

# **Binomial Nomenclature**

The Classification of  
Plants

# Six kingdoms

- ❖ Plants
- ❖ Animals
- ❖ Protista
- ❖ Fungi
- ❖ Eubacterium
- ❖ Archae



# The Six kingdoms-a video

[http://www.youtube.com/watch?v=Dxukn2xFKwo&playnext=1&list=PL3C3F82E245DE5064&feature=results\\_main](http://www.youtube.com/watch?v=Dxukn2xFKwo&playnext=1&list=PL3C3F82E245DE5064&feature=results_main)



# Carl von Linne Carl Linneaus



Portrait of Carl Linnaeus at 32 by J. H. Scheffel. Oil Painting, 1739. Reproduction courtesy Uppsala University Art Collections

# Carl Linneaus

<http://www.youtube.com/watch?v=Gb IO-SzLgk>



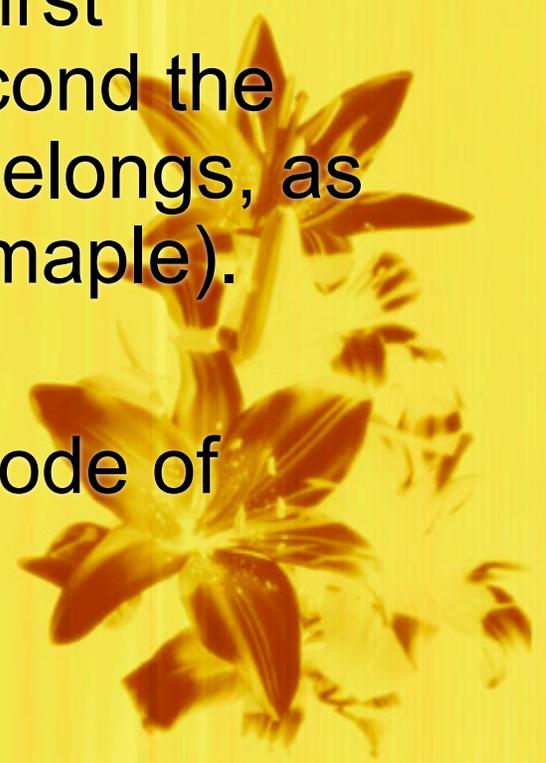
# Your Professor: Michael Pascoe



# Binomial Nomenclature

A system for naming living organisms by means of two Latin names: the first indicating the genus and the second the species to which the organism belongs, as in ***Acer saccharum*** (the sugar maple).

Governed by the International Code of Botanical Nomenclature (ICBN).



# The Classification of Plants

Kingdom

Division

Class

Subclass

Order

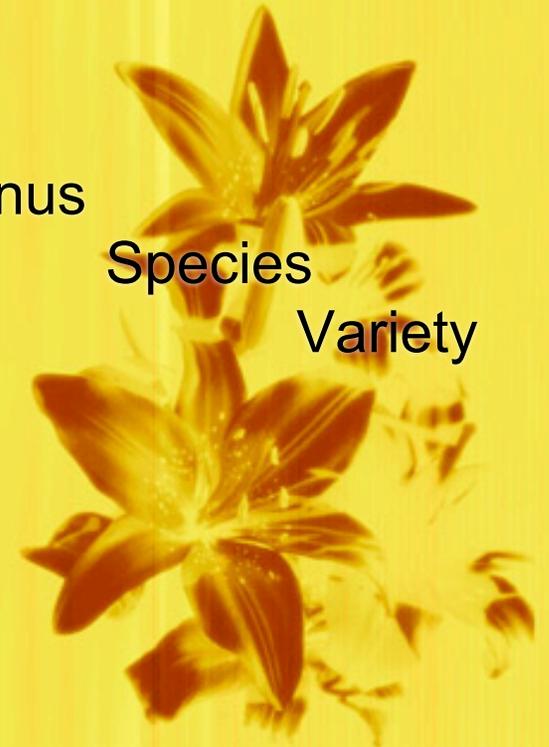
Family

Genus

Species

Variety

(Cultivar)



