tal about this civilization. He is blackbirders and of the govern-!less rigidly traditional. ments which protected them. He ments which protected them. He The white has yoked the is not only angry and bitter but Hebridean onto iron," mouth completely convincing on these heads, as well as on the official and missionary studiety which and missionary studiety which the demand where the natives has contributed to native depopu- cease making their difficult relationship. Within these cononary; on the contrary;

After two years [he writes], mats. \* \* \* He when I had got used to mission- wants the harsh ary manners \* \* I say with Ccutting axeert Louis Stevenson:

With all their gross blots. with all their deficiency of candor, humor and common sense.
the missionaries are still the best and most useful whites in the Pacific."

I go further: I say that if the d nothing can missionaries had come to the ceed the twid-said down and drawn salaries ded society rites and down and drawn were or the continuation of the anti down and drawn salaries | ed s until they died or were or t murdered, they would still be ous-the best people in the Pacific. I ings

worse than nothing. It follows nat-Because of this worse than urally that "by rope and as nearly one of them as any nothing, because of white greed Western standis the present book, an extraordi. and violence, occause of epidemics arus the mean-rail to the present book, an extraordi. and violence, occause of epidemics arus the mean-rail to the range of this book, to its autobiography, adventures story; duced, there has been an una crude artist in autobiography, adventures story; duced, there has been an una crude artist in trichness and variety, its poetry, travel book, history and cultural decay among the the tangible arts, at the same wholly unlikely action on a tremendous scale, the dance of life.

No review can do full justice to the range of this book, to its vigor and variety, its poetry, its vigor and breadth of outlook and outlined to the range of this book, to its vigor and breadth of outlook and outlined to the range of this book, to its vigor and breadth of outlook and outlined to the range of this book, to its vigor and breadth of outlook and outlined to the range of this book, to its vigor and breadth of outlook and outlined to the range of this book, to its vigor and breadth of outlook and outlined to the range of this book, to its vigor and breadth of outlook and outlined to the range of this book, to its vigor and breadth of outlook and outlined to the range of this book, to its vigor and breadth of outlook and outlined to the range of this book, to its vigor and breadth of outlook and outlined to the range of this book, to its vigor and breadth of outlook and outlined to the range of this book, to its vigor and breadth of outlook and outlined to the range of this book, to its vigor and breadth of outlook and outlined to the range of the range o study. It is almost wholly altion on a tremenoous scale the daubt if it is explained by the author in the of these categories. Written with Mr. Harrisson has vigorous and safe to judge axes conts introduction, the reader is incomparable zest and freshness original things to say against the culture by its of observation, it combines the widespread idea of the inevitable highest art, its; careful observation of the scien-psychological despair of the native minority pas-tist with an extraordinarily wide in the face of white civilization, sions. The inteand thorough documentation, and the face of white civilization, siohs. The intermediate of a state of the sta Mew Hebridean culture untainted for the "mysterious law of na-vidual in the Cly 1n theristic summary:

by any "white man's burden" ture which causes native races to community must

"I asked that by any "white han's outen ture which causes native races to community must preconceptions, a crisp and vigordie out before the white," and be considered. In the Hebrides left in this book, after the is at the forces in non-savage causes are only a mystery at a artist with keynote efficiency."

"I asked that a space" be considered. In the Hebrides left in this book, after the index; six pages. With the whole book in print I could civilization by which savage cividistance. On the spot they are In this connection the author parall the threads, put civilization lization has been so nearly anni-easily recognizable as violence ticularly stresses the basic con-hilated that this anger is directed, and starvation, and civilized drink, ventionality of savage life. "Heb-

merely objective, accepting and seeking to understand its limitations as well as its achievements.

His studies have convinced him that the record of the New Hebritans convinced him pretty much alike—have also the since with a stone axe with the record of the New Hebritans of the similar to saince and the since as Mr. Harrisson recognitions to the similar to saince and learn to cut down a tree with a stone axe while the similar to the si nitely superior to that of the primitive as in less primitivelin alow growth from firm roots. 
latter in many respects. Here, societies prestige has great psy. Stone implements imposed their particularly, his objectivity and his documentation are impressive, the does not see all white ex. on possessions. Among New rhythm on native life which the plorers as cruel or cunning and is the possessions. Among New rhythm on native life which the plorers as cruel or cunning and is the possessions. plorers as cruel or cunning and is the possession of pigs, which the quick cutting metal axe have humanity of two great navigators. Captain Cook and Bougainville. But he gives free reign to his of critical specifies. After 110 anger as he reviews the cruelties, of critual sacrifice. After 110 with other native as well as with treacheries and stupidities of trade contact, the inative has additional wants, but white cultures, tradition is still dalwooders, the copra dealers, the they are fewer than in a society

blade, the quick killing gun; never mind the in immaterials

ous, line drawo like Paul Klee

white man ever has. One result and violence, because of epidemics ands the Hebri-hank 2001 No review can do full justice

deans in their contact with white contributed to this decay. One the simplest. These unscientists The men over several contributes of is the New Hebridean version of have not sought better ones. For one men over several centuries of is the New Hebridean version of the New Hebridean version version of the New Hebridean version v

the dominant force in native life. As Mr. Harrisson sees it, "Tradition confines the native between, as it were, two parallel lines. One line bounds the spiritual and ghostly beliefs, often vague, the and missionary stupidity which in demand where the natives wish to join the mission or to! tiny details of domestic and foodfines the whole community is

pushed by the forces of pay-

chology in one zigzagging progression. It is as if the whole of England were one class of business man." A class who were, however, never "vandal, anti-social or mean." This is anand rubbi parently his final and reasoned appraisal, based on a full experience of savage ways, even those ways which are most repugnant to Western ideals, such as the he tohing cruelty and crudity of sex initiations which shock Western readon enter ers who may take child labor. modern warfare and other civilized brutalities in their stride stilt-li and the utilitarian practice of cannibalism which still exists in Was COV Malekula within ten miles of two radio stations, the mis stations of three denominations and the official representatives of two civilized governments.

tive. Despite an ordered plan plunged into so many curious and on the complicated aspects of both savage and civilized life that he may

all the threads, put civilization in a coconut shell. But today I am 25 and maybe I don't and disease."

Tidean art is skill guided by rules. I am guide and mayor I don't carrier all.

Certain weaknesses in the New the rules of the past and of pur- I had better head for central

Time (at last) for a quick

PICK RARE FLOWERS!



"My hero! I knew you'd finally make it!"

te for Bota

Special alumni Editor EDNESDAY, MAY 26, 1937 Ka heo a Hawali , 5/26/37

### Alumni

the dedication program at the been renovated by W. R. and Castle in memory of their

### ADMITTED TO PRACTICE

Thomas M. Waddoups was ad-itted on Wednesday, May 12, to actice law in the district courts the territory. Waddoups was opular at the university, being to of the peppiest cheer leaders at

FRIENDS GREET DR. KEMP

ttorney General and Mrs. Sam-B. Kemp invited 150 friends to est Dr. Dorothy Kemp, practicing vascian front San Francisco, at cocktail party given the earlier constall party given the earlier art of May. Dr. Kemp with Jane a Worthington was instrumental founding Gamma Chil Sigma, of the leading forocities at the liversity. She left on the Lurline, and 21, to resume her work in alifornia.

VISITING IN HONOLULU Domingo Los Banos, who was an change from Stanford to the versity in 1920-24, has been in molulu studying agricultural iniques. He is now employed the Kauai Pineapple and Fruit in Kalaheo, Kauai,

### ATTEND CONVENTION

Miss Doris Sugimura, '33, Miss N. Akinaka, '34, 'and Miss Chiko Sadayasu, '29, attended the H.H. territorial convention isers from Hawaii. They visit-with friends in Honolulu the tweekend in May.

### BON VOYAGE

BON VOYAGE
Carlos Hancey, who has been
commanded for the Board of Govmors, is leaving on June 19, for
the Lake City, Utah, where he
imper Mrs. Hancey. After a
seation on the coast, the Hanceys
if return in the early fall to return work at the university. me their work at the university.

SAILS ON EMPRESS

irs. Bertha Russell, charter mber of the Wahi-alua chapter, on the want-aud chapter, in now a teacher at McKinley, is using Saturday, June 12, on the apress of Russia for the N.E.A. avention in Detroit. Her daughans to major in physical educamat an eastern college.

### TRST CHINESE ON CLIPPER

Miss Gladys Ling-Ai Li, '30, who is been lecturing on the west ast, claimed the distinction of ing the first Chinese woman to the Clipper for the first comercial trip to China the earlier it of this month. Ling-ai, as she professionally known, was acre in Hawaii Quill work, being

### PICNIC AT KIHEI

Alumni of the Central Maui agler, led by Louis Gaspar, will ike merry with a farewell picnic Kihei Kalama park on Friday, 19 28. Clever invitations have on sent out by the secretary, in Ferreiro.

### Otto Degener '23 Reviews Book By Crawford On Hawaiian Crops

'HAWAII'S CROP PARADE" by | D. L. Crawford. The Advertiser Publishing Co. \$2.50. Review by Otto Degener. M.S., Univ. of Hawaii '23; Faculty, Univ. of Hawaii 1925-27.

When a trained scientist, a world-acknowledged authority on Hawaiian Psyllidae or Jumping Plant Lice, blossoms forth with a book on plants, both entomologists and botanists prick up their ears. The entomologists must regret that one of their learned members has forsaken their fold for greener pastures, while the botanists must welcome a valuable neophyte to a study sorely neglected in Hawaii. When the self-same author turns out to be no less a personage than the president of the University of Hawaii, because of the prestige of the position, not only the scientists but also the layman will take

President David L. Crawford in "Hawaii's Crop Parade" has given us a volume that, after some

### Wedding Bells

O'Brian will be interested to learn that Miss O'Brian will be married to Lloyd Kaspana in Honolulu, the early part of June. Graduates of the university, Edwina and Lloyd are teachers on Hawaii.

### LESLIE-WISE

Announcement has been made of the marriage of Miss Haunani Les-lie, to John Wise, Jr., football player, on Saturday, May 8, with Rev. John H. Wise officiating.

### EHLERT-GODBOLD

Ehlert and Wilfred Godbold was solemnized at the Central Union Church, Saturday, May 8, with Rev. J. Leslie Dunstan reading the marriage lines. Mr. Godbold received his B.A. from the university and law degree from Alabama.

TRIMBLE-BARRUS

Miss Estelle Trimble, 'daughter
of Mr. and Mrs. Charles Trimble of of Mr. and Arts, Charles Trimole on San Antonio, Texas, and Nelson Parruss, 38, will be married on Sat-urday, June 5. They will reside at Waialua, where Mr. Barrus is employed.

### TYLER-BROWN

With the Rt. Rev. S. Harrington Littell officiating, the wedding of Miss Elizabeth Ann Tyler to Louis Brown took place Wednesday, May 19, at St. Andrew's cathedral, Following the ceremony a reception was held at the Kanlawai home of Mr. and Mrs. Fred Harrison. Mrs. Brown is a member of Gamma Chi

Keaka, and Mrs. Mary Tyau are leaving June 5 on the Lurline to attend the Mormon convention in Salt Lake city, Utah. Following the convention the party will continue to Detroit for the N.E.A. conference and then proceed to New York. WILL STUDY MUSIC YOUR THEY DEED TO THE MUSIC TO BUT THE STUTY OF BUT TO BUT THEY BE THEN BE THEY BE THEN BE THEY BE THEN BE THEY BE THEN BE THEN BE THEY BE THEN BE THEN BE THEY BE THEN BE TH

changes, deserves a place in the library beside Neal & Metzger's "In Honolulu Gardens" and Kuck and Tongg's "The Tropical Gar-Like these two den." Like these two popular garden books it deals chiefly with the well-known or important plants of the Islands, not with the obscure ones that bloom unseen in our, mountain recesses. Unlike these books, however, it concentrates on "a review of useful products derived from the soil in the Hawaiian Islands, past and pres-ent," and is not concerned with ornamental plants. After devoting 31 pages to "Agricultural Pros-pecting" and a very readable chapter to the "Historical Outline of Agriculture in Hawaii," the author parades various crops before us in alphabetical order. On the first page stand, for instance, Abaca, Acacia, Akala, Alcohol, while on succeeding pages march such subjects as Avocado, Bees and Beekeeping, Coffee, Dairying, Eucalyptus, Frogs, Goats, Horses, Indigo, Macadamia Nut, Ostrich, Pineapple, Sugar Cane, Taro, etc. This parade, after dealing with a good 300 distinct topics, ends on page 289 with Yard-Long Bean-and Yerba Mate. The expected straggler, Zizyphus jujuba, has found his place among the Js.

