

Joseph Wood Krutch Garden Florilegium Artwork Standards and Specifications

Who We Are:

The University of Arizona Campus Arboretum is a living laboratory integrated into the main campus, dedicated to promoting stewardship and conservation of the hundreds of plant species collected and installed on the campus grounds throughout the University's almost 125-year history. Formally established in 2002, the goal of the Arboretum is to preserve, curate and enhance this extensive collection as a resource for research and education programs that promote the historic, scientific, environmental, economic, aesthetic and educational value of these plants particularly those adapted to dry climates. The Sonoran Desert Florilegium program promotes conservation and appreciation of Sonoran Desert plants through botanical art. It is the premier effort of its kind designed to create, collect, exhibit and store botanical images for research, education, documentation, and aesthetic appreciation. Through collaboration with artists, educators, and scientists, botanical images are created and displayed so that the general public may gain knowledge of the scientific images and appreciation of the aesthetic value of plants native to the Sonoran Desert and thus serve as a catalyst for their conservation and protection. The Sonoran Desert Florilegium Program is sponsored by the Tucson Cactus and Succulent Society (TCSS), with 501 ©(3) non-profit status, and is directed by a volunteer steering committee.

Background:

As a Land Grant school, the University of Arizona recognizes our responsibility and opportunity to use the campus grounds as a living laboratory that serves as a model of best practices for desert landscapes. Since Professor James Toumey initiated a cactus display garden on the West side of University Hall (Old Main) in 1891, UA faculty have used the campus landscape to support education and research. Toumey's display garden, later relocated east of Old Main and expanded by President Homer Shantz, and now largely replaced by turf grass on the mall, is the last remnant of the University's oldest and most significant educational garden. It not only represents our commitment to the land grant mission, but also encapsulates the historical and botanical heritage of our campus landscape, serving as a progressive model of sustainable landscaping and promoting study of Sonoran native plant ecology and ethnobotany. The garden is named after and perpetuates the legacy of noted naturalist Joseph Wood Krutch, by encouraging appreciation for the science and beauty of the desert, modeling practices that preserve the natural environment in the midst of urbanization.

A florilegium (pl. florilegia) is a book of flower drawings. The word florilegium is derived from the Latin word *florilegus*: to gather flowers. Florilegia began in the late 1500's with the development of the 'flower garden'. These magnificent gardens of imported new and exotic plants brought to Europe through maritime exploration were established by royal and wealthy European patrons to celebrate and historically document the plants of each garden. Throughout subsequent years the concept of a florilegia has changed. Today florilegia are not only books documenting plants in a specific garden but are more frequently a collection of botanical works of art documenting plants in a specific garden or in a specific geographical region.

The Project:

The Campus Arboretum has established a Florilegium of the Joseph Wood Krutch Garden by working with the Sonoran Desert Florilegium Program to collect and create botanical art that documents the scientific and aesthetic value of the Krutch Garden native plant collection. The Sonoran Desert Florilegium program initiated the project with the production of several works of botanical art corresponding to the garden's species. With the establishment of this special collection, the Campus Arboretum has accessioned more than 50 plant species in the Krutch Garden with the aim of having all of the garden taxa illustratively documented. The Campus Arboretum will be responsible for raising funds to purchase all artwork. The Sonoran Desert Florilegium Program will recruit artists to participate in the Florilegium's creation, and also assist the Campus Arboretum with fundraising efforts. Original artwork is accessioned into Special Collections where they are archived and permanently stored. These pieces are publically available for loan and are exhibited by Special Collections in the Science Library and other campus locations. Artists retain copyrights to the originals, but UA Special Collections and UA Campus Arboretum will be permitted the option to create digital copies of the illustrations for display on the Campus Arboretum and SDFP websites as a virtual exhibit. Each piece of artwork will conform to detailed specifications to ensure uniformity, quality, scientific and aesthetic value of the collection.

