This reports the renaming of the Citrus Variety Collection to the Givaudan Citrus Variety Collection at the University of California, Riverside, per UCR Policy 450-25: Naming of University Properties, Programs, & Facilities.
Dear Cindy,

In response to the November 26, 2018 UCR Policy 450-25 related naming request, I write to convey that Executive Council had no objection, during its December 10, 2018 meeting, to the proposal to rename the *Citrus Variety Collection* the *Givaudan Citrus Variety Collection at the University of California, Riverside.*
Initial Request for Approval to Name/Establish a Property, Program, or Facility

This form is to help review gifts for compliance with academic plans and priorities, and to facilitate campus review procedures for naming.

Upon completion of this request form, the Dean/Unit Head forwards it for signature to the Associate Vice Chancellor, Development and Vice Chancellor, University Advancement. The Associate Vice Chancellor, Development or designee will submit the request, with draft gift agreement and supporting documentation to the Executive Vice Chancellor and Provost and Vice Chancellor for Academic Planning & Budget for campus review. If approved for recommendation, the EVC&P’s Office follows the appropriate procedure for Naming of Properties, Programs and Facilities.

<table>
<thead>
<tr>
<th>Background Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A.</strong> Submitted by: Kathryn Uhrich</td>
</tr>
<tr>
<td><strong>Title, College/Unit:</strong> Dean, College of Natural and Agricultural Sciences (CNAS)</td>
</tr>
<tr>
<td><strong>B.</strong> Type of Gift and Comments: This 10-year naming is proposed to be in recognition of a pledge made in 2018 for $3.5M and $1,000,000 that was donated in 2011 for an endowed presidential chair. The naming will be in effect from January 1, 2019 to December 31, 2028.</td>
</tr>
<tr>
<td><strong>Property:</strong> Citrus Variety Collection’s trees and germplasms: Agricultural Operations Block 11C and sections of Block 11D will be protected by Citrus Under Protective Screening (CUPS) netting. The current collection’s 25 acres will be retained as well (Blocks 12A and B, 18A and B, and sections of 12D and 18C).</td>
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<tr>
<td><strong>Program:</strong> Citrus Variety Collection in the Department of Botany and Plant Sciences</td>
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<tr>
<td><strong>Facility/Building:</strong> Citrus Under Protective Screening netting to be built over approximately 2.6 acres</td>
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<tr>
<td><strong>C.</strong> Proposed Name: (if any, involving gift) Givaudan Citrus Variety Collection at the University of California, Riverside</td>
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<tr>
<td><strong>D.</strong> Honoring Name: N/A</td>
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<td><strong>E.</strong> Proposed Use(s): Protection and maintenance of the Citrus Variety Collection’s over 1000 unique cultivars and species.</td>
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# II. Academic Information

| **A.** Academic Justification: |
| Explain how the proposed gift or endowment fits into the College/Unit’s Academic Plan | The recent discovery of three Huanglongbing (HLB)-infected trees approximately 2.25 miles from UC Riverside and the pervasive spread of Asian Citrus Psyllids (ACP), which transfers bacteria that causes HLB, has crystalized the need to protect the diversity of all cultivars and species of citrus and related genera in the Citrus Variety Collection. The approximate 25-acre field collection has been carefully cultivated over the last 108 years and is one of the most diverse collections of citrus and related genera in the world.

Two additional small, non-fruit-bearing trees of each cultivar and species are currently housed in aging screened greenhouses at UCR Agricultural Operations or at the USDA National Clonal Germplasm Repository for Citrus since 2008. In an effort to breed new cultivars and conduct research that utilize plant diversity, the Collection must be grown in the ground but due to the threat of HLB, new cultivars must be grown separately and protected immediately. The $3,500,000 donation from Givaudan will protect the collection with a CUPS (Citrus Under Protective Screen) netting ($1,500,000) and create an endowment ($2,000,000) that will help the college maintain the collection’s heath in perpetuity.