At the modest sum at which "Hawaii's Crop Parade" can be procured, this work is evidently not a business venture in the literary field but the ripe result of a labor of love. It is largely a welldocumented and attractively bound compilation, compact and not interspersed with troublesome maps and illustrations. Where such a large array of subjects is given, errors are apt to appear, and in The marriage of Miss Virginia this instance their number is generously large. The reader can, by the simple expedient of pasting several pages of ERRATA on the inner covers, have a very instruc-

live reference work. It is usually wisest for the successful entomologist to stick to his bugs no less than for the successful cobbler to stick to his last. Acthi cobbler to such the reviewer's belief a book on crops to be worth, while and safe for classroom use should be written by a trained feature or agriculturist, hardly by a unit versity president perhaps dis-traught with executive duties duties, From a perusal of the plant names alone, it is perhaps fortunate for our University that "Hawaii's Crop Parade" is not an official document. Should the author retire from administrative duties this year to return to teaching, the reviewer suggests that he go back to insects, his first love, and

### not go back to plants. Students Vote For Compulsory Payment Of Dues

Students at the University think class dues should be made compulsory according to their votes in the recent election 264 voted in DOC VEDNESDAY, MAY 26, 1937 Ka heo o Hawaii, 5/26/37. 1



### Ka'u plant commemorated on upcoming postage stamp

Hawaii Tribune-Herald, Sunday, June 3, 1979-

An endangered Hawaiian plant, "Vicia menziesii," found only in the Ka'u district, will be honored nationally on a commemorative 15-cent postage stamp to go on sale June 8,

The Hawaiian name for this rare native plant has been lost since the arrival of continental man in the islands: "Vicia" was first seen by a western naturalist, Archibald Menzies, in 1794 in the upper Kapapala forest in Ka'u.

Later botanists found it on only four occasions in upper Mauna Loa forests despite extensive searching.

It was considered extinct for 50 years until Dr. Wayne Gagne of the Bishop Museum rediscovered a clump in the Kilauea Forest Reserve above 5,000 feet elevation,

A This commemorative stamp will be issued on a sheet of stamps featuring four endangered U.S. plants; three from mainland states and the fourth being this "Vicia" or wild broad bean that is a relative of the garden sweet pea.

The 'ohi'a-koa forests of upper Keauhou Ranch and Kilauea forest are its last remaining habitat, shared with four endangered species of Hawaiian forest birds.

The survival of this attractive climbing vine with colorful flowers is threatened by logging, cattle grazing and wild plgs. "Victa" is the only Hawaiian plant so far to be given official tederal and state recognition of its endangered

Otto Degener '23 Reviews Book By Crawford On Hawaiian Crops

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### DR. OTTO DEGENER

West Hawaii Today, Eriday, May 25, 1979-17

Dr. Otto Degener, author of eight books on Hawaii's native plant life, has been commended by the Hawaii State Legislature for "his contribution to the preservation and enhancement of Hawaii's wildlife resources."

Degener, presently living in the volcano area, has devoted more than a halfcentury to the study, research and compiling of information concerning the preservation of Hawaii's natural resources, according to the senate resolution.

"Flora Hawaiiensis" is a seven book reference to many plants found in Hawaii; The book was written by Degener especially for use by professional botanists. It is published in loose leaf form so that new discoveries can be added to the booklets. Degener and his wife, who assisted him in collecting the material for the books, have provided for a trust to continue the "Flora" series after their deaths.

Degener also authored and included many of his illustrations in "Plants of Hawaii National Parks Illustrative of Plants and Customs of the South Seas."

The Senate resolution stated that the people of Hawaii "owe a bottom-line debt of gratitude to Dr. Degener for his lifetime perseverance in relating humankind to the natural environment upon which we ultimately depend for survival as a species...

Degener, who is celebrating his 80 birthday this year, will receive a copy of the resolution from the State Legislature whose members feet that "this outstanding service of Dr. Otto Degener in fostering the preservation of community's precious

### Dr. Geo. B. Tuttle Ends 11 They Call It Ma'i Pake 46 Years of Work at Molokai

Without heroics, Dr. George B. Tuttle, SS. doctor in charge of Kalaupapa, is retiring. He is leaving-roday on the Lurline bound for Boonsville, Nr. Y. Lurline bound for Boonsville, Nr. Lurline bound for Boonsville, Nr. Lurline week out this doctor has been working with patients who are usually supposed never to get well. That is not true.

Within the past five years, several patients have had their leprosy arrested and they have been paroled, Looking back upon his work, Dr. Tuttle said; "The inmates of Kalau-

Tottle said: "The inmates of Kalaupape for the happiest patients of the happiest patients of the board of hospitals and settlement paying tribute to his collecture, said: There are two martyrs: the emotional and the scientific. One is martyrdom based upon the goodness of the heart. The other is a clean, hard-headed decision of the intellect.

rous nationts.

"It is not inherited." Dr. Tuttle emphasized. "Children born of leprous parents are removed promptly. We speed them out is Honolulu by airplane within 42 hours. There they are put in privide homes and subsistence for their care is provided by the territory."

The doctor continued: "There are children in Hawaii Pioday — any, leproay and get better without beweiner of the manner of course prove it. There are no skin tests for leproay. But I know that it is to fee in the subsidering the subsi

the intellect.

"Dr. Tuttle stands for the best been nicer."

Dr. Tuttle stands for the best been nicer.

Dr. Tuttle is leaving Hawaii today on the Lurline bound for Boonsville.

N. Y. eventually, where he will been taken in the treatment of leptons patients.

N. Y. eventually, where he will been taken in the treatment of leptons patients.

rous patients.

Facis About Leprosy
The physician said that it is now recognized. First leprosy is not heredized. First leprosy. It is not heredized for the person in the second people do not die of legrosy.

Dr. Tuttle went to the leper set them in 10 square miles il years ago.

When he went to the colony there were 400 patients. Now arter a large increase in the territory's population, there are but 356.

They are treated as fellow humans. There are more than 120 automobiles on the 10 square miles of land. And among the immates are automobile salesmen.

A Matter of Economics 孤忠

The mean death age on Kahupapa is about 55 years, he said. "I lands and from past records and a few of the Nilhau plants upon which cerbeen diagnosed, the patient lives an average of 15 more years."
On Kalaupapa are several people is the least important of our once poptropy with mates who are lepers. The non leprous mates have not contracted, the disease.

In the live of the Nilhau plants upon which cere
moderately modern observations of tain specialized birds depended for Nilhau, this island, next to Kahoolawe, food, these last also have become exton Kalaupapa are several people is the least important of our once poptinct. Were the browsing and trampling the property of the Nilhau plants and birds. Cut off from most herbivores removed from Nilhau, perrain clouds by lying lee of Kauai and haps a few seeds of endemic plants and birds. Cut off from most herbivores removed from Nilhau, perrain clouds by lying lee of Kauai and haps a few seeds of endemic plants and birds. Cut off from most herbivores removed from Nilhau, perrain clouds by lying lee of Kauai and haps a few of the Nilhau plants upon which cere
is the least important of our once poptinct.

Were the browsing and trampling the plants upon which cere
rain clouds is the least important of our once poptinct.

Victor Heiser write his book entitled "An American Doctor's Odyssey," recounting his adventures in 45 countries, he included his experiences in Hawaii. In his chapter called "The House of Pain." he says:

"When I made my first trip around the world in 1908 I spent a month at Molokai, where Father Damien had labored so long, At that time this place was foremost in the treatment of leprosy, The colony occupied only half the island, but the 350 inhabitants were cut off by a precipitous mountain with communication with the other section.

"Leprosy was called ma"i pake, or the Chinese Evil, by the Hawaiians. It probably had been brought out by the coolles imported for work on the sugar lantations. It had spread rapidly in the Islands, due partly to the fact that the Hawaiians do not shrink from those afflicted with disease. They had tried various remedies of their own, sacrifying themselves with pieces of glass, eating the flesh of cats, drinking Pain Killer and consulting the kahuna, or medicine man."

The chapter relates how a place of isolation had been set aside by Kamehameha, and how the U. S. government had carried on

by Kamehamena, and now the U. S. government had carried on the work when the Islands became a Territory. Concerning the political aspects of Kalaupapa, Dr. Heiser says: "The lepers also profited by exercising their franchise. The political parties of Hawaii were about evenly divided, so that the votes of the leeper could almost swing the election. Hence they were cherished solicitously by leaders of both parties.

"Native mators harangued the inmates of the colony, but took care to have the platforms erected near the shore and with palm leaf screens to protect themselves from possible contagion.

"But more substantial bait was required. The fermented taro

dish called poi was particularly delectable to the Hawaiians. One political aspirant would guarantee, in case he were elected, to provide each leper with one pound of poi a day. The other aspirant would then promise two pounds of poi. At the time of my visit the bid had been raised and each leper was entitled by law to seven pounds of poi a day, far more than he could possibly eat.

The lepers were taking advantage of their strategic position and favoring a law which would give them the right to sell the poi which had been thrust upon them and to retain the proceeds."

Dr. Heiser then discusses the cruelty, but at the same time, the necessity of isolation.

In his chapter, "A Drummer of Ideas," he pays a tribute to plantation health. He says:

and And among the inmates are automobile salesmen.

A Matter of Economics
Today, Dr. Tuttle says: "We know that leprosy is largely a matter of economics. Give the lower classes bathubs, soap and healthy food and you would have leprosy. I don't care how you do it. PWA or WPA or any other way. But give them enough of the right things to est and keep them clean."

In Norway, he pointed out once leprosy will don't care how you do it. PWA or work the enough of the right things to est and keep them clean."

In Norway, he pointed out once leprosy will don't care how you do it. PWA or work the enough of the right things to est and keep them clean."

In Norway, he pointed out once leprosy will don't care how you do it. PWA or work the established such high standards of plantation sanitation as place. The reason? A change in the economic standard for the poor. Dr. Tuttle said that Kalaupapa in the economic standard for the poor. Dr. Tuttle said that Kalaupapa in the economic standard for the poor. Dr. Tuttle said that Kalaupapa in the economic standard for the poor. Sir. In the Star-Bulletin Feb. II is cantinum, nehe, kokoola or Hawaiian along. Tuberculost is highest. Then the statement that Gov. Burns said tea. a few cucumber relatives and Nilhau's flora, birds and marine life minum, nehe, kokoola or Hawaiian are among the best examples of natu-ropean mammals such as goats, horsare and cattle the past native vegeta—

At Hawaii's receiving station. "Usually I followed the sun on my journeys . . . Generally I traveled from the Pacific Coast to Honolulu. Although we had neither personnel nor money invested in Hawaii, not only the government but also private organizations of business men were spending liberally in promoting health. The Americans in Hawaiii had established such high standards of plantation sanitation as to make Hawaii a paragon throughout the East. Here I could learn. much. The give and take in ideas exceeded that in any other

The volume is one of unusual sweep, covering as it does the

he said.

At Hawaii's receiving station.

Ralhii, during the past three years, larer were more deaths among the best examples of natu-ropean mammals such as goats, horsthese who attended patients than there were among the patients than there were among the patients than there were among the patients that the said that the ntrue passenger pigeon of the Mainland From study of comparable low is United States. With the disappearance

### HONOLULU STAR-BULLETIN, SATURDAY, DECEMBER 17, 1938

## Chaulmoogra Oil History Is Traced 'ence tands' a cure for it. All that is necessary to stamp it out is by Hawaii Scientist in This Review in prevent contagion by segregating lepers and removing enforcements are that the general population has enough to eat and keeps clean."

Monographie der Gattung Hydnocarpus Gaertner. By Her-mann Sleumer. Botanische Jahr-buecher, 69. 1:1-94 (plus 4). 1938.

Reviewed and Discussed by

The monograph of the genus Hydnocarpus, the source of chaul-moogra oil, by Hermann Sleumer moogra oil, by hermann Sieumer of the Botanical Garden and Mu-seum. Berlin-Dahlem, Germany, in apite of its technical title, is of especial interest to us here in the

evature several years before by "Acids painted on the leper's body Power and his co-workers and their work had been given wide publicity and multiply, and eat up the bacilabstracts in scientific publica-

"The ethyl esters were sold by the German firm under the proprietary name of 'antileprol'. So far as can be learned 'antileprol' was intended to be taken by the stomach. It attracted but little attention from the medical sonferior series." the medical profession, perhaps a setribution for the injustice of the patent grants. The ethyl esters are iquids which are soluble in water, thus lending themselves to use by subcutaneous, intramuscular, and jutravenous injections. Hollmann and Dean appear to have been the ty, to carry out intensive treat-tent of teprosy-with the cthyl es, ors of the faut, and of the thought of the faut, and of the thought of the esters and Dr. Hollmann implications them.



spite of its technical title, is of especial interest to us here in the splands.

Hydnocarpus, at times incorrectly called Tarakiogenos, has been one of our most costly groups of plants. J. F. Rock, famed botanist, explorer and former faculty member of the University of Hawai, was commissioned to go to Siams Parma, etc., especially to procure Indiana to the University of Hawai, was commissioned to go to Siams Parma, etc., especially to procure Indiana to the Standard Parma, etc., especially to procure Indiana the expert supervision of Charles S. Judd, were to furnish a steady supply, of chaulmoogra oil for the midal and clinical experimentation, in rearch of a specific-remedy for lengony, the malpake of the Hawaiismas.

We-spent a king's ransom over a "score of years solely in the themical study of various derivatives, chiefly esters, of chaulmoogra oil, expressed from Hydnocarty as seed. The pioneer work had duend one years ago in foreign laboratories. According to L. E. Warreff:

"In working out the constitution of the fatty acids from chaulmoogra oil, Power and his collaboratory for the parent of the fatty acids.