JOSEPH WOOD KRUTCH GARDEN FLORILEGIUM

Artists Instructions

Subject Selection and Presentation:

Artists are asked to review the Joseph Wood Krutch garden species inventory, select a species from the list of taxa available, and confirm that the species illustration is still needed. To confirm if a species illustration is needed contact Margaret Pope at mmapope43@gmail.com. Illustrations are expected to complement the written botanical treatment of each plant species. Artists should consult available written descriptions of the species' botanical characteristics and communicate these structures accordingly through the artwork. In addition to living plants, artists should obtain dried and pressed herbarium specimens as well as photographic documentation of plant features and structures. The artwork format is a traditional botanical plate. It is vital that the artwork adheres to a high artistic standard and be botanically accurate in color and structure. The specimens referenced should be representative of the species.

Plate Specifications:

Only one plant species may be represented on the page. Do not include any additional subject(s) such as other plant species, insect pollinators, or other animals. A complete set of plant structures should be represented on the plate including:

- Plant habit
- Enlarged flower
- Enlarged longitudinal section of flower
- Enlarged plant structures and cross/longitudinal sections necessary to show structural detail of:
 - gynoecium
 - androecium
 - fruit
 - seed
 - leaf/leaves

Other interesting and/or identifying plant structures. (The Campus Arboretum can provide guidance to assist artists in selecting significant plant features that could be included in the artwork to support scientific quality of the artwork.)

The front of the artwork should only include in the following order: © Date, and the artist's signature written in graphite. Prominent signatures and labels as well as complicated backgrounds and designs are discouraged. On the back of the artwork, the following information should be written in graphite:

- Latin name of species
- Common name of species
- © Date and artist's signature

Medium:

Care should be used to choose a color medium that is of the highest quality and lightfast. Graphite may be used to enhance small details, however, the primary medium should be watercolor, gouache, acrylic, or colored pencils.

Paper:

In order to assemble a visually unified collection, artwork must be on white, 16" x 20", archival quality paper which is appropriate to the medium. Orientation can be vertical or horizontal. Artwork will be matted and stored after accessioning, and framed as needed for rotating exhibits.

Additional Documentation:

Artists are asked to include a photocopy of the original artwork along with the submission to enhance the scientific value of the collection (See samples shown in figures accompanying this document*). The photocopy should be labeled using a numbers adjacent to each plant structure. A caption placed at the bottom should identify:

- Latin name of species
- Common name of species
- Next to each number note the plant structure and enlargement (or reduction) size
- © Date and artist's name

JOSEPH WOOD KRUTCH GARDEN FLORILEGIUM



Opuntia basilaris © Chris Bondante

***Figure 1.** Samples of a partially completed plate showing examples of acceptable composition, characteristic structures, detail and labels. For the Krutch Garden Florilegium, the artist's submissions must be photocopied and include a reference to the scale used, which is to be noted next to the appropriate corresponding label within the caption.

Artist's commentary on technique, special features of the artwork, challenges, or other notes related to the artwork are welcome. Please submit additional commentaries on paper separate from the original artwork and additional documentation.

JOSEPH WOOD KRUTCH GARDEN FLORILEGIUM

Submission Instructions and Jury Process:

Submit original artwork, and additional documentation in a clear artist envelope to protect the work. All submissions will be reviewed for quality and accuracy by a panel consisting of a botanist, a botanical illustrator and an artist. Completed artwork will be accepted for consideration before the end of each July and January. Submissions are to be shipped or delivered to:

Mailing Address:

The University of Arizona Campus Arboretum
PO Box 210036
University of Arizona
Tucson, AZ 85721

Delivery Address:

101 Herring Hall
University of Arizona
Tucson, AZ 85721
Ph: (520) 621-7074
Email: infoarboretum@ag.arizona.edu

If the artwork is accepted, the artist will be required to complete a written contract defining the terms of ownership, rights, and accepted usage of the original work.

Ownership and Rights:

After juried selection, artwork will be purchased by The UA Campus Arboretum through money available through membership and sponsorship donations, and accessioned by UA Special Collections. The original work will remain the sole property of the UA Campus Arboretum and may be loaned, exhibited through Special Collections, or electronically duplicated for display on the Campus Arboretum or Sonoran Desert Florilegium Program websites. The artist maintains copy rights to create and sell prints of the original, use images of the artwork in his or her professional biographical and promotional materials as defined in the artists release contract.