A 10-year naming (from January 1, 2019 to December 31, 2028) has been approved by the College of Natural and Agricultural Sciences based on the corporation’s relationship with the university over the last 11 years and their continued support of the Citrus Variety Collection. |

| Resources: Describe the resources that will be necessary to support the proposed Property/Program/Facility (e. g., other funding). Please refer to the College/Unit Academic Plan as appropriate | The College of Natural and Agricultural Sciences has spent $150,000 of donations from several Citrus Variety Collection donors to test the land and plan for the protective structure. CNAS will be responsible for all physical signage and installation costs related to the name change. Click or tap here to enter text. |
### Contribution Information

<table>
<thead>
<tr>
<th>A.</th>
<th>Total amount of private funds expected to be committed (or being discussed)</th>
<th>A $3,500,000 pledge agreement has been drafted to be signed once Naming Committee has approved the naming (see attached)</th>
</tr>
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<tr>
<th>B.</th>
<th>Form of private contribution(s)</th>
<th>Click or tap here to enter text.</th>
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<tbody>
<tr>
<td>☐</td>
<td>Outright Gift</td>
<td>Cumulative giving to date: $1,100,000</td>
</tr>
<tr>
<td>☑</td>
<td>Written Pledge</td>
<td></td>
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<tr>
<th>C.</th>
<th>Initial contribution/pledge payment expected:</th>
<th>$200,000</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Fulfillment Date:</td>
<td>December 2018</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>D.</th>
<th>Source(s) of private contribution:</th>
<th>Funds from Givaudan Flavours Corporation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Donor(s)</td>
<td>Amount(s)</td>
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</table>

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<tr>
<th>E.</th>
<th>Will this gift/pledge be anonymous (donor requests no publicity)?</th>
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<tbody>
<tr>
<td></td>
<td>☐ Yes</td>
</tr>
<tr>
<td></td>
<td>☑ No</td>
</tr>
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</table>

### College/UCR/UC Commitment:

<table>
<thead>
<tr>
<th>A.</th>
<th>Will any additional college, campus-wide or system-wide resources be sought/required (e.g., space, special facilities, equipment, etc.)? How will they be funded?</th>
<th>CNAS to pay for signage; cost details to be included in final draft.</th>
</tr>
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<tr>
<td></td>
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<td></td>
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<tr>
<td>B.</td>
<td>IF Property, Program or Facility, has consultation with appropriate campus/UC entities occurred? (Attach proper supporting documents)</td>
<td>Yes, CNAS Dean Kathryn Uhrich received approval from the UCR Citrus Variety Collection’s current curator.</td>
</tr>
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</table>
## College/Unit/Faculty Consultation

This naming has been reviewed by and received approval from members of the College of Natural and Agricultural Sciences Executive Committee and faculty.

**Submitted by:** Kathryn Uhrich, Dean, College of Natural and Agricultural Sciences

<table>
<thead>
<tr>
<th>Kathryn Uhrich, Dean, College of Natural and Agricultural Sciences</th>
<th>11.19.18</th>
</tr>
</thead>
</table>

<table>
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<tr>
<th>Hieu Nguyen, Associate Vice Chancellor, Development</th>
<th>Click or tap here to enter text. 11.19.2018</th>
</tr>
</thead>
</table>

<table>
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<tr>
<th>Peter Hayashida, Vice Chancellor, University Advancement</th>
<th>Date</th>
</tr>
</thead>
</table>

Send competed request form with:
- draft gift document and
- any supporting information

To Executive Director of Foundation & Donor Relations, MC063
UC Riverside Foundation

GIFT AGREEMENT BETWEEN
Givaudan Flavours Corporation
and the UC Riverside Foundation

For support of the Citrus Under Protective Screening Project
and to establish the
Givaudan Citrus Variety Collection Endowed Fund

I. INTRODUCTION

Givaudan Flavours Corporation is the global leader in the fragrance and flavor industry, offering its products to global, regional and local food, beverage, consumer goods and fragrance companies. Headquartered in Switzerland, the company’s relationship with the UCR Citrus Variety Collection is primarily through their Flavour Division.