# The Classification of Plants

Kingdom- Plant

Division-**Tracheophyta**

Class-**Angiosperme**

Subclass-**Dicotyledoneae**

Order-**Cornales**

Family-**Cornacea**

Genus-***Cornus***

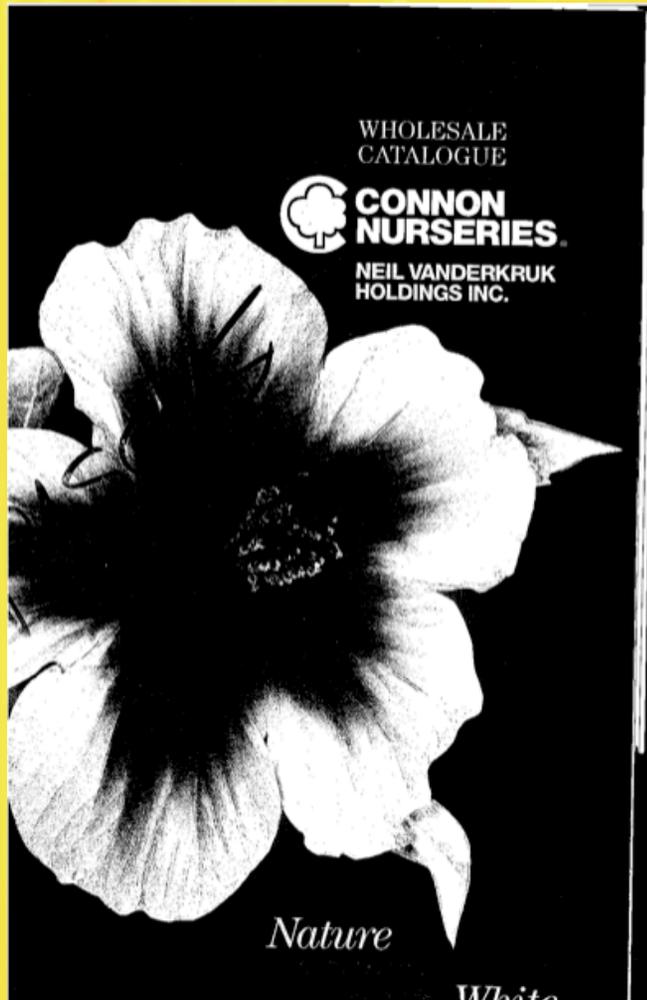
Species- ***C. florida***

Variety- ***C. f. var. rubra***

(Cultivar) 'Comco NO. 1'



# Binomial Nomenclature-In the industry



The Nursery  
Catalogue



# Binomial Nomenclature in the Classroom-Industry

- ❖ Family
  - ❖ Genus
    - ❖ Species
      - ❖ Variety, subspecies
        - ❖ Cultivar



# Binomial Nomenclature in the Classroom-Industry

## ❖ Family

A broad classification that will help us understand distant plant group characteristics.



# Binomial Nomenclature in the Classroom-Industry

## ❖ Genus

A broad classification of plants with slightly similar characteristics.



# Binomial Nomenclature in the Classroom-Industry

## ❖ Species

A group of plants with identical characteristics able to breed and produce similar offspring.



# Binomial Nomenclature in the Classroom-Industry

## ❖ Variety

A group that is distinguished from other groups by a specific characteristic or set of characteristics.



# Binomial Nomenclature in the Classroom-Industry

## ❖ Subspecies

Usually occurs because of isolation within a species.



# Binomial Nomenclature in the Classroom-Industry

## ❖ Cultivar

A plant that has been created or selected intentionally and maintained through cultivation, it usually cannot reproduce if left to its own devices.



# The Rules: Writing Plant Names

## ❖ Family

Capitalize, lower case



# The Rules: Writing Plant Names

❖ Genus

*Cornus*

Capitalize, lower case (if in print media use italics)



# The Rules: Writing Plant Names

❖ Species *florida*

Lower case (if in print media use italics)



# The Rules: Writing Plant Names

❖ Variety: var. *rubra*

Lower case (if in print media use italics)

Variety is written as var.



# The Rules: Writing Plant Names

- ❖ Subspecies: *ssp.*
- ❖ A rare occurrence

Lower case (if in print media use italics)  
Subspecies is written as *ssp.*



# The Rules: Writing Plant Names

❖ Cultivar 'Columnare'

Capitalized and single quotes



# Breaking the Plant Naming Rules

❖ *Viburnum xjuddii*

❖ *Buddleia* x 'Blue Chip' Lo & Behold™

❖ LUCIA® Lavendar Blush *Lobelia erinus*