The Joseph Wood Krutch Garden Florilegium Artists Release Form:

Artists are asked to sign and include the attached copyright release form with each art submission.

JOSEPH WOOD KRUTCH GARDEN FLORILEGIUM

JOSEPH WOOD KRUTCH GARDEN FLORILEGIUM PROJECT FOR THE UNIVERSITY OF ARIZONA CAMPUS ARBORETUM ARTISTS' COPYRIGHT RELEASE FORM FOR ARTWORK

I warrant and represent that I, _____, am the sole copyright owner of the artwork described below (the "Artwork"). I hereby grant The Arizona Board of Regents, on behalf of the University of Arizona, Campus Arboretum, permission to use, display, distribute and reproduce the Artwork, or any portion or partial representation of the Artwork, for educational and research use consistent with the University's mission, including advertising and promotions in connection therewith. Each use will credit the artist by name.

Artwork Title: _____

Artwork description: _____ Medium _____

If different than title:

Scientific name _____

Common name _____

Artist's name (please print) _____

Address _____

City _____ State _____ Zip _____

Artist's signature _____ Date _____

JOSEPH WOOD KRUTCH GARDEN FLORILEGIUM

Many of these species have already been drawn or are in process. Please contact the UA Campus Arboretum to obtain pre-approval on species selection before beginning the art work.

Family	Genus	Specific Epithet	Var.	Forma	Common Name
Acanthaceae	<i>Dicliptera</i>	<i>resupinata</i>			Arizona Foldwing
Acanthaceae	<i>Justicia</i>	<i>californica</i>			Chuparosa
Acanthaceae	<i>Ruellia</i>	<i>peninsularis</i>			Desert Ruellia
Asparagaceae	<i>Agave</i>	<i>lechuguilla</i>			Shindagger
Asparagaceae	<i>Agave</i>	<i>lophantha</i>			Holly Agave
Asparagaceae	<i>Agave</i>	<i>ocahui</i>			Amolillo
Asparagaceae	<i>Agave</i>	<i>parryi</i>			Parry's Agave
Asparagaceae	<i>Agave</i>	<i>parviflora</i>			Small Flower Agave
Asparagaceae	<i>Agave</i>	<i>pelona</i>			Mezcal pelon
Asparagaceae	<i>Agave</i>	<i>toumeyana</i>			Miniature Century Plant
Asparagaceae	<i>Agave</i>	<i>felgeri</i>			Mescalito
Asparagaceae	<i>Dasyllirion</i>	<i>wheeleri</i>			Desert Spoon
Asparagaceae	<i>Nolina</i>	<i>microcarpa</i>			Bear Grass
Asparagaceae	<i>Yucca</i>	<i>elata</i>			Soap Tree Yucca
Asteraceae	<i>Thymophylla</i>	<i>pentachaeta</i>			Golden Dysodia
Burseraceae	<i>Bursera</i>	<i>microphylla</i>			Little Leaf Bursera
Cactaceae	<i>Carnegiea</i>	<i>gigantea</i>			Saguaro
Cactaceae	<i>Cleistocactus</i>	<i>sp.</i>			Silver Torch cactus
Cactaceae	<i>Coryphantha</i>	<i>vivipara</i>			Spinystar
Cactaceae	<i>Cylindropuntia</i>	<i>arbuscula</i>			Arizona pencil cholla
Cactaceae	<i>Cylindropuntia</i>	<i>leptocaulis</i>			Christmas cactus
Cactaceae	<i>Cylindropuntia</i>	<i>molesta</i>			Agujilla
Cactaceae	<i>Cylindropuntia</i>	<i>ramosissima</i>			Diamond Cholla
Cactaceae	<i>Echinocereus</i>	<i>engelmannii</i>			Englemann's Hedgehog
Cactaceae	<i>Echinocereus</i>	<i>fasciculatus</i>			Pinkflower Hedgehog
Cactaceae	<i>Echinocereus</i>	<i>nicholii</i>			Nichol's Hedgehog
Cactaceae	<i>Echinopsis</i>	<i>multiplex</i>			Easter lily cactus
Cactaceae	<i>Echinopsis</i>	<i>spachiana</i>			Torch cactus
Cactaceae	<i>Ferocactus</i>	<i>covillei</i>			Coville's Barrel
Cactaceae	<i>Ferocactus</i>	<i>wislizeni</i>			Fishhook Barrel
Cactaceae	<i>Ferocactus</i>	<i>wislizenii</i>		flavispina	Yellow Spined Fishhook Barrel
Cactaceae	<i>Grusonia</i>	<i>kunzei</i>			Desert Club Cholla
Cactaceae	<i>Mammalaria</i>	<i>grahamii</i>			Graham's Nipple
Cactaceae	<i>Myrtillocactus</i>	<i>cochal</i>			Cochal
Cactaceae	<i>Neobuxbaumia</i>	<i>polylopha</i>			Cone Cactus