"In 1909 a patent was taken out in Germany by a German concern for the process of preparing the etnyl and other esters, of the same time the same time the same firm took out a patent for the products and the methods for their preparation had been described in the chemical litterature several years before by Power and his co-workers and their work had been given wide publicity.

According to Dr. Ernest Muir, and been described in the chemical litterature several years before by Power and his co-workers and their work had been given wide publicity.

According to Dr. Ernest Muir, and been described in the chemical litterature several years before by Power and heen given wide publicity.

According to Dr. Ernest Muir, and when described in the chemical litterature several years before by Power and heen given wide publicity.

According to Dr. George W. Mc-Coy "Actually this drug has a very inited usefulness. It is not certain that it is of any use at all in the treatment of the disease." the treatment of the disease."

the treatment of the disease."

Dr. L. E. Warren's statement, which should be heeded by our so-cial workers and directors of housing projects, is significant: "Lep-rosy, like tuberculosis, is a malady that the disease reproduction whose nutrition is normal rarely contracts the disease regardless of the exposure to infection. Whatever the treatment in the disease, the value of hygiene, good food and an open air life is emphasized by all clinicalss."

It is indeed a pity that the author of his scholarly and exhaustive study did not choose to illustrate study did not choose to illustrate a flowering or fruiting twis of at the sended on the disease. It is indeed a pity that the author of his scholarly and exhaustive study did not choose to illustrate a flowering or fruiting twis of at the sended in the disease.

en used to intoxicate fish to facility that their capture. Since the end of the 18th century, a lively export trade of seeds from Siam to China and Japan existed. Europeans did not learn of chaulmoogra oil until Van Rheede's mention of it in 1678. Sieumer sets us aright about the confusion of Gymocardia and Hydrocarpus oils, and briefly describer the chemical nature of the latter. Eight passes are devoted to the

the chemical nature of the latter. Eight pages are devoted to the botanical relationship and description of Hydnocarpus as a group. This is followed by about 50 pages of careful descriptions of all known kinds, 43 in all. Thereafter comes a chapter of 8 pages on the ecology, distribution and of the control of the contro chapter of 8 pages on the ecology, distribution and culture of the trees. Particular reference is here made to the Oahu plantings at Waiahole and in Manoa. Fifteen pages describe the fruit and seeds, both macroscopically and microscopically, of commercial kinds. At abel show at a glance which kinds are known as the produce of the producers of the second of the producers of the second of the to produce chauffsoogra oil, the size of their fruit and the number of seeds per fruit. Three useful kevs are added: one for determin-ing all 43 kinds of Hydnocarpus.

from leprous parents, see that the general population has enough to eat and keeps clean."

In the Hawaiian islands the kuddy, and use of chaulmoograful and its derivatives has been practically abandoned, thus ending the waste of funds that can be so profitably expended elsewhere. According to the latest expert opinion, a few derivatives are efficacious in arresting the advance of leprony. About equally beneficial results are, however, likewise gained from various derivatives of olive oil. With this discovery, our grows of Hadnon-carpus have lost their former importance and now remain little more than botanical curiosities and also to reforestation.

Dr. Sleumer, at the outer of his monograph, quotes a statement made by Rock in 1922, that Hydnograph carpus is insufficiently known and requires monographic study. With the present booklet he admirably fills this might. He devoter three pages to the history of our knowledge of the fill as a reputed remedy for skin the strength of the little pages to the history of our knowledge of the fill as a reputed remedy for skin the strength of the little pages to the history of our knowledge of the fill as a reputed remedy for skin the strength of the little pages to the history of our knowledge of the fill as a reputed remedy for skin the strength of the little pages to the history of our knowledge of the fill as a reputed remedy for skin the strength of the little pages to the history of our knowledge of the fill as a reputed remedy for skin the little pages to the history of our knowledge of the fill as a reputed remedy for skin the little pages to the history of our knowledge of the fill as a reputed remedy for skin the little pages to the fill as a reputed remedy for skin the little pages to the fill as a reputed remedy for skin the little pages to the fill as a reputed remedy for skin the little pages to the fill as a statement and the little pages to the fill as a reputed remedy for skin the little pages to the fill as a reputed remedy for skin the little page to the f ht los

### Hawaiian Foods

### From the Lectures of the Late John H. Wise

The Hawaiians must have hadthe root over for they extend to a very well balanced diet in thehiree feet in the ground.

any days, you have heard of if you were to dig it that grew their size, you have heard of their on level ground you would have fine physique, and you know thatto dig all around it to get it out can only come through good andhence in the old days we dug that proper food.

The Hawaiians had pol as their (To Be Continued January 6)

proper food.

The Hawaiians had poi as their (To Be Continued Januar basic food, poi and fish, a great combination, but they had several Degener's New ways of cooking their food and

meat and fish to make these articles very appetizing.

Taro, sweet po-tato, yam, and breadfruit the scientists tell us were imported into Hawaii - all those different fords were

Hawaiian Flora Now Appears

FLORA HAWAIIENSIS: NEW ILLUSTRATED FLORA OF THE HAWAIIAN ISLANDS, by Otto Degener. Printed by The Star-Bulletin Press for Mr. Degener. Reviewed by Clifford Gesslew

selections with the selection of the winds of the control of the winds of the winds



### Botanist Has Third Volume

By E. H. BRYAN, JR. Flora Hawaiiensis, the new il-Fiora Hawaiiensis, the new il-lustrated flora of the Hawaiian falands, book 3, by Otto Degener is published by the author.

Otto Degener, Hawaii's freelance botanist, has made available to the public the descriptions and excellent illustrations of another hundred plants found in Hawaii.

hundred plants found in Hawaii.

The first volume of his loose-leaf flora appeared in 1933; the second in 1935; and now comes the hird "century." Each is a systematically arranged series of loose leaves, which have been printed gradually during the interval between their issue in subtration with a sub-trained and the series of the serie stantial, gaily-adorned, black and yellow covers. Key names and numbers make it possible for the owner of a set to rearrange the pages to suit his personal fancy. either in one systematic mouence or by special tonics.

One page is devoted to each plant species, with a well drawn illustration on one side and notes and description on the other. Besides a detailed, somewhat tech-nical botanical description of the plant, the information includes its scientific and common names, rescientific and common names, references to synonymy, type locality and range. These species pages are interspersed with keys and notes regarding higher classification groups of plants.

One feature of this issue is an 18 page "Glossary of Botanical Terms." The student of botany pages for the protein state of the protein st

must, unfortunately, learn a new language in order to understand exactly what the botanists write. In fact, much botanical information is written entirely in Latin. But even when the scientist is supposedly writing in English, he uses a great array of technical words which have very special meanings. Some 650 of these are carefully defined, with two pages of sketches to illustrate the mean-

The loose-leaf arrangement makes possible the indefinite exransion of this flora, as well as giving the author a chance to corare between 2500 and 3000 species of plants well established in Hawaii. We look forward with pleasure to the forthcoming 22 to 27 volumes, by which time many more plants will have been introduced. The job will never be finished, but what there is is good The job will never be and to be recommended to all those interested in Hawaiian plants.

Growth Of Macadamia Nut



A sample page from Otto Degener's new illustrated flora of the Hawaiian Islands, the third volume of which has just been issued. This is the piste illustrating the macadamia nut.

New Method Discovered For Trapping Mango Flies

Experiments by Stephen Au, entomologist of the Territorial board agriculture and forestry on Kauai, in trapping mango flies have rect or change pages already is- led to what Colin G. Lennox, president of the board, characterizes sued. It is estimated that there as extremely promising as a practical way to reduce rayages of mango flies in a specific area.

"Biological control, through the introduction of parasites which will prey on the mango fruit ing all the mango flies in their flies, will remain the real swer to the problem." says Mr. Lennox.

"Meantime, trapping the flies show as many as 800 flies captured in a single trap during 48 hours.

BUT entomologists soon found. control even if parasites are successfully introduced."

trol of fruit flies.

Like many other persons, Mr. tion. Au was impressed with the man-

BUT entomologists soon found that only male mango flies were MR. AU. IN the course of his continued to do great harm to given special attention to the concontinue unabated despite reducbeing caught by the citronella. Fetion of male flies in the popula-

mango files of both sexes as the

He thought at tirst he had found the solution of the problem in the tive Kauat mokihana

More detailed studies snow however, that the females property leaving the mokihana traps, strictly alone as they did the c. ronella traps.

HE NEXT tried several types of organic matter. Finally he discovered that decaying dead man-go flies would attract female flies. In experiments, traps baited with dead mango files caught about 45 files in every 24 hours. Most important, the files caught averaged about 70 per cent females.

When the contents of the trap were not removed and water was were not removed and water was added, further decomposition of the flies made the traps even more attractive, with the result that three times the number of flies would be caught.

MR. LENNOX suggests that the owners of mango trees or other trees whose fruit have been damaged by the mango fly put these discoveries to practical advantage. He has tried a home-made trap in his own home garden with success.

Here is how he suggests the trap be made:

Place a few drops of citronella oil in the bottom of an old tin can, and make several holes in the sides of the can big enough for mango flies to enter easily. Over the open top of the can invert a glass jar.

THE MALE mango flies will enter the can, attracted by the citronella, and then fly upward to the jar, seeking light. They will be unable to find their way back to the can outlets.

After a day or so, when there is a collection of flies in the glass jar, remove the jar, taking care to cover it quickly with a piece of paper or plate so that the flies do not escape.

Put water in the jar to drown the flies, and leave the jar open under the tree. Female flies will be attracted to the mass, fly in. and drown themselves.

THERE IS no objectionable odor from the traps in a garden, Mr. Lennox says.

While the oil of citronella will attract the male files from some distance—hundreds of feet—the decayed organic matter will at-tract the females only 20 or 30

Hence, while one citronella trap is enough for a large area, the other traps must be placed about 50 feet apart from one another.

For a yard with only one tree affected by mango fly damage, he suggests one or two traps under the tree.

Au was impressed with the manner vin which citrocella oil at attempt to discover an attractant which would be asserted to the flies, Many persons which would be asserted to the flies, Many persons which would be asserted to the flies, Many persons which would be asserted to the flies, Many persons which would be asserted to the flies, Many persons which would be asserted to work to the flies, Many persons which would be asserted to work to the flies, Many persons which would be asserted to work to the flies, Many persons which would be asserted to work to the flies, Many persons which would be asserted to work to the flies, Many persons which would be asserted to work to the flies, Many persons which would be asserted to work to the flies, Many persons which would be asserted to work to the flies, Many persons which would be asserted to the flies, Many persons which would be asserted to the flies, Many persons which would be asserted to the flies, Many persons which would be asserted to the flies, Many persons which would be asserted to the flies, Many persons which would be asserted to the flies, Many persons which would be asserted to the flies, Many persons which would be asserted to the flies, Many persons which would be asserted to the flies, Many persons which would be asserted to the flies, Many persons which would be asserted to the flies of the flies which would be asserted to the flies of the flies of

### New Heart Therapy 'Could Save Over

n 95 percent successful in les and vessels, preventing the nar- have died from heart attacks over preventing heart attacks in rowing of arteries which contrib the 2-year test period. cardiac patients. 13.C.

The revolutionary treatment has been hailed as a "breakthrough." And one medical expert says it could save more than 900,000 lives a year. "It has no side effects and is successful even with patients suffering from severe heart disease or previous heart attacks.

"As soon as you start this treatment your risk of a heart attack will decrease by 95 percent," de-clared Dr. Hans Nieper of Han-nover, West Germany, who pioneered the treatment, "Anybody could use this therapy, even if they have not had a history of heart disease or a heart attack - and get the same 95 percent decrease in heart attacks as my-patients." And Dr. Gerhard Schuurmann of

Burgsteinfurt, West Germany, who's successfully treated patients with the same therapy for more than three years, praised it as a "revolutionary breakthrough."

. Nieper - a member of the mational Academy of Preventive Medicine and the American Association for the Advancement of Science - declared: "The therapy is simple - and remarkably effective. It can give years of-extra life to heart patients."

The therapy involves treatment with magnesium orotate and potas-sium orotate. Potassium orotate is simply potassium in a mineral base that carries it to the heart. Along with these, Dr. Nieper also gives the patient bromelain an enzyme extracted from pineapple stems.

Both magnesium and potassium orotate are available from Natural Foods in Toledo, Ohio, and bromelain is available by prescription. These substances are administered in pill form, four times a day. The cost would be about \$1.70 a day

There's absolutely no question of side effects - there's no toxicity," said the doctor.

The magnesium and potassium work to strengthen the heart, he said, and the bromelain acts as a "pipe cleaner" for coronary arter-

utes to heart attacks. "It's protective therapy," he said, adding that the therapy uses completely natural substances. "They're not drugs.
They're a food supplement."
In trials with more than 150 pa-

suffering from serious coronary disease or from previous heart attacks - Dr. Nieper discovered his therapy was 95 percent successful

in preventing new heart attacks.
Without the therapy, Dr. Nieper said, 24 to 30 percent of his 150 patients - 36 to 45 people - would

### Ofto Degener's Immense Work Now Two Books

FLORA HAWAHENSIS OF NEW ILLUSTRATED FLORA OF THE HAWAHAN ISLAND?, By Otto Degener, B.S., M.S.

