Technical Snafus
All recordings of speaker talks cut off at 12.5 minutes
Opening Speaker – CNPS Director Dan Glussencamp – video no recorded

The Soil Sponge – Diana Donlon, Director of Soil Centric
50% of all trees cut since civilization began – globally
Pedogenesis – process of making soil
- “Effective rainfall” rain into soil – not runoff concrete
- Water follows carbon- if you build it- it will come!
- Decomposition in the wetland –
Rotting down biomass by fungi to turn that fuel into soil carbon
An increase in organic matter of 1 acre of land = can hold 27,000 gallons of additional water

Biodiversity and Climate Change: The Missing Lings - Paul da Silva Professor at COM
Insects are the links that join different parts of communities
Must go beyond pollinators
Loss 30% of the birds-need planting diversity in habitat to support wildlife
in landscaping. It must be in proportion Ginga, but not all or a lot
Which native plants host most insects?
200 species of BAPI
20 species of caterpillars – coast love oak on 1 tree. 409 species on Toyon
30% of non-natives by volumn does not harm landscape
Decomposition helps tremendously
“Intermediate Disturbance Hypothesis” - All ecosystems have evolved with a disturbance.
What is in terms of fire? Can we replace that with pruning?
Emphasized – creating a balanced system

The Native Landscape-2013- co author Greg Rubin and Lucy Warren- S. Cal
Designed 750 Landscapes w/ Natives
San Diego 9 in/rainfall/ year -Off Shore winds dry it out
- most native plants are using varieties from SF fog bank (all named after N. Cal places)
Type conversion 1970-2001 to annual grasses (2x fires) no chaparral
Fuel reduction- flashy fuels of annual grasses is the main landscape and perpetuates
Mistaken to believe too many fires – no chaparral
1919- current 97% human caused ignition (Arson, powerlines, smoking, sparked landscape
equipment, trash burning)

Low Input – High Impact Patricia Algara – With Honey in Heart
Landscape Architect –
- Over 1 million insects – taxa (only 20% we know of)
- 20,000 bees, 400,000 species of beetles; these are our Vital Ecosystem Services
- Habitat loss, urbanization, pollution, pathogens
- Interest – tracking – fall in love with insects

Pollinator Boulevard – Dolores and Market St meridian strip– San Francisco
- Used both native and non-native species-
Volunteer led – green waste for mulch came from the city and Whole Foods – donated material
Found 11 species of bees – tracked what flowers they go to – 1st year
Soil and rainwater capture – make sure to plant large plants in the center

Watershed Approach to Landscaping – Keith Bancroft MMWD
Maringwater.org /WAL
110 Waterwise plants – Guidebook on low maintenance
He emphasizes design of your home garden
- retain water on your property, build healthy soil, avoid irrigation (25% of irrigation over water)
Community College course and an Eco-Friendly Garden Tour in May – Marin – Sonoma

A Less Toxic Approach to Gardening Suzanne Bontempo- IPM Educator
– Our Water Our World
Build Healthy Soil – Synthetic Fertilizer are high in Salts
Mulch – saves H2O- Use Organic fertilizers
Compost corrects every situation = bacteria and beneficial fungi
Nutrient transport systems – use cover crops, leave fava to decompose, etc

Defensible Space / Veg Mngmt / Home Hardening – Todd Lando ED of Firesafe Marin
First 1919 – major fires destroyed 100s of homes
Tamalpais Forest Fire District – 1st Self Imposed Tax for Wildfire in the Country for Wildlands
Feb 28th 2019 - San Bruno wildland fire – first in the winter
Most homes ignite from embers – demo of ember resistant and ignition resistant material
home during hours of fire storm- only lawn chairs slightly burned (Chapter 7 of Home Building
Code) Demo of model house on fire – local expert on materials

Panel Q and A - Paul da Silva – We Know A Lot- Helps us with what we don’t know!
- What is the current standard on recommended Plant List?
  “Fire Resistant Plant List” Does it exist? – mostly antedote notice not on sci literature
- Todd – What is know is what is Fire Prone – he has seen it!
  Keith- What is important how you design your landscape than the individual plants