Givaudan Flavours Corporation ("Donor") wishes to irrevocably pledge $3,500,000 ("Gift Funds") to the UC Riverside Foundation, a California nonprofit public benefit corporation ("Foundation"), with the conditions and purposes contained in this document, cash or marketable securities having a fair market value on the dates gifts were made. The first $1,500,000 of the pledge is designated as current, restricted-use in support of the Citrus Under Protective Screening Project at UC Riverside.

Two million dollars ($2,000,000) of the pledge shall establish a new Givaudan Citrus Variety Collection Endowed Fund ("Endowed Fund").

II. ESTABLISHMENT OF FUNDS

A. The Givaudan Citrus Variety Collection Endowed Fund, a true endowment to be held by the UC Riverside Foundation, shall be established when this memo has been reviewed, signed, and dated by the Donor and appropriate university official(s), and has been fully funded at $2,000,000.

B. The Donor agrees to fulfill the pledge through seven pledge payments. The first pledge payment of $200,000 shall be made by December 31, 2018 and the final payment shall be made on or before June 30, 2024, according to the following payment schedule:

<table>
<thead>
<tr>
<th>Date</th>
<th>Amount</th>
</tr>
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<tbody>
<tr>
<td>December 31, 2018</td>
<td>$200,000</td>
</tr>
<tr>
<td>June 30, 2019</td>
<td>$500,000</td>
</tr>
<tr>
<td>June 30, 2020</td>
<td>$500,000</td>
</tr>
<tr>
<td>June 30, 2021</td>
<td>$500,000</td>
</tr>
<tr>
<td>June 30, 2022</td>
<td>$600,000</td>
</tr>
</tbody>
</table>
June 30, 2023: $600,000
June 30, 2024: $600,000

Both parties understand that the Foundation will send reminder notices in accordance with the payment schedule.

In recognition of the Foundation’s and UCR’s intent to rely upon this commitment, we agree that this commitment is a binding legal obligation. The Donor is advised to seek their own tax advice.

Additions to the Endowed Fund can be made at any time.

III. PURPOSE AND USE OF GIFT FUNDS

A. General Purpose

1. The first $1,500,000 received in multiple pledge payments will be restricted, current-use and will be designated to the CNAS Dean’s Various Donors Fund (#200394), intended to recompense the College of Natural Sciences for the purchase of and labor required to build a Citrus Under Protective Screen, constructed to protect the Citrus Variety Collection on UC Riverside’s Agricultural Operations campus site.

2. The remainder of the pledge payments received totaling $2,000,000 will establish a new Givaudan Citrus Variety Collection Endowed Fund, which will provide support for the Citrus Variety Collection in the Department of Botany and Plant Sciences or other appropriate department under the direction of the collection’s curator/director/manager, in consultation with the dean of the College and Natural and Agricultural Sciences and in accordance with established University policy, for the long-term sustainability, growth, and support of the Citrus Variety Collection.

IV. ADMINISTRATION OF ENDEWED FUND

A. Disbursement of Funds

When endowed, the Fund’s expendable distribution will be determined periodically under the Endowment Expenditure Policy established by the UC Riverside Foundation. The principal of the Fund may be combined with other funds for investment purposes. Total return earned by the Fund in excess of the amount approved for distribution shall be retained in the Fund principal to protect the Fund from the effects of inflation and to allow for growth. Any unexpended distribution from the previous year may be combined with that of the current year for spending purposes or added to the Fund principal.

B. Establishment of Endowed Fund
The establishment of the Endowed Fund will comply with current policies of the UC Regents, the University, and the UC Riverside Foundation. Although the Fund is intended to exist in perpetuity, unforeseen circumstances may alter or remove the subject area from the campus academic plan. In such an event, the Chancellor is authorized to re-designate the purpose of this Fund, as s/he determines to be consistent with Donors' interests and intentions.

C. Fiduciary Responsibility
   Responsibility for governance and investment of all Foundation funds is vested in the UC Riverside Foundation Board of Trustees, a fully qualified charity.