Otto Degener, formerly botanist at the University of Hawaii (1925-27) and naturalist at Hawaii National Park (1929), at present collaborator in Hawaiian Botany, New York Botanical Garden, has now brought to two volumes of approximately 300



OTTO DEGENER

pages each his monumental study of the ferns and flowering plants of

he book is one of the sort under taken only by those who early envisage an articulated life program their days. Mr. Degener's to

And Dr. Schuurmann, who used the same therapy on more than 150 patients in his private practice, declared "Not a single one of them has had a heart attack since the treatment started. The majority of tients over two years - all of them these patients were on the verge of heart attacks when they started my treatment. They were all suf-fering from serious heart disease."

Dr. Garry F. Gorden C. Sacra-mento, Calif. - president of me American Academy of Medical Preventics - declared: "Dr. Nieper is widely regarded as a medical genius. He's developed a revolutionary new treatment for heart disease. There's no doubt whatsnever that his therapy offers new hope

for millions of Americans who suf-fer from heart problems."

Dr. Gordon used potassium and magnesium to treat over 700 of his "And 85 percent of them got dra-matic relief of symptoms," he said.

Although one-third of his patients had had previous heart attacks and all were suffering from serious heart disease, Dr. Gordon enthused, "less than 1 percent succumbed later to a new heart attack."

More than one million victims will die from heart disease in 1973. according to the American Heart Assn. "But the Nieper therapy could save more than 900,000 of those lives," said Dr. Gordon. - JOHN COOKE

and foreign Ferns and Flowering Plants growing in the Hawaiian Is-

It will give the common English Hawaiian, and the one correct sei entific name of each plant as vi as the synonyms by widen it known in other publications.
"It will state whether the plant

endemic, indigenous or introductive will give the exact range of plant in these Islands and its geral range elsewhere; and its veral range elsewhere; and i give its present and former u and such other information as may be of interest or importance. "It will include keys for the determination of families, genera and

In addition, it will contain a general description of the islands, maps, accounts of the origin of the lia-walling flora, an historical sketch walling flora, an historical sketch of Hawaiian botany, a glossary of botanical terms, an index. etc."

### HONOLULU STAR-BULLETIN, SATURDAY, DECEMBER 17, 1938

## Chaulmoogra Oil History Is Traced is necessary to stamp it out is to prevent contagion by segregating lepros and removing chadren from leprous parents, see, that the general population has enough to great and keeps clean. Monographic der Galtung Hydnocarpus Gaertner. By Hermann Sleumer, Botanische Jahrraam Sleumer, Botanische Jahrraam

buccher, 69. f:1-94 (plus 4). 1938.

Reviewed and Discussed by

OTTO DEGENER

The monograph of the genus Hydnocarpus, the source of chaulmoogra oil, by Hermann Sleumer of the Botanical Garden and Museum, Berlin-Dahlem, Germany, in spite of its technical title, is of especial interest to us here in the telande

Hydnocarpus, at times incorrectcalled Taraktogenos, has been one of our most costly groups of plants. J. F. Rock, famed botanist, explorer and former faculty member of the University of Hawaii, Burma, etc., especially to procure Hydnocarpus seed for cultivation in the islands. He was successful finding several kinds, one actually new to science. These, culti-vated in our Forest Reserve under the expert supervision of Charles the expert supervision of Charles S. Judd, were to furnish a steady supple, of chaulmoogra oil for chemical and clinical experimenta-tion in earth of a specific remedy for leptogy, the malpake of the Hawaiianta. Wespent a king's ransom over

by apartacts in scientific publications.

"The ethyl esters were sold by the Coyl Actually this drug has a Cerman firm under the proprietary name of 'antileprol.' So far as can be learned 'antileprol.' So far as can be learned 'antileprol.' So far as can be dearned 'antileprol.' So far as c attracted but little attention from the medical profession, perhaps a cial workers and directors of non-sectioution for the injustice of the patent grants. The ethyl esters are liquids which are soluble in water, the control of the patent grants are soluble in water, the control of the patent grants are liquids which are soluble in water, and disadual whose nutrition is normal disadual whose nutrition is normal. subcutaneous, intramuscular, and intravenous injections. Hollmann



OTTO DEGENER

This very early history ing rise to false rumors

We spent a king's ransom over a schre of years solely in the chemical study of various derivatives, which externical study of various derivatives, which externical study of various derivatives, which externices are considered to the pionest work had been described in the patented processes, Dean, Wrentstall, Fujimoto, the legislator garchines and control of the patented processes, Dean, Wrentstall, Fujimoto, the legislator garchines and the patented processes, Dean, Wrentstall, Fujimoto, the legislator garchines and sew others increased our knowledge of the chemistry of the coll a bit further. Their numer class will be contained to the coll and the collaboration of the fatty acids. The patent was the content of the process of preparing the city and other esters of the fatty and the patents of the patents when the content of the patents of the patented processes, Dean, Wrentstall, which patents which patented processes, Dean, Wrentstall, which patented processes, Dean, Wr

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and use of chadimogra of and its derivatives has been practically abandoned, thus ending the waste of funds that can be so profitably expended elsewhere. According to of funds that wanners according to expended elsewhere. According to the latest expert opinion, a few derivatives are efficients in arresting the advance of leprosy. About equally beneficial results are, however, likewise gained from various derivatives of olive oil With this discovery, our groves of Hydnocarpus have lost their former importance and now remain fittle more than botanical curiosities and the control of the co

carpus and now remain it it it is more than botanical curiosities and sids to reforestation.

Dr. Sleumer, at the outset of his monograph, quotes a statement made by Rock in 1922, that Hydnocarpus is insufficiently known and requires monographic study. With the present Booklet hea dominated the present booklet hea dominated from the present booklet hea dominated from the present booklet hea dominated from the more than the present booklet hea dominated for the mistory of our knowledge of the did as a reputed remedy for skin of the first part of the mistory of our knowledge of the did as a reputed remedy for skin of the first part of the mistory of our knowledge of the did as a reputed remedy for skin of the first part of the mistory of the mistory of the first part of the mistory of the end of the 16th continuous control of the confusion of Gynocarpus oil until Van Rheede's mention of the 16th confusion of Gynocarpus oils, and briefly describes the chemical nature of the latter. nocarpus oils, and briefly describes the chemical nature of the latter.

Eight pages are devoted to the botanical relationship and description of Hydnocarpus as a group.
This is followed by about 50 pages of careful descriptions of all known kinds, 43 in all. Thereafter comes a chapter of 8 pages on the ecology, distribution and culture of the trees. Particular reference is here made to the Oahu plantings at Waiahole and in Manoa. Fifteen pages des-cribe the fruit and seeds, both macroscopically and microscopically, of commercial kinds.-A tabel shows at a glance which kinds are known! at a glance which kinds are known to produce chaulhoogra oil, the size of their fruit and the number of seeds per fruit. Three useful keys are added; one for determining all 43 kinds of Hydnocarpus based on botanical characters; of for identifying the commercial kinds, based on their fruit and the nature of the rind or pericarp; and one for identifying the commercial kinds from the microscopic fea-

tief from abroad ab id. Insomuch that t ed upon in 1.363. The years 10.00 of Be that the famous trea di may 1 at Loper 1 the f point brou

HONOLULU STAR-BULLETIN, SATURDAY, MAY 28 1938 It's Not All as Easy as This!

HONO

Corned 1500 leagues from Greenland to Bering Strait: that the costs of america and Asia are close together, and that to find a nothing sequence one must go beyond the tee limit. Cook inaugurated of beard thin new principles of hygiene still followed in our day. Finally in opened to savage peoples which he visited new horizons of civilization; His ship on arriving announced to them peace, His ship on departing left them benefits.

France showed a most chivalrous spirit, in spite of the war then raging between the two nations when the English and French ships were pursuing each other in all the seas and burning all captures, M. e Sartin, minister of marine, issued the order: 'Considering the utility of the recent discoveries of Cook, the feurality of the English ships is established, and all armed yessels are to treat them as neutrals.' Spain and the American colonless both at war with England, issued similar orders to their vessels.'

ispain and the American colonless both at war with England, issued similar orders to their vessels?

"In these Pacific times, gentlemen, the Geographical Society of Paris can invoke no precedent more eloquent on this side of the channel, than observing the centennary of a man who is one of the glories of sea service and at the same time one of the benefactors of humanity."

This estimate of the accomplishment of Cook given by a Frenchman is valuable, for, if it were given by a Buglishman it might be thought perjudiced in his favor.

Is valuable, for, if it were given by an Englishman it might be thought perjudiced in his favor.

HIS CHARACTER GOOD

I have said nothing of the personal character of Cook, but a few words are necessary. It is strange that while early navigators, and also William Ellis in his journal of two years in Hawaii (1822-1824) allig live testimony as to the esteem in which the Hawaiians held Cook, and their regret at his death, yet Jarves, Dibble and others tried to deplet him as cruel and as having allowed himself to be worshipped as a god. It is postive that neither Cook nort those with him knew what the care many meant in which he took part. A like honor was paid to Capiam Douglas of the Iphigenia in 1788.

There is no space here to quote from the journals of those who were with Cook, it is enough to say that they were unanimous in expressing heir esteem, conitience and admiration for his ability. Again I will take a foreigner's estimate of Cook as it was maturally regent translated and the Hawaiian Historical Society has a copy. He wrote at length on the character of Cook after telling of his death, of which he was an eye witness. I give here the salient points.

First he gives a description of him as being "tall, handsome, strong, the word of the property of the salient points.

First he gives a description of him as being "tall, handsome, strong, the word of the property of the salient points.

OTTO DEG

give here the salient points.

Otto Degener's

Seast contradiction made him very angry. He was inexorable over among the natives the strictest punishment was meted out. He was instance that the head of the strictest punishment was meted out. He was into the regulations of the ships. I have some one of the virtues. I never once saw him drunk. He are this direction had to be followed by every soul on board. Modern tion was one of his virtues. I never once saw him drunk. He are very sparingly, much more so than any other sea officer.

"Never was there a breath of suspicton in reason."

"Never was there a breath of suspicton in reason."

the was in a rage. He was scrupulously clean, and the example in this direction had to be followed by every soul on board. Moderation was one of his virtues. I never once saw him drunk. He are very sparingly much more so than any other sea officer.

"Never was there a breath of suspicton in regard to his deather, with women. While all the men allowed themselves to be led a ray, with women while all the men allowed themselves to be led a ray, with women and the property of the state of experiments of the state of the sta

AN ADD FROM GEORGE MUNRO

It was pleasing to see in The Advertiser of October 23 Miss Josephine Soper's suggestion that there be a collection of the different species and varieties of the native Hawalian white hibiscus in the Lilluokaiani Gardens. However, I would add that the collection include all species of the native rainforest hibiscus. Perhaps even the zare Hibiscadelphius and Kokio of the direr locations could be grown there. The Hawali Audubon Society hope to cooperate with the Park Board and try them in Kapiolani Park. The Society also hope to have growing there the two native dryland forms of Hibiscus brackenridgit.

Both these varieties grew on Lansi. The treelike form with a straight grayish stem 3 or 10 feet high was a striking plant in contrast to the prostrate brownish barked variety that grew among the rocks. The low growing kind was leafless and dead looking in the dry months but beautifully green and flowering lavishy in the wet season.

looking in the wet season.

All these collections of almost unknown Hawaiian plants ventually will add considerably to the Tourist attractions of

GEORGE C. MUNRO



To purchasers of the "centuric it is explained how the loose lead are to be rearranged "in taxonom sequence." Nature does not present her products in orderly fashion

neatly classified, and Degener takes his plants as he finds them. When the search is finished, if ever, the buyer who has followed instructions

buyer who has followed instructions; will have every Hawaiian-pjant's description in its proper place.

Says Otto Degener gaily-in a communication, not in the book—
"Book III is pau and now I am ready to jump into Book IV." It takes about two years to prepare one of these "books" or "centuries," so Book IV may be expected about 1940. When the last will be finished, deponent saith not. Such enduring scientific enthusiasm hours are the same place of the same p during scientific enthusiasm, how-ever is an inspiration and the value of the "centuries" to botanists is beyond dispute

Mr. Degener is a staff member of the New York Botanical Garden and worked there during 1933-35 on technical problems not soluble

Hunt Institute for Bottanical Documentation

### Botanist Has Third Volume

Flora Hawaiiensis, the new il-lustrated flora of this Hawaiian islands, book 3, by Otto Degener is published by the author.

Otto Degener. Hawaii's freelance botanist, has made available to the public the descriptions and excellent illustrations of another hundred plants found in Hawaii.

The first volume of his loose-leaf flora appeared in 1933; the second in 1935; and now comes the third "century!" Each is a systematically arranged series of loose leaves, which have been printed gradually during the interval between their issue in substantial gaily-adorned black and yellow covers. Key names and numbers make it possible for the

numbers make it possible for the owner of a set to rearrange the pages to suit his resonal fancy, either in one sy tematic sequence or by special tears.

