

NIMBioS Working Group

Remote sensing of biodiversity:  
Linking leaf optical spectra to plant functional traits and phylogenetics  
April 20-23

**Thursday, April 21**

8:30 Introductions

9:00 Jeannine Cavender-Bares – overview of proposal and goals

9:30 Phil Townsend – Linking spectra to traits and using spectra to differentiate taxa

10:00 Susan Ustin – Leaf optics and functional differences among species – California flora

10:30 Coffee Break

11:00 Michael Schaepman – linking spectra and taxa - comparability of instruments and data

11:30 Dudu (José) Meireles – conceptual examples of analysis options

12:00 Discussion

12:30 – 1:45 Lunch

2:00 Brian O'Meara – comparative methods

2:30 Franziska Schrodte – gap filling techniques for traits

3:00 Discussion (Plenary)

3:30 Coffee

4:00 Discussion (Plenary or Breakout) – develop plans for Fri

5:00 NIMBioS reception

### **Friday, April 22**

9:00 Recap Thursday – plans day

10:00 Discussion of comparability of instruments and measurement timing (Anna Schweiger)

11:00 Discussion of species list and generating a time calibrated phylogeny (Dudu and Brian)

12:00 Recap of where we are

12:30-1:45 Group photo/Lunch

2:00 Discussion of products we are aiming for; Outline for the paper

3:00 Discussion of statistical approaches (Aditya Singh)

### **Saturday, April 23**

9:00 Work plan for day and potential break out groups –

12:30 lunch

3:00 adjourn – leave for airport