D. Administrative and Gift Fees
   As is customary with universities and other non-profit organizations across the country, a one-time gift fee is applied to each pledge payment (gift) in order to provide essential support to UC Riverside’s Advancement program. The fee is currently 5%.

In addition, after the one-time fee has been satisfied, administrative fees will be charged in accordance with UCR policy.

V. STEWARDSHIP

The charitable donation made by Givaudan Flavours Corporation is testament to the value the organization places on the long-term sustainability of the Citrus Variety Collection.

A. The Donor will receive periodic stewardship reports from the University on the current-use gift and Endowed Fund.

B. Between the dates of January 1, 2019 and December 31, 2028, the Citrus Variety Collection will be named the “Givaudan Citrus Variety Collection at the University of California, Riverside” in recognition of the Donor’s gift.

   The Donor agrees that this name may be used in University communications.

C. The University will be responsible for creating, hanging, and maintaining a sign agreed on by both parties that bears the collection’s new name near the Canyon Crest entrance of Agricultural Operations.

D. In accordance with University policy, a plaque will be placed near the protective screen denoting details of the Donor’s gift.
ACCEPTANCES:

Fernando Miquelarena
President, North Americas Flavors
Givaudan Flavours Corporation

Date

Hieu Nguyen
Associate Vice Chancellor, Development
University of California, Riverside

Date

Kathryn Uhrich
Dean
College of Natural and Agricultural Sciences

Date
To: U C Riverside Naming Committee

From: Kathryn Uhrich, Dean, College of Natural and Agricultural Sciences

Date: November 16, 2018

Subject: Citrus Variety Collection

At the November 6, 2018 CNAS Executive Committee (EC) meeting (minutes attached), I informed the committee of a time-sensitive matter - renaming the CVC and setting up an endowment to support the CVC. No objections or concerns were raised on the establishment of the endowment or the CUPS to protect the world-renowned research collection; I confirmed that the current CVC Director, Tracy Kahn, was fully aware and supportive of the renaming and the endowment.

Specifically, we request the name to be the “Givaudan Citrus Variety Collection at the University of California, Riverside” for the duration of 10 years (2019-2028) in recognition of a generous gift from Givaudan Flavours Corporation. This support furthers the college’s commitment to remaining at the forefront of agricultural sciences research and will provide funding for improvements, innovation, and growth. This new gift will provide much-needed protective screening for the Citrus Variety Collection and an additional endowment that will provide support for the collection in perpetuity.

Based upon the positive feedback from the CNAS EC, I endorse the establishment of this new endowment and renaming to support a valuable research collection.
DATE: NOVEMBER 15, 2018

TO: EXECUTIVE COMMITTEE MEMBERS
COLLEGE OF NATURAL AND AGRICULTURAL SCIENCES

FROM: SANDRA KIRTLAND TURNER, ACTING EXECUTIVE COMMITTEE CHAIR
COLLEGE OF NATURAL AND AGRICULTURAL SCIENCES

RE: EXECUTIVE COMMITTEE MEETING FOR
TUESDAY, NOVEMBER 20, 2018 – 2:10-3:30 PM – BACHELOR HALL 2158

Previous Meeting November 6, 2018

1. Announcements by the Dean/Divisional Deans
2. Approval of minutes from November 6, 2018 meeting P.2/Attachment #1 [Vote]
3. Campus Review: Proposal to Award Credit for Math 9C to Students with AP Calculus BC Exam Score of 4 or 5 P5./Attachment #2 [Vote]
4. Campus Review: Consultation: Extension of Exception to APM 275-16-f(3) Restrictions: 1/6 Limitation on Appointment to Professor of Clinical X Series P9./Attachment #3 [Comment]
6. Campus Review: Proposed Degree Program: 2nd Round Masters of Science in Business Analytics (MSiBA) P.47/Attachment #5 [Comment]
7. Course Proposals. Available at Login to the Course Request System