One page in devoted to each plant species, with a well drawn illustration on one, and and notes and description to the other. Besides a detailed comewhat technical betanical objection of the plant, the interface includes its scientific and common names, references to synonymy type locality and range. These species pages are interspersed with keys and notes regarding higher classification groups of plants.

One feature of this issue is an 18 page "Glossary of Botanical"

One feature of this issue is an is page "Glossary of Botanical Terms." The student of botany must, unfortundely, learn a new language in order to understand exactly what the botanists write. In fact, much botanical information in which the control of the contro But even when the scientist is supposedly writing in English, he uses a great array of technical words which have very special

- Growth Of Macadamia Nut

uggestions -

By GWENFREAD ALLEN Farm and Garden Editor, The Star-Bulletin

Why not vary your diet a bit an make use of wild roadside plants Otto Degener of Walalua, stamember of the New York Botanics garden, suggests this. You will fin

it fun sampling unknown to you as foods.

Guard against eating any road-side plants that have been sprayed with weed killers. Also, do not over-Also, do not over-eat when trying a new dish. Watch how it agrees with you first.

"If you like the peculiar bitter tang sometimes Pualele found in lettuce, try the pualele emilia as an interesting food," Degener suggests.

"It is found along roadsides an in gardens and cultivated fields regions of average to copious rain fall—upper Manoa and Nuuanu ar cleared land about Round Top an Tantalus. It is a pretty plant or half to one and a half feet hig with thin tender leaves, sometime purplish beneath. Its few flow heads are red to somewhat purplis and, as its Hawaiian name implie produce seeds blown from place to place by the wind.

"When gathering it, do not de stroy the plant. Leave the root are an inch or so of the stem so that cluster of delicate leaves can for for the next harvest. The entire plant especially before it has produced flowers, can be eaten raw a valid. Wife age, the stem become the strong will be a strong the strong strong strong the strong stron

But every when the scientist is supposedly writing in English, he such as a press array of feshional words which flave very special meanings. Some 650 of these are arrafully defined, with two pages of states to libestrate the meanings of 71.

The loose-leaf arrangement makes possible the indefinite expansion of this flora, as well as giving the author a chance to correct or change pages already issuedly it is estimated that there are in the south of the change pages already issuedly it is estimated that there are before the south of the change pages already issuedly it is estimated that there are before the south of the change pages already issuedly it is estimated that there are before the south of the change pages and the proposed of the east coast of Oany many and the proposed of the change pages and the proposed of the east coast of Oany many and the proposed of the change pages and the proposed of the east coast of Oany that not been special permit from the secretary of agriculture very since then I have been defended by the cooperation with local institutions I undertook this. In July, 1937, I became a proposed of the case of the east coast of Oany to the company of the company of the coast coast of Oany to the company of the coast coast of Oany to the coast of the case of the coast coast of Oany to the coast of Oany to the coast of the case of t

Berlin-Dahlem. 14.2.39.

Sehr geenrter Herr Degener.

Mit Ihrem letzten Brief und dem Zeitungsausschnitt über meine Arbeit haben Sie mir eine grosse Freude gemacht, wenn nun auch Chaulmoogra nicht die Rettung für die Leprakranken zu sein scheint. Ich habe Inren Antikel dem Prof. Schlossberger vom hiesigen"Institut für Infektionskrankheiten Robert Koch"gezeigt, der mit vielen Jahren sich mit Lepra beschäftigt hat, der man deutscherseits sofort erhöhte Aufmerksamkeit wird schenken müssen, wenn die Kolonien wieder zurückgegeben werden, was wir an unserem Museum sehr hoffen.

Ich sende Ihnen mit gleicher Post drei Exemplare meiner Arbeit, wovon Sie gleich eines an den Dr. F.R. Brunot weiterverkaufen können. Wenn Sie im nächsten Brief insgesamt drei Dollar für mich einlegen. dann sind meine Unkosten gedeckt und sie können die Exemplare ver-

kaufen wie Sie wollen.

Unterdessen ist ein Paket mit Pflanzen von Ihnen an meine Adresse für das Museum angekommen. Die Briefmarken lege ich wieder

Vor kurzem sandte ich Ihnen meinen Artikel über die Xylosma-Arten von Polynesien-Malesien. Darin sind auch Ihre Nummern erwähnt.

Mit Dank und Gruss verbleibe ich Iffr sehr ergebener

223. As to the origin of leprosy in Hawaii there is some uncertainty. Sir Morell Mackenzie quotes Dr. W. Hillebrand as having treated the first case in 1853. Dr. Dwight Baldwin, however, asserts that the disease was brought by a native chief from abroad about 1340. Be that as it may, the malady became widespread, insomuch that the policy of segregation at a point near Honor lulu was entered upon in 1863. Two years later, the famous leper settlement was established on Molokai.

years might just possibly germinate by reducing the number of goat, axis and reproduce their kind. But such a deer, blacktailed deer, sheep, mouflon-hope is very visionary indeed. The fact and pronghorn on those islands where remains that the endemic biota is the endemic vegetation and the anigone, and to try to replace it would be male associated with it are still possi-far more difficult and costly—actually ble to save. These are the higher is-impossible — than it was sending our lands with rainforests. Presently, the State of Hawaii is the laughing stock of men to the moon. Now that we have practiced geno-biologists and ordinary citizens cide, with the aid of our herds of goats throughout the world for the inane

and cattle, on the blota of Nilhau we fumbling, with God given natural recannot bring it back. All the king's sources, the sources and all the king's men cannot put Humpty Dumpty together again.

Nilhau is broken like Humpty Dumpty, the egg, in an ancient lullaby

There is, however, a future for both Niihau and Kahoolawe. These islands are largely waste land covered with kiawe, weeds and grasses of modest forage value for game animals. If Gov. Burns wishes to promote the further existence of native plants and animals -may the good Lord have mercy on the souls of those who practice genocide on His creations - he should reduce the destruction of such organisms

for Botanical Documentation



Humphack Whale

temperate zone to the south temperate zone, but does not invade the colder waters of the polar regions. Humpback whales used to be quite common about the island of Maui during the winter season, and were occasionally captured and brought to land. They are still abundant about the island and are occasionally washed ashore."

Economic Importance—This spe-cies provided the impetus for the whaling boom of 1905, in the Antarctic ocean and still provides a large component of the total catch

large component of the total catch of the whaling industry.

The amount of oil present in an individual varies. In the larger specimens which are in good health the yield may reach 75 barrels, while in-the case of females caring for large young the blubber may be entirely gone and the whole animals may net only 10 barrels of

Habits - Humpbacks occur both singly and in schools, some of which were reported to have been so large that they covered "the sea as far as the eye could discern."

These animals feed upon small fish and crustacea which they strain from the water with the aid of the binely frilled baleen structure within their mouth.

These whales have a very characteristic habit when diving or throwing the flukes out of the water. This habit permits mariners to recognize them at some distance. Like most whales they migrate

Animals Of Hawaii

By SPENCER W. TINKER
University of Hawaii

NO. 31—THE HUMPBACK WHALE
Humpback whale are the clowns
of whaledom and are consequently
slaway approached by whalers with
interest because of the antics which
these sea beauts perform.

Other whales may be counted in
things, but the humpback never, so
whalers are always at a loss to
know which way the beast will go.
Only one rule seems to hold true,
nowever, and that is that a 'humpy'
will do the thing which is least exported of him.

Distribution—The humpback
Distribu

DEDMA INDICA .- That's the name of the flower; the girl is Miss Mary Elleen Oliveira, 2080 northward and southward with the Metcalf street. The bloom, one of the magnolia family, faces downward with the leaves toward the seasons to avoid the colder weather, sky. The plant in Miss Oliveira's yard is about the size of an avocado tree, and the center of the Description-This whale known to flower resembles that of the night-blooming cereus. (Advertiser Photo by Danny Morse.)

## Description—This whate known to the learning and the war resembles that of the old Hawaiians as the kahola is probably the commonest of the Bananas Have Long Grown the ports of entry even, val.ed at about \$12,000,000 and \$0,000,000 bunches per larger whates about the islands. It is one of the most easily recognized of all of these marine adimals because of its habit of throwing its cause of its habit of throwing its. Here, But Export Is Small from the West Indies and Contral America. During the last several vears the importation from the west indies and contral america. During the last several vears the importation from the vears the vears the vears the importance of the vears the v

diving and by the presence of a BEROBERT YOSHHARA bunches has been a properly as in the from 45 to 50 feet and presents a library as the control of the cont

### ALOHA TOWER Dec. 27, 1939

By DR. A. W. SLATEN

experience. There's Otto Degener, for instance, one of Hawaii's ener, for instance, one of Hawaii's distinguished botanists. An hour or two with him in his bachelor quar-ters on Mokuleia beach took this writer to the peak of Mt. Helicon, where the Muses dwell.

writer to the peak of Mt. Heliton, where the Muses dwell.

It's impressive how any kind of superb craftsmanship—though it be altogether unrelated to your own line of work—inspires you to tougher trying for the ideal. It may be music, it may be acting, it may be acting, it may be a superbounded in the superbound of th

searches sides of streams—hunting out hiding places of shy specimens that have escaped their merited note. Patience is his philosophy and a pressed plant his reward.

The plant is taken to camp, carefully studied, accurately catalogued as to genus, species, subspecies, variety, subvariety, mutation, hybrid sport or anything else it may be, it is properly pressed, sent to the mainland for mounting on sheets of paper—work which is done by skilled women employes of the government—and is deposited as a loan with Bishop museum. The plant's yourself a diploma of membership in the Comradeship of Conscientious Among Hawait's Botanical Incog-

SEING A SCIENTIST IN HIS nitoes—Degener's Flora Hawailensis, WORKSHOP is an exhibitating three volumes of which already experience. There's Otto Dee, have appeared.

Von might think that around the you might think that around the dwelling place of a botanist you would find a profusion of rare and beautiful flowers. Not so—in this case, at any rate. Muscovy ducks waddle and quack, guinea hens chatter their endless gossip, pigeons chatter their endiess gossip, pigeons nest in cans on the ironwoods, ingeniously protected by spring traps that make any venturesome fat a suicide. But about the only plants, suicide. But about the only plants, are irronwoods and focoauts, For one thing. Mokuleia sand is not surcharged with sustenance. For another, a botanist is a botahist and botany as a science is like anatomical dissection—it deals with the

It's an inspiration, though, to be in Degener's den, to see the scientist in his workshop, the Flora Hawaitensis proofs he is reading, the pressed plant specimens he has orn, hand, the scholarly books all about, and, best of all, to listen to Degener talk.

Mokuleia beach is a long way from Mt Helicon, but a visit in the scientist's workshop takes you in-stanter to the place where the Mules

Excellent appearance THE GROUND should

Native to China this hastens establishment. Native to China masters establishment. looka like a small formed the grass will version of St. Augustine take a surprising amount or buffalo grass, is scien-of traffic tifically called Eremochfly low growing. /2/3//

in soils ranging from scientific purposes. poor to fertile—in dry. It is now illegal to harbor the sandy soils as well as snails. His Trade Head wet clavev media.

and can be kept out of shipment of bananas because of cultivated areas

least four nodes. Theseal. least four nodes. These The insect, a specific host for may be planted end to the blackberry plant, will conend in rows from four trol rampant growth of black-

and easy, low-cost main- be kept moist until the tenance have convinced plants have taken root, many home owners that Periodic light doses of a Hunan or centipede complete fertilizer apgrass is an ideal cover plied either broadcast on for lawns. The Hand of the with irrigation water

loa ophiuroides. It forms
a dense turf which requires little or no mowing because it is naturalant African snail to benefit The State Board of Agriculgourmets and scientists

HUNAN grass readily keeping and propagation, with adapts itself to exist- proper safeguards, of the vorating conditions. It thrives clous snails for culinary and

The board, in its first meetwet clayey media.

It prefers full sun but ing this year on the Big Island also succeeds in shade. also approved two other actions and Another plus factor is of its committee on arganisms:

1—Easing in some respects of that it is easy to control the embargo against inter-island

the leaf disease. The best propagation 2-Release of the schreckenmethod is from runnerssteinis festaliella, or blackberor stem cuttings with atty sketonizer, on Maui and Kau-

berries in pastures, the board

hopes.

Christmas in the 50th State is much the same as in other parts of our country. The tree usually used is a conifer. The particular species depends on what happens to be readily available. Pine, fir, spruce and Douglas Fir are perhaps the best known and more often used for this purpose. Here in Hawaii where we have no native conifers, people have long depended on imported trees for this purpose. However, for many years, the principal tree used has been the Douglas Fir of which over 100,000 are inported annually from the Pacific Northwest. This species makes an excellent Christmas tree, but they are harvested early, and many of them reach Hawaii about Thanksgiving time coming as deck loads on a freighter. By December 25, some of them are pretty sad looking. Another thing wrong with Douglas Fir as well as some other conifers is the fact that they do have dangerous insect pests, which, under present plant inspection and lax quarantine regulations, are likely to be brought in and these may have a very serious effect on our expanding timber industry.

