

February 8, 2016

IPRO 497-221 Integrating Hydroponics into the Workplace Environment

TEAM

RESEARCH FOCUS

Biological

Patrick A Walker Showers

Growing Media and Structures (that plants use to grow on-in)

What are the root-structures of attachment (microscopic) and how to they attach-structurally (perhaps we can appreciate their structure)

Maria A. Moreno

Plants (fishes) and succulents

Juan Soles

Likely-hood of