NEW:
BIOL 166, ENTM 10, ENTM 60W, ENTM 130, HNPG 16, HNPG 17, HNPG 18, HNPG 199H

CHANGE:
BIOL 5C, CBNS 130L, CHEM 1HA, MCBL 126, MCBL 127, STAT 183

RESTORE:
BCH 186, ENTM 111

8. Old Business
9. New Business
MINUTES OF THE CNAS EXECUTIVE COMMITTEE

November 6, 2018 – BATCHelor HALL 2158 – 3rd Meeting

Present: Sandra Kirtland Turner (Acting Chair), Timothy Higham (Evolution, Ecology and Organismal Biology), Shou-Wei Ding (Microbiology and Plant Pathology), Zhiwei Zhang (proxy, Statistics), Zhenyu Arthur Jia (Botany & Plant Sciences), Richard Hooley (Chemistry), Feng Xu (Mathematics), Laosheng Wu (proxy, Environmental Sciences), Alec Gerry (Entomology), Stephen Spindler (Biochemistry), Frederick Hamann (Physics & Astronomy), Paul De Ley (Nematology), Connie Nugent (Divisional Dean), Timothy Paine (Divisional Dean), Frances Sladek (Divisional Dean), Kathryn Uhrich (Dean, College of Natural & Agricultural Sciences).

Absent: Samantha Ying (Environmental Sciences), Jeffery Bachant (Molecular, Cell & Systems Biology), Jose Wudka (Divisional Dean), 2 student representatives.

Previous Meeting: October 16, 2018

Meeting:

Start: 2:11 pm

1. Announcements by the Dean/Divisional Deans

Dean Uhrich updated the Committee that the RUSD STEM Academy location is set with architectural development beginning. Dean Uhrich notes that the location is not in Ag Ops. She will monitor LRDP attempts to develop land north of Martin Luther King. Members of the Executive Committee have heard that local residents have grave concerns about the impact of the planned RUSD STEM Academy location on the community, especially regarding traffic. Nevertheless, it is anticipated that construction will begin in 2020. Acting Chair Kirtland Turner reports from the Executive Council that another committee is due to be formed as a liaison to close gaps in communication to the faculty, namely to clarify the amount/type of faculty time that’s been committed in the STEM Academy proposal as “mentoring.” She will follow up further on the status of the committee to be formed and update the Executive Committee later.

Dean Uhrich introduced endowment opportunities needing Executive Committee support. 1) Endowed Term Chair for CNAS: This college-wide term endowed chair at UC Riverside’s College of Natural and Agricultural Sciences will allow the college to continue supporting faculty who are committed to mentoring students and innovative scientific pursuits. 2) Renaming opportunity
for UCR’s citrus variety collection to the “Givaudan Citrus Variety Collection at the University of California, Riverside” for 10 years in recognition of a generous gift from Givaudan Flavours Corporation. Givaudan asks access to the collection several days out of the year in addition to attaching their name to the collection in connection with UCR. This support furthers the college’s commitment to remaining at the forefront of agricultural sciences research and will provide protective screening for the Citrus Variety Collection and an additional endowment that will provide support for the collection in perpetuity.

Divisional Dean Nugent updated the Committee that the Winslow Scholarship is ready for candidate selection.

2. Approval of minutes from October 16, 2018 meeting

   Unanimously approved.

3. Review of CNAS Executive Committee Bylaw N4.1.1 on membership.

   Acting Chair Kirtland Turner clarified the Executive Committee charge to review the membership as outlined in bylaw 4.1.1 and the Committee concluded that the current representation of academic departments is accurate. However, the Committee also determined that Cooperative Extension Specialist is the more accurate title of the specialist named in parenthesis in bylaw N1.2, and that therefore this title should be included in the bylaws. The Committee will address the edit in their next meeting of 11/20/18.


   Acting Chair Kirtland Turner called for any comments, which she will compile if faculty weigh in. She also clarified that the policy discussed in BFB-RMP-7 is separate from the identifiable student information outlined in teaching policy.

5. Course Proposals.

   HNPG 16 AND HNPG 18: The Committee reviewed these two proposals and asked for the Honors Program to clarify the repeat statements in each proposal, namely to spell out which courses can be repeated or whether they can be interchangeably repeated. Additionally, the Committee notes that at this time there is no corresponding proposal for HNPG 17 to review in CRS although it’s introduced in the HNPG 16 and 18 proposals. The course proposals are on hold in the approver’s queue.

   HNPG 199H: The Committee asks for clarification on whether HNPG 199H has an impact on total units of research allowable for CNAS majors. The course proposal is on hold in the
approver’s queue.

PHYS 17: Returned to the preparer for further justification of the total units awarded for the course.

PHYS 117: Returned to the preparer for further justification of the total units awarded for the course.

STAT 156A and STAT 156B: Approved as a package, unanimously.

CHEM 01HA: To be returned to preparer to eliminate redundant language in the prerequisite list.

STAT 170A: Unanimously approved as submitted

HNPG 150: Unanimously approved.

CBNS 130L: The Committee tables vote until it’s verified by the CNAS analyst that the instructor/home department in CHASS has approved the cross-list PSYC 123L as proposed.

MCBI 122, 125 and 127 were tabled until next meeting.

ENTM 111. Tabled until next meeting.

6. Old Business
   None

7. New Business
   None

Meeting Adjourned 3:36 pm

Minutes prepared by Michelle Butler

University of California – (Letterhead for Interdepartmental Use)
Givaudan is the global leader in the creation of fragrances and flavors. Over a decade ago, they began a collaboration with UC Riverside’s Citrus Variety Collection and have been supporting scientific research while gaining inspiration from the collection’s flavors. In honor of the tenth anniversary of the collaboration, they invested one million dollars to endow a chair. Ensuring that the Citrus Variety Collection’s curator/director would receive support in perpetuity to protect, enhance, and add new cultivars and species to the invaluable citrus germplasm collection. Dawn Streich, the company’s Global Product Manager and a member of the College of Natural and Agricultural Sciences Dean’s Development Advisory Board, and Tracy Kahn, collection curator, continuing lecturer, and Givaudan Citrus Variety Collection Endowed Chair, have been working together since inception of the Givaudan-UC Riverside partnership.

In addition to Givaudan’s past gift, the organization’s research collaboration has impacted both the Citrus Variety Collection and the campus as a whole. Flavorists, scientists, and those involved with product development at Givaudan have engaged with UC Riverside faculty to provide presentations to undergraduate students in Chemistry 125 and the Dynamic Genome in Biology 20. The company’s leadership have also provided presentations to members of the citrus industry, television, radio, and news stories written about the collection in venues such as Citrus Research Board, 60 Minutes, the New Yorker Magazine, BBC, and the Los Angeles Times, highlighting the collaboration between the private company and the public university.

Recognizing the need to protect UC Riverside’s collection from citrus greening disease (Huanglongbing) that decimated Florida’s citrus industry, Givaudan leadership committed to supporting a Citrus Under Protective Screen (CUPS) intervention ($1,500,000) that is the most beneficial and effective way to protect the collection’s 1052 unique cultivars. With Streich’s advocacy, the company also decided to create an endowment ($2,000,000) that will maintain CUPS and provide necessary support for ongoing projects.

Renaming the collection to the “Givaudan Citrus Variety Collection at University of California, Riverside” for 10 years is in recognition of the company’s $4,600,000 cumulative giving in support of the collection.

**History and Scope of the UCR Citrus Variety Collection**

California and most citrus-producing regions of the world have benefited from the existence of the UC Riverside Citrus Variety Collection. From the birthplace of citrus in China and India to the newest reaches of citrus ventures in Chad and Turkmenistan, the Citrus Variety Collection has provided information, new citrus hybrids, plant material and a spirit of local as well as global cooperation.

The Citrus Variety Collection was initiated in 1910 by staff of the Citrus Experiment Station and USDA researchers soon after the establishment of the Citrus Experiment Station at the original site in Riverside on the slopes of Mount Rubidoux. In June of 1917, Webber, the first director of the Citrus Experiment Station, guided the installation of the Citrus Variety Collection on five acres of land adjacent to the new site of the CES in what is now the UC Riverside campus. The purposes of the Citrus Variety Collection are threefold: 1) to conserve and evaluate trueness-to-type of citrus and citrus relatives; 2) to provide a resource of citrus genetic diversity for
research; and 3) to extend knowledge about citrus diversity. Over the 87 years, the collection has had 11 curators with some overlap in tenure in recent years. From 1912 to 1940, under the direction of H. J. Webber, budwood was freely introduced into the collection from virtually all the citrus growing regions of the world. Since 1910, when the collection began, it has included a total of approximately 4,000 citrus accessions. These field plantings were located adjacent to what is now UC Riverside. Initially most of the holdings were propagated on sour orange rootstock. In 1951, under the direction of W.P. Bitters, the collection was consolidated and repropagated onto sweet orange rootstock due to the failure of certain genotypes on sour orange rootstock. These new trees, as well as all new accessions on sweet orange rootstock added to the collection, were planted adjacent to the older trees. In the mid-1950s, J. W. Wallace indexed certain trees in the Citrus Variety Collection and found Citrus Tristeza Virus present in six trees. This presence of Citrus Tristeza Virus and a later indexing of 98 trees from the collection by C.N. Roistacher and E.C. Calavan in 1963 precipitated the repropagation of the collection again in 1966 onto CTV-resistant, appropriate rootstocks including Troyer citrange, Carrizo citrange, and C. t'aiwania. During the mid- to late-1960s, seedling yellows, a severe isolate of Citrus Tristeza Virus (CTV) probably began to move within the collection and into some of the field trees surrounding the collection. Annual inspections by W. P. Bitters of all the trees in the collection determined that the number of trees declining each year was increasing at an exponential rate even though they were on CTV-tolerant rootstocks. This dramatic spread of seedling yellows between 1970 and 1980 was found to be due to a change in the transmissibility of CTV. In 1981, with support of the Citrus Research Board, the Citrus Advisory Board, and UC, an intensive effort was begun to index all citrus trees at the Citrus Research Center and remove those found positive for seedling yellows. The collection was again consolidated and repropagated, this time onto Carrizo citrange, C35, or another appropriate rootstock. These new trees were planted in 1983 into their current locations in Fields 12A, 12B, 18A, and 18B. Additional land was allocated in these fields for expansion. Throughout the history of the Citrus Variety Collection, new accessions have been added to the collection and others have been removed because they were very similar to other types present. A few were lost due to tree death. At the time of W. P. Bitters retirement in 1982, the collection contained approximately 1200 accessions. Since then some 400 accessions have been lost to attrition and selective removal of apparent duplication. Currently, the Citrus Variety Collection occupies 22.3 acres on the UCR campus and 2 acres at the South Coast Research and Extension Center in Irvine, California, and 2 acres at the UC Riverside Coachella Valley Agricultural Research Station in Thermal, California. The Citrus Variety Collection contains two trees of approximately 1000 types within the genus Citrus and within 27 of the 33 related genera in the subfamily Aurantiioideae of the Rutaceae. Approximately 670 of holdings are within the subgenus Citrus and encompass virtually all of the commercially important and historic citrus varieties of the world.

**Citrus Evaluation Blocks**

In addition to the Citrus Variety Collection, there are three collections of commercially important citrus varieties maintained in California. These Citrus Evaluation Blocks which are
also called Demonstration Blocks are each collections of approximately 200 trees which include varieties that are also present in the Citrus Variety Collection. One is located at the UC Lindcove Research and Extension Center (Lindcove, CA), the second at the UC South Coast Research and Extension Center (Irvine CA), and the third at the UC Riverside Coachella Valley Agricultural Research Station (Thermal CA). These Evaluation Blocks serve as demonstration material for periodic field days that allow industry representatives to evaluate new varieties. In addition, along with the Citrus Variety Collection, they serve as sources of fruit for fruit displays and for research conducted by T.L. Kahn and T. Siebert to evaluate fruit quality traits for trueness-to-type and commercial potential evaluation.