Hawaii does have locally grown substitute trees, among which is the Mexican Cypress (Cupressus lusitanica), which is shown here with the grandchildren cutting their own for 1961. It is a rapid growing tree (reaching 5 ft. under favorable conditions in twelve months' time); and it is acceptable in Hawaii. Presently efforts are being made to grow all of the trees required here for Christmas consumption. Douglas Fir will grow and grow well dove 5,000 ft. in elevation, and several species of true pines will grow at lower elevations. Other species which are produced locally and used to some extent are Norfolk Island Fine (Aracauria excelsa), and Sugi (Cryptomeria japonica).

1962 SEASON'S GREETINGS!

Irms and Bill Bryan



oo Victoria 100 Vitis TOR Walthouis 11 dizyohus

### OHA TOWER Ha. 5 tan But By DR. A. WYSLATEN SEEING A SCIENTIST IN HIS nitoes—Degener's Flora Hawailensis. WORKSHOP is an exhibitating three volumes of which already experience. There's Otto Deg-have appeared.

all the world over, and one artist spurs on another.

Degener is an artist in the discovery and identification of hitherto unclassified. Hawaii plants, the takes his car and list trailer, establishes camp, then fraternizes with fields, tracks mo a int a in trailet, searches sides of streams—hunting out hiding places of stry specimens that have escaped their merited note. Patience is his philosophy and a pressed plant his reward.

Mokuleia beach is a long way from Mt. Helicon, but a visit in the stanter to the place where the Muses stanter to the place where the Muses.

The plant is taken to camp, carefully studied, accurately catalogued as to genus, species, subspecies, variety, subvariety, mutation, hybrid, sport or anything else it may be. It is properly pressed, sent to the mainland for mounting on sheets of paper—work which is done by skilled women employes of the government—and is deposited as a load remain and the state of the mainland for mounting of the contradeship of Conscientious and the state of the state of

experience. There's O(10 Degreener, for instance, one of Hawaiis distinguished botanists. An hour or two with him in his bachelor quarters on Mokuleia beach took this writer to the peak of Mt. Helicon, where the Muses dwell.

It's impressive how any kind of superb craftsmanship—though it be altogether unrelated to your own line of work—inspires you to tougher trying for the ideal. It may be altogether unrelated to your own line of work—inspires you to tougher trying for the ideal. It may be music, it may be portraiture, it may be anything, for whatever is may be anything, for whatever is more well stimulates us to do our own task better. There is, so to speak, a contradeship of craftsmen all the world over, and one ariist spurs on another.

Mokuleia beach is a long why from Mt. Helicon, but a visit in the scientist's workshop takes you instanter to the place where the Muses

today denied that he had. "In-suited" Dr. Joseph F. Rock. Dr. Rock, noted botanist and othnologist, has resirred as re-search professor in Chinese cul-lure and withdrawn a \$250,000-cit offer hecause, he said, of Crawford's insulta

"If there was any insult it was in the way he took what I said." Grawfort added.

He would not discuss the "The malter-is entirely in the

"The malters mentirely in the hands of the board of recents committee." Dr. Crawford said. Dr. Crawford expressed the be-lief that Dr. Rock's decision to

lief that Dr. Rock's decision to unit had been "growing in his mind for some time.". Dr. Rock said he had disagreed with Dr. Cranford regarding the care of his collection of Oriental cooks in the course of which he Time insulted

### 91121401

staffs, and administrative officers serving under Crawford have been rted to insults and humiliation as was imposed recently upon great scientist, Dr. Joseph F to mankind and to science deserved something far different from the treatment he received anowing the university Head's capacity to hurt and to threaten his underlines, no matter how superior they may be to him in training, intelligence, ability, and kindess to fellow human beings, we a are forced to the conclusion that our recent distinguished visitor and would-be benefactor of the University of Hawaii spoke justly. deliberately, and without misinterpretation, when he declared he declared he could endure the damage to his books but could not take President Crawford's insults. The President is noted for the wise distinction he draws between those over whom he wields the sword and those who are in a position to determine his fate, the Regents. One of his frequently used expressions is, "Do so-and-so or perhaps you would find things more to your liking elsewhere." Another is, "Do so-and-so or there will be some surgery." These are his ways of dealing with the cultured, educated. refined folks who serve the University of Hawaii and are responsible for the higher education of our youth. We understand now that the great gift of a quarter of a million dollars in value has gone to Harvard, a noble institution which will use the rare collection Nevertheless, we grisve deeply because we believe hoyend

a doubt that this particular gift was the just horitage of our own university and would have given new strength to the siresdy floundering Oriental Institute, that splurge which was twin to the faded-out Graduate School of Trop ical Agriculture

### TO BLITZKRIEG

Forced retirement of Davis I. Crawford, as president or the University of Hawaii, in now declared to be on the must schedule of several local prominent civic leaders. who up to now have laid octhis move in deference to Charles R. Hemenway, who retired this week as chairman of the board of recents.

It was also learned that Hemarway with his retirement will tak a neutral position and let naturtake its course. He is said also have even lost his old enthusias. for Crawford, the result of the resignation of Dr. Joseph F. Roc. noted scientist from the U. H. facelty and Dr. Rock taking his priceless book collection away from 15 University to give it to Harvar-Dr. Rock declared he could nostand any more insults from Cra-

### IN CHINA'S RORDER PROVINCES

The Turbulent Career of The Turbulent Career of Joseph Rock, Botanist-Explorer

HERE IS a most extraordinary disclosure of life in China's remote and mysterious Western Provinces. Unseen by diplomats, rarely penetrated by travelers, the border states of Choni, Muli, and Yungning are exposed as baving been dominated Yungning are exposed as having been diffinance by by oppressive rulers, exploited by military facby oppressive rulers, exploited by hindary tions, and ravaged by bandit raids. Few foreigners at the property opened 2. were welcome, yet "kings" and peasants opened their doors to a civilian scientist, Joseph Rock. who for nearly twenty-seven years (1922-1949) lived among them for the simple purpose of collecting plants for western museums and exploring and mapping mountains on the Tibetan border.

Joseph Rock was a self-made botanist. Austrianborn and naturalized American, who relished his solitary career in a society far different from his own. Funded by American museums he lived in style, was sought out by the Chinese rulers, most of whom were adolescent in their perceptions, and moved into the wilderness with an escort of soldiers and a group of carriers and muleteers. He

by S.B.SUTTON The Turbulent Career of JOSEPH ROCK Botanist-Explorer

of Cho-mi in West China, I bequeath to the Deutsche Morgenländische Gesellschaft, Marburg/Lahn, West Germany, with the hope that full use will be made of the material; also all my manuscript maps of West China.

Item VIII: All clothing, wearing apparell, shoes, hats, etc., I bequeath to my nephew Robert J. Koc, Wittelsbachstrasse 4, Vienna II. Austria, of which I may die possesend.

Page II (Two)

In the event of the death of the said Paul R. Weissich of Honolulu, Hawaii, prior to my death I appoint Allen Stack of Honolulu, Hawaii, as my sole executor. I hereby direct that no bond shall be required from the said executors as such.

In witness whereof, I have hereunto and to the preceding page hereof set my hand and seal at Honlulu, Hawsii, this 14th day of April, 1962.

Signed, published and declared by the said Joseph FL Rock as and for his last will and testament, in the presence of us, being present at the same time, who at his request, in his presence and in the presence of each other, have hereunto subscribed our names as witnesses to the same this 14th day of June 1962.

Honolulu Hawaii THE HAWAII SENTINEL SEPTEMBER 19, 1940 ThE HAWAH SENTINEL

Mo Insult' Says

DEP DESIGN IL GERWENTEN PRASE

Crawford In

Reply to Rock

President of the university calcu-

tics on men and women of high intelligence who happen to be in

his power and need or desire to keep their positions on the faculty

and staffs of the university. We

### Samoa, a New Responsibility

By Joseph Driscoll.

neep to meet the problems which President This is we have created for them.

Politically, there are two Samoas.

American cestern's Burnot includes a seen all the leisness of the Samoan group them to be seen all the leisness of the This cester of west on any longitude. British (western) Samoa on the seen and the see

on the white shadows in the South passed through Seas, on the coming of missionaries the Samons who brought Chesting the Samons who was the Samons who Seas, on the cought Christianity to idol-pressed in who brought Christianity to idol-pressed worshiping cannibals, and sailors soldierly in traders and wastrels who brought eral from the white man's burden of corruption and disease to the simple which sails the control of the who brought Christianity to idol-pres nature-loving islanders.

nature-loving islanders.

Today the red shadows of war are the native comoving throughout the South Seas 18th his battles, since and effecting changes that may be an extrison the life for good og III. Was his broughtwhile mine artificial prosperit, bith wages and install the life of the life o

or sticking a pig on chicken.

After the war is won, and we have no urgent need for native workmen has to build airfields, highways and hutsmer for our armed forces, shall we com Reserve

AMENICANS by the thousands and the of thousands have passed through Samos on their way passed through Samos on their way to battle in the Solomone and New Course of the Solomone and the Solomone and New Course of the Solomone and the Solomone and New Course of the Solomone and the Solomone and Solo cussions In the vars to come. " starring the

of the rincesses, were barefoot. The royal officer amilies of Samoa are fairly demothe Kps cratic, but to them the wearing and proud of shoes is still the brand of the representa-commoner or half-caste.

resigned As long as we have any interest in we service the world of the Facility Santos will be important to the United States. Resilection of this came a few days Roosevels after Fair Harbor, was in-cise at the South Seas.

peace Besides, they area

off with \$50 a Pan

to build sirileids, highways and hutfor our armed forces, shall we come measure
placently dismits them from our month prints for foreign from the prints of the place of the prints of

the iron gate of the marin "We live by deeds-not a

**Grove Farm Will** Put Silver Oak Wood on Market

(Special Star-Bulletin Correspondence PUHI, Kauai, Jan. 24. Silver on a finishing wood new to the trade in Hawaii, will soon be placed on the market by the Grove Farm Co., Ltd., according to William P. Alexander, manager.

The silver oak, Mr. Alexander said, is a semi hardwood which will compete with Filipino mahogany for cabinet work, paneling and fur-niture making. The wood takes a high polish, has a beautiful fine grain and is a light beige in color with tinges of red in the grain. Portion. of the silver oak panels resemble the fanciful grain patterns

resemble the fanciful grain patterns of the Hawaiian hau.

The silver oak will also take stains well, he said.

Mr. Alexander said that the venture in this fine lumber is due to the foresight of the late G. N. Wilcox, founder of the Grove Fam.

Mr. Wilcox made a 10 acre planting of seedling hard wood trees about 40 years ago on the land to the rear of the Lihue Union church. The majority of the seedlings were the silver oak, which he had obtained from Australia.

The trees in this lot are now at maturity. They are 40 to 50 feet tall and of fine quality for making

lumber.

The plantation officials decided that it was time to begin cutting the trees this year when they found that many of the larger trees were

small sawmill which is operated by a tractor diesel engine on the site of the grove. The lumber is being stored in a warehouse for proper

Mr. Alexander said that the mill-ing operation will give employment to certain skilled workers on the plantation during slack seasons.

Degeners Have Guests

From Honolula Dr. and Mrs. Otto Degener are Dr. and Mrs. Otto Degener are Hollywood visitors at the home of Dr. Degener's brother and his md wife, Mr. and Mrs. Armin Degener of 3370 Deronda Ave.

Dr. Degener is an internationally known authority on the flora of the South Pacific. de member of the Botanical Society

arry of New York, he has had more he than 100 books on botanical subthe jects translated by the German assegovernment for use in libraries in Germany.

in Germany.

Mrs. Degener, who is known professionally as Dr. Isa Degener, is also a well known botanist. The couple have just returned from a year in Europe and are en route to their home in Monoiulu 2/2 3/54

The survice men and of the limb was contemplating to action. Jos & American Orience in the Oce of the Sectors that is ex- Constructs

ment of linemir, who came to Ma- ting.

expenditure of the large federal federal funds. highway fund, which was lapsed | And how this bureaucratic setup

This money will now to used to Crawford's report shows that

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Cooks Plants

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Some Cost

It was also learned that Balch sensol is now over a million and a on alien controlled and owned will be superintensent in name ogarrer collars a year. The school newspapers and periodicals, will be over Howail's potential national de- cost of cineating a student is ense roads, hirports and hartor around 1500 a year, of which a student contributes on \$100 a year Sincinir it was curred will be tuition fee. The other four hunliven the job of cooperating with dred a year per student comes out the army and navy officials in the of the local taxpayers pocket or

tack to the federal government under Crawford fares well, is eviwhen the legislature failed to ap- dent with the employment of over propriate matched manay. 500 employes to administer to the

unid calltary highways and 75.6 of very foliar expended by or the direction of gray and the university is paid out to salary access the will also have under his furreacrait.

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university, which is not equipped born citizens and tracking them bemilet o present to the appoint- such in medicine, law or engineer- with a merican covernment concents.

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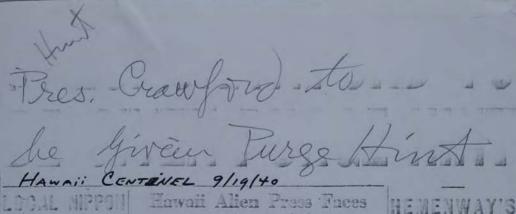
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### TO AID MILITARISTS

Charges that the local branch of a Nippon bank is funds for Japan, to carry ou

It was learned that latters have here this week. been andressed to thousands of Japanese in Haweil to deposit as much as possible of their money in the local Nippon branch bank.