JOSEPH WOOD KRUTCH GARDEN FLORILEGIUM

Cactaceae	<i>Opuntia</i>	<i>basilaris</i>			Beavertail cactus
Cactaceae	<i>Opuntia</i>	<i>engelmannii</i>			Engelmanns Prickly Pear
Cactaceae	<i>Opuntia</i>	<i>ficus-indica</i>			Indian Fig
Cactaceae	<i>Opuntia</i>	<i>gosseliniana</i>	santa-rita		Santa Rita Prickly Pear
Cactaceae	<i>Opuntia</i>	<i>macrocentra</i>			Purple Prickly Pear
Cactaceae	<i>Opuntia</i>	<i>microdasys</i>			Bunny Ears Cactus
Cactaceae	<i>Opuntia</i>	<i>santa-rita</i>			Santa Rita Prickly Pear
Cactaceae	<i>Pachycereus</i>	<i>pringlei</i>			Cardon
Cactaceae	<i>Pachycereus</i>	<i>schottii</i>			Senita
Cactaceae	<i>Peniocereus</i>	<i>greggii</i>			Night Blooming Cereus
Cactaceae	<i>Stenocereus</i>	<i>eruca</i>			Creeping Devil
Cactaceae	<i>Stenocereus</i>	<i>thurberi</i>			Organ Pipe Cactus
Euphorbiaceae	<i>Pedilanthus</i>	<i>macrocarpus</i>			Ladys Slipper
Fabaceae	<i>Acacia</i>	<i>constricta</i>			White Thorn Acacia
Fabaceae	<i>Acacia</i>	<i>greggii</i>			Catclaw Acacia
Fabaceae	<i>Calliandra</i>	<i>eriphylla</i>			Fairy Duster
Fabaceae	<i>Paryella</i>	<i>filifolia</i>			Dune Broom
Fabaceae	<i>Prosopis</i>	<i>velutina</i>			Velvet Mesquite
Fabaceae	<i>Senna</i>	<i>covesii</i>			Desert Senna
Fouquieriaceae	<i>Fouquieria</i>	<i>columnaris</i>			Boojum
Fouquieriaceae	<i>Fouquieria</i>	<i>macdougalii</i>			Tree Ocotillo
Fouquieriaceae	<i>Fouquieria</i>	<i>splendens</i>			Ocotillo
Koeberliniaceae	<i>Koeberlinia</i>	<i>spinosa</i>	tenuispina		Crucifixion Thorn
Malvaceae	<i>Sphaeralcea</i>	<i>ambigua</i>			Globe Mallow
Plantaginaceae	<i>Penstemon</i>	<i>parryi</i>			Parry's Penstemon
Polygonaceae	<i>Antigonon</i>	<i>leptopus</i>			Queen's Wreath
Simmondsiaceae	<i>Simmondsia</i>	<i>chinensis</i>			Jojoba
Solanaceae	<i>Lycium</i>	<i>andersonii or macrodon?</i>			
Solanaceae	<i>Lycium</i>	<i>fremontii</i>			Wolfberry
Xanthorrhoeaceae	<i>Aloe</i>	<i>vera</i>			Aloe Vera
Zygophyllaceae	<i>Larrea</i>	<i>tridentata</i>			Creosote