Ask Hawaii Ald

The writer is also known to have addressed many of these letters to American born Japanese and makes it plain that the money is to be used for. He declares: Gentlemen.

and activities.

Holy War

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milities with recommitted to make and

### MAILING PRIVILEGE HIT

By JOHN K. LYNCH (Special to Sentinei)

WASHINGTON, Sept. 19.—Possible early passage of a L. Crawford, as president of acting as agent to collect war bill which would put under strict license all alien owned and the University of Hawari, is tands for detail, to carry all controlled newspapers and periodicals, as well as alien schools now declared to be on the strated by federal men, which are charged with being responsible for instilling an input schedule of several inallen facology, into American born citizens, was predicted

> This bill is declared to have the backing of the same group which subsidy to an alien controlled shippushed through congress the bill ping company, which might estabwhich provides for loss of Ameri- lish an office in the United States. can citizenship by those who spend more than nix months in their ra. this alien controlled press is a pow-

> > Nisein Hit

This alien residence bill was simed at the Japanese both in Ha-Greetings upon your fine health waii and continental United States. papers. who go to Japan and become Nip-Tour ancestral land, Nippon, pon conditioned and then return unthat cannot be forgetten even in der the name of Misei, with dual your dreams, welcomes the 2500th citizenship, demand all the rights year of the Imperial Rule of the and privileges of full American Mieji Dynasty and now its people citizens, often being used by alien bend their hearts and energy to parents and relatives to net as raise Asia through victory, watch fronts for them in ownership of land which is denied ...lens.

One member of the congresfor three years this holy war closed rounds declared to be pushthe continues to me too in might the time hat here then gas the farm of eventating places ATER workspen out tunoucula a maxime of ports of Lames of the state of the

It was also been pointed out that cial land, without reasonable cause, erful factor in Hawaii election campaigns, influencing American citias the owners of the alien news-

Proof of the alien tisup of these newspapers in Hawaii was revealed by the fact that they are serviced by a special free news service, sent Dr. Rock declared he could not out daily from a Tokio controlled news agency, which specializes in ford. Nippon colored news.

These alien newspapers were also charged with being the main facfor in blocking Americanization of under the from certain real Amer-Haweii born Japanese through on groups, who charge that the annual to said to save terrorizing arcraity is a lot bed of miss in the Takin breign romaganca bougints, those bilineace is the

ALLE THE CAP

### TO BLITZKRIEG

Forced retirement of David car prominent civic leaders. who up to now have laid out this move in deference to Charles R. Hemenway, who of the board of regents.

It was also learned that Hersanway with his retirement will take a neutral position and let nature take its course. He is said also to have even lost his old enthusiasm zens of the same racial stock for Crawford, the result of the resignation of Dr. Joseph F. Rock, noted scientist from the U. H. faculty and Dr. Rock taking his priceless book collection away from the University to give it to Harvard. stand any more insults from Craw-

#### What A Moss

Crawford it was also learned in mical to the American concepts, al

They are the charges with the avenue are T And he are a real which is world in browned a

Hunt Institute for Botanical Documentation

HAWAII CENTENEL 9/19/40

## DEPOSITS

TO AID MILITARISTS

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Programme of the second

Charges that the local branch of a Nippon bank is acting as agent to collect war funds for Japan, to carry on its war on China were being stigated by federal men week:

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Gentlemen.

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Holy War our whole pountry.

Plating toward your apeastore in economic survival. | band ben how published to a local newspaper and on reading it I am making to state my schools feel, ad out that the granting of this

### Hawaii Alien Press Faces Curb By Congress; Activities Questioned

MAILING PRIVILEGE HIT

By JOHN E. LYNCH

(Special to Sentinel)

WASHINGTON, Sept. 19,-Possible early passage of a L. Crawford, as president bill which would put under strict license all alien owned and the University of Hawaii, is controlled newspapers and periodicals, as well as alien schools which are charged with being responsible for instilling an alien ideology, into American born citizens, was predicted here this week.

This bill is declared to have the backing of the same group which subsidy to an alien controlled shippushed through congress the bill which provides for loss of American citizenship by those who spend more than six months in their racial land, without reasonable cause.

#### Nisels Hit

This alien residence bill was simed at the Japanese both in Ha-Greetings upon your fine health wail and continental United States, who go to Japan and become Nip-Your ancestral land, Nippon, pon conditioned and then return un-that cannot be forgotten even in der the name of Nisel, with dual your dreams, welcomes the 2600th citizenship, demand all the rights year of the Imperial Rule of the and privileges of full American Mieli Dynasty and now its people citizens, often being used by alien bend their hearts and energy to parents and relatives to act as raise Asia through victory, which fronts for them in ownership of land which is denied aliens.

One member of this congres-For three years this holy war sional group is declared to be pushhas continued and we are all glad ing the point that these alien that the dawn of sverisating pance owned newspapers and periodicals is breaking in Asia. Still we must should be barred the right of a continue with strong will to units second clear mailing privilege, which is practically a government Turner this time your aincere sublidy to aid the American press

#### EM Provisions

This member of congress point- sens.

ping company, which might estab lish an office in the United States.

It was also been pointed out that this alien controlled press is a powerful factor in Hawaii election campaigns, influencing American citizens of the same racial stock as the owners of the alien news-

Proof of the alien tieup of these newspapers in Hawaii was revealed by the fact that they are serviced by a special free news service, sent out daily from a Tokio controlled news agency, which specializes in Nippon colored news.

These alien newspapers were also charged with being the main factor in blocking Americanization of Hawail born Japanese through campaigns said to have their origin in the Tokio fereign propagands

### Allen Press Corb

They are also charged with being behind the drive to keep lag as a dual citizen group ration; than as full fledged American citi-

### HEMENWAY'S RESIGNATION OPENS DRIVE

TO BLITZERIEG

Forced retirement of David now declared to be on the must schedule of several lacal prominent civic lead who up to now have laid off this move in deference to Charles R. Hemenway, who retired this week as chairman of the board of regents.

It was also learned that Heman way with his retirement will take a neutral position and let nature take its course. He is said also to have even lost his old enthusiasm for Crawford, the result of the resignation of Dr. Joseph F. Rock, noted scientist from the U. H. fasulty and Dr. Rock taking his priceless book collection away from the University to give it to Barward. Dr. Rock declared he could make stand any more insults from Craw-

#### What A Mean

Crawford it was also learned to under fire from certain real Amouionn groups, who charge that the university is a bot bed of alless ideologists, whose influence is inimleal to the American concepts to government.

Two mumbers of the senale are stready on record as placeed to American born Japanese function probe the activities of an isold admitted Nam professor, whose university salary is uply \$550 a mesents, which could not trustee his social sutortal missia for the comed

Hunt Institute for

to Dan Balch, who got this week the job of superintendent of public works and chairman of the harbor board, following the death of Louis Cain

This is the second key position within the last year that Washington her taken a hand in selecting the mike to head territorial department.

the board of health, made vacant by the death of Dr. Trotter, was filled on recommendation from Washington, by Dr. M. F. Haral- Pres. Crawford to son, formerly connected with the United States department of Health in Washington.

The appointment of the Washington doctor is declared to have had behind it the idea that the in-1 local hyphenated politics.

25,000 service men and of the first was contemplating no action. line of American defense in the ing politicians.

Get Man

ment of Sinclair, who came to Ha- ing. waii under orders from Washington to superintend PWA projects.

. over Hawaii's potential national de- cost of educating a student is will be Sinclair.

expenditure of the large federal federal funds. highway fund, which was lapsed And how this bureaucratic setup propriate matched money.

Handle Airports

build military highways un- 75.6 of every dollar expended by der the direction of army engi- the university, is paid out to salary neers. He will also have under his bureacrats.

letty meas, over the appointment cent came from public sources, election to the large of two Washington malihinia to 22.6 from territorial appropriakey territorial positions. As as tions, 23.7 from student fees, 18 sistant superintendent of public per cent from auxiliary activities works, Sinclair will sidestep a pos- and the other small percentage sible confirmation fight in the came from miscellaneous sources.

What may happen when Dr. Heralson comes up for confirmation is cut the critics of Crawford a ma-The appointment of the head of not predictable at this time until pority of students to really comit is seen what the setup of the plete their education must, in the next senate will be. 16 40

### Be Given Purge Hint

(Continued from Page 1) Backs Nazis

terests of Washington could better been called to the attention of Mainland educator, who will not be served by the placing at the Crawford, by both local people and be handicapped by an oriental bias head of the board of health a man federal men, and is now subject and create a faculty the equal of who would be more responsive to for discussion in national maga- any first class American college on Washington, than to the whims of zines. Crawford has not appeared the Mainland. to desire any advice on this sub-Also it is understood that Wash- ject and with the return of this Hawaii Alien Press ington felt that the health of her Nazi educator, announced that he Faces Curb by

One of the factors that is ex- Congress Pacific, might better be served by pected to push Crawford back into a Washington official than one sub- possibly more activity as a direcject to the pressure of alien think- tor in local Big Business, is the veloping into possible fifth column excessive cost of maintaining the cells, working out on American university, which is not equipped born citizens and teaching them by This appears to be the same to give a degree in professions word or book, doctrines in conflict feeling in respect to the appoint- such as medicine, law or engineer- with American government con-

Some Cost

It was also learned that Balch school is now over a million and a on allen controlled and owned will be superintendent in name quarter dollars a year. The school newspapers and periodicals, will be only. The real man who will watch handles around 2200 students. The fense roads, airports and harbor around \$500 a year, of which a student contributes an \$100 a year Sinclair it was learned will be tuition fee. The other four hungiven the job of cooperating with dred a year per student comes out the army and navy officials in the of the local taxpayers pocket or

back to the federal government under Crawford fares well, is eviwhen the legislature failed to ap- dent with the employment of over 500 employes to administer to the wants of 2200 students.

This money will now be used to Crawford's report shows that

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wan's over-statehood conscious leg. | federal gavernment is seen to neve | islators from stirring up a pub-

Yet, with this expenditure, point case of Japanese, in most cases go to Japan, or if a hacle or other race go to the Mainland United States.

The move of those who are efter Crawford's scalp is said to be the complete reorganization of the university and replacement of The activities of this man had Crawford with some outstanding

(Continued from Page 1)

Possibility that all those, both The cost of maintaining this alien and American born working

uel Wilder King, who I known here to be depended of Japanese-American ve Hawaii. But in spite of hi sition the bill is expected as did the bill voiding A citizenship of those who as much time in their racia getting conditioned as alies

### Local Nippon B Seeks War Depo

(Continued from Page the Sumitomo Bank side t nomic situation at home although you are in a country, you are doing a gra lie service

The Sumitomo Bank for ored over the responsibility ing as agent in a matter w presses the glowing love ancestral land and the will tional service.

Therefore, we make the conveniently handling this

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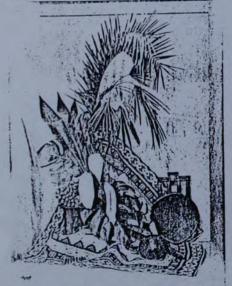
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MUTUAL TELEPHON lunt Institute for Botanical Documentation

#### Hawaiian motif

A Toront of the South Seas was evident at the Thirtyfourth International Flower Show held at Grand Central Palace, New York City, recently. There Mrs. Howard S. Perry decorated a niche with tropical foliage, tapa and kawa bowls. It was "an interpretive composition honoring an outstanding botanist or naturalist who was a native of the Pacific Islands or did his main work there." The man selected for the year was Otto Degener, resident of Oahu since 1922, and author of several books about Hawaiian plants and native customs and, last year, of his Naturalist's South Pacific Expedition: Fiji. This last work describes his eight months' exploring for plants in the Fiji Islands as guest botanist on Mrs. Anne Archbold's fabulous junk-vacht Cheng Ho. It was during this trip that Mr. Degener discovered a tree belonging to a new plant family that now bears his name.



Hawalian arrangement at New York show. Photo Boutrelle.

ments against statchood compage with the protests against annexation.

—Carl S. Carlsmith Hilo, Hawaii

We have an article on that very subject coming up next issue. Ed.

### CHENG HO ADVENTURE

I herewith enclose a photo of the elaborately decorated stern of the Cheng Ho as a post-script to your recent article about that vessel. It



was snapped in Fijian waters just before the war. I was Mrs. Archbold's guest-botanist at the time, commissioned jointly by the New York Botanical Garden and Harvard to collect new and rare plant specimens.

and rare plant specimens.

I purchased the Cheng Ho from Mrs. Archbold in 1946 and six months later founded the Cheng Ho Trading & Exploring Company, Ltd., with Capt, de-Bisschop and associates. Since I am not interested in trade, but in botanical exploration, I shall make only one trip a year on the Cheng Ho accompanied by a friend scientist eager to iton me in research.

I am at present seeing my book on my Cheng Ho adventure in Fiji through the press. When that is pau, I shall be

ready to continue exploratory work. Ferhaps one of the scientific readers of Hawalian Digest will share the luxurious aft cabin with me at that time.

Otto Degener Mokulela, Oahu

### HAWAIIANA-CALIFORNIANA

Last summer I ran across a blt of Hawaliana-Callforniana which I thought most interesting. According to one of the stories in G. E. Dane's book, "Ghost Town," Kamehameha IV ordered a fire engine which was shipped around the Horn as far as San Francisco. While the engine lay upon the docks awaiting shipment to the Sandwich Islands, the local firemen had seen and admired it in fact they decided to try it out. After that, it seemed a shame to let such a fine little engine rust away at the Embarcardero. Consequently, It was housed in the station, and it proved to be such a light, handy engine that they eventually lost interest in whether Kamehameha ever saw it or not.

Meanwhile, as time went on and no Royal fire engine arrived in Hawali, King Kamehameha set up inquiries which in due time spread across the ocean to the Golden Gate. So, the San Francisco firemen decided to unload the evidence.

The result was that the engine was bought by a committee from Columbia, California, a rip-roaring town which had twice burned to the ground. There she was known and revered as old Number 1, and 1 believe that If you go to Columbia today, you will find her holding a position of respect in the community.

Mildred E. Shell Fullerton, Calif.

Hawalian Digest

2

By 1929-50 concentrated collecting in the Section that now is Haw. Yolc. Nat. Park has resulted in what may be considered "Time Capsules", of carefully processed plants presently located at the University of Massachusetts (my Alma Mater), New York Hotanical Gardan (of which Ers. D., & I have been staff members for many years), Smithsonian Institution (which is closely associated with the Astional Porks), and Gray Herbarium of Harvard University; as well as in smaller institutions. One such institution is the local Bishop Euseum. Being so close to our hunting ground, we Assa no purpose in "shipping coals to Nawcastle" when that institution is already bulging with local specimens.

Though Mrs. Degener & I have owned an alternate home on the border of the Park in the village of Volcano and have been honored with collecting permits, we have seldom made use of them. It is unnecessary as practically all the plant taxa we see I collect-

ed in quantity fifty years ago. .

As the delicate native vegetation succumbs more and nore to aggressive exotica, in spite of heroic efforts by Park personnel, "time capsules" are of inestimable value. One instance, is the Hibiscadelphus siffardianus first described by J.F. Rock, exterminated in the wild state. The last tree grew on the edge of a collapsed lava tube in Ripuka Punaulu, All state. The last tree grew on the edge of a collapsed lava tube in Ripuka Punaulu, and supposed legally to the browsing of Hereford cattle belonging to Brown's Hanch. I took a flowering twig for the making of the illustration in my Park book in 1929. All time capsules have good specimens of the unique plant, truly a National Treasure. Those are not from twigs I could have out from the last tree, but from fallow flowers and leaves that I frequently gleaned from the ground about it. Evidence of this action is in their appearance with an abscission layer or an injury. This remarkable species has been saved to the present day from extinction by the wisdom of Geologist Howers appears who distributed seedlings grown in time about twenty years ago.

In closing, we consider a working herbarium at the Park indispensible for Naturalists and Rangers, byt we disapprove of collectors limiting their pickings to just a specimen or two. Having seen what can happen to museums during wars, and might happen during volcanic eruptions, tsunamis, and other Natural disasters, we strongly recommend that duplicates be salted away at the Smithsonian and elsewhere to insure the preservation of at least some fragments somewhere for future individuals to admire and study.

De Otto Degener de Vaturalist. Haw: Not. Park Naturalist. Haw: Not. Park 1929 eccording to current usage.

DRS. OTTO & ISA DEGENER P. O. Box 154 Volcano, Hawaii 96785, U.S.A

Ester 1984

Dear Supt. Ames:

Mrs. Degener & I were delighted to meet former Maturalist Mitchell who published with Pagerlund some years ago importantly concerning the Park. He expressed his surprise that the Maw. Yolo. Nat. Park Herbarium lacked plants collected by the

Degeners. Here is the verbose explanation/:

My sister & I came from New York City as tourists to the Kilauea Section of our Hawail Mational Park in 1922. Just graduated from the Mass. Agr. College (soon to become the University of Mass.) in Amherst as botanist, I received permission from Supt. Thomas Boles to collect plants in the Park while residing in the Yolcano House, since & The Don't fire. I enclose a herbarium sheet of a fern I collected along the Byron Ledge Path Dac. 14, 1922 for the Park collection.

Fascinated by the Mawaiian Islands and convinced I should publish a Flora of the Islands to replace Hillsbrand's excellent work published posthumusly in 1888 and hence out of date, I enrolled at the University of Mawaii to specialise in local Botany and receive my Master's in 1923. My thesis, "Cametophyte of Lycopodium cernuum in Hawaii" was based on the unusual growth of wawaeiole in Kilauea fumeroles. I published

in the Bot. Gaz. 80:26-47. 1925.

I returned to the Mainland with my collection of Hawaiian herbarium specimens to stu dy them critically in amerat and New York, receiving credit toward a Boctoraterom

Columbia University while doing so.

In 1925 I returned to Konolulu to teach Botany at the University of Hawaii, having 102 students in Freshman Botany divided up into three sections. From overwork and my ambition to forge ahead with my project of publishing a Flora Hawailensis, I developed chronic tachycardia (malfunction of the heart nerce, but not of the muscle), and no longer could drive an auto legally. Aware of the floral richness of Haw. Nat. Park and having met Director Mather at some scientific meeting held in the Maha Hotel in Waikiki, I applied for a position with the park Service. Consequently I was appointed the first Waturalist of Hawaii National Park. This included bothe the Haleakala abd Kilausa Sections. Thanks to four pack horses, a mule and a few assistants, I had studi Maleakala vegetation from the Holus Cave area and neighboring regions for about three weeks in 1927

While Maturalist under Supt. Allen in 1929 I lived in a cottage, five students, most of them hatural born artists I had trained in Honolulu to make scientific drawings of plants for me. I had most of them execute scientic drawings of the plants of the gilauea Section at my expense. I had one student always available, because of my legal in ability to drive, chauffour me back & forth to work, even running the motion picture machine during my one hour lectures, sometimes as many as three per day, to boat loads

of steamer tourists. The present taxture Observatory was the lecture hall.

With the coming of the school season it was impossible for me to continue my lectur ing and other Park duties. So I resigned, taking up lodging in the Volcano House for about one and a half years. Puring that time, I work on my illustrated book "Plants Hawaii Mational Park". I returned to my home in Monolulu with the manuscript in board cvers, the Honolulu Star-Bulletin being the printer. The later famous Mr. Farrington was the salesman with whom I dealt.

Besides my collecting within Haleakala, I had spent 1929-30 combing especially the srea within three miles hiking distance of the Volcano house. I concentrated on Flow ering Plants and Ferns, but did not ignore some of the other groups As neither facili ties nor funds for an herbarium were available at the fark, none of my collection of unicates and duplicates occur in the present herbarium. Resides acquainting Naturalist Mitchell of this fact, I wish to have others realize the importance of preserved plants, especially with the increase of Time.

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Naturalist's South Pacific Expedition: Fiji. Boards, very rare. 1949. Collect-

ing Degeneriaceae & popular experiences.). \$45

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O., + J.

## NATURALIST'S SOUTH PACIFIC EXPEDITION: FIJI

Ву

### OTTO DEGENER, B.S., M.S.

Botanist, University of Hawaii, 1925-27 Naturalist, Hawaii National Park, 1929 Collaborator in Hawaiian Botany, New York Botanical Garden, 1935 Botanist, Cheng Ho Expedition, 1940

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PARADISE OF THE PACIFIC, LTD HONOLULU, HAWAII 1949

#### CHAPTER XI

### A Bachelor Acquires A Family

Ordonez entered in his diary for February 24, 1941: "Go hiking—Mr. Degener, Timothe and I. Reach the top of a neighboring mountain. Timothe is receiving inspiration in the botanical line. I guess he hasn't much to think or worry about. That's why he is absorbed in what he does manually. Mr. Degener is indeed happy, contented, and patient in his botanical accomplishments! Romance is evidently permeating my mind. Occasional day-dreaming is common! A great hinderance to success!"

February 24, that memorable day, we followed faithful Timothe into what he called the Nauwanga forest. That memorable day we found a tree with rather ugly flowers and, being as usual greedy for specimens to scatter far and wide among worthy institutions to stimulate study. I collected ample material. There were numerous flowers but considerable search disclosed only a single fruit. This collection, to which I gave the number 14,537, was pressed and dried like all other collections and in due time mailed from Nandarivatu to Dr. Smith Later, when I returned to my beach home in Hawaii Nei, Smith wrote me some astoundingly gratifying letters. I was flabbergasted! February 24 is truly far more important to me than the anniversary of my birthday or the date of my death. February 24 is my very private, personal, memorable "Me.

morial Day.'

The story was told officially by I. W. Bailey and A. C. Smith in the Journal of the Arnold Arboretum 23:356-365, Pl. 1-5, 1942, I quote in part: "In 1934 the junior author [Smith] collected specimens of a fruiting tree on the Fijian island of Vanua Levu, but efforts to place the plant in a family failed. Neither fruit nor foliage suggested any plant previously known from the Pacific. Although wood from the trunk was available. no definite suggestion of a family could be made by those who examined the specimen. Recently, a re-examination of the wood and a study of the internal structure of the twigs and leaves indicated that the plant is related to the Magnoliaceae, and it has subsequently been ascertained that the plant is conspecific with a tree collected in flowering condition in the interior of Viti Levu by Mr. Otto Degener in 1941. This Fijian plant, which is now represented by ample foliage, flowers, fruits, and wood, is definitely a member of the ranalian complex. It exhibits close similarities to the Magnoliaceae, particularly in the internal structure of its vegetative organs, in its pollen, and in the vascularization of its stamens. However, we cannot place it in the Magnoliaceae, for reasons to be discussed on succeeding pages . . . . These three families, Magnoliaceae, Himantandraceae, and the proposed Degeneriaceae, form a group with salient morphological similarities . . . . The remarkable stamens and carpel of Degeneria deserve special consideration, since they are likely to prove of some significance in future discussions of the floral morphology of the angiosperms."



The tree Degeneria vitiensis, the only know member of the primitive Degeneria Family. (After Bailey & Smith)

To have one's name associated with an entirely new plant family is an honor almost unheard of. Nevertheless, I am not the family's original discoverer! Two other workers found trees belonging to the Degenerincene before I did. Dr. Smith, as mentioned in the quotation, discovered one on May 7, 1934, on Vanua Levu, in the "Lower Wainunu River valley, alt.0-200 m." As he was the one who studied and published descriptions of the new species, genus and family with Dr. Bailey, he could not well name them for himself. This would violate good taste and a long-established custom. The second discoverer of Degeneria is my friend Mr. B. E. V. Parham, government botanist in Suva. After my find came to Dr. Smith's attention, I visited Mr. Parham at his Nanduruloulou home where he showed me his herbarium. Much of it had not yet been studied because of the pressure and confusion of war work. I then suggested that he ship his collection to Smith for determination. When Smith finally got the Parham plants on loan for study, he found a Degeneria among the lot. This had been collected at Nanduna, Viti Levu. in 1939, four years after Smith's find and two years before mine.

According to Dr. S. F. Blake at least one other family bears the name of a living botanist. This is Chingithannaceae Hand. Mazz., in Sinensia 2:126,1932, the type specimen for the family having been collected in Kwangsi by R. C. Ching, Botanist of the Metropolitan Museum of Natural History (Nauking) and Research Fellow of the China Foundation for Promotion of Education and Culture. This family is ignored, in error, in the Index Kewensis. But this work does record the fact that Handel-Mazzetti, who originally proposed the new family, soon regretted his action. By merging his genus Chingithannas with Microtropis, he equated his Chingithannaceae out of existence into the Celastraceae. The family Degenerizaceae, however, is still in good standing.

June, 1924, Herhert L. Mason collected a peculiar brown seaweed off Clarion, the most westerly of the Revillagigedo Islands, southwest of Lower California. It was named Masonophycus paradoxa after its discoverer and its unusual characters. It is so different from any other seaweed known that it constitutes a family all its own, namely the Masonophyceae. Thus, Degeneriaceae and Masonophyceae, each based on a single kind of plant, are the only valid plant families commemorating living botanists at this time.

Our collecting was so successful in the Nandala region that I felt we needed still another assistant. I spoke to Timothe. Yes. He thought a distant relative of his would be glad of the opportunity to earn some money, particularly as his father was old, almost blind, and not able to work as hard as formerly. A few days later a diffident, clumsy, raw-honed youth with large, fleshy lips and a mouth so big that it almost hid his face when he gulfawed, reported for work. He was physically and mentally not Timothe's equal, and both seemed to acknowledge the truth of this fact. Danieli was a simple dullard who willingly climbed trees for orchids and other epiphytes on Timothe's slightest behest. One late afternoon, while we were putting away our plants between driers. I noticed a little rumpus—faithful, observant Timothe in quiet but intense anger suddenly frisked Danieli and drew forth my scissors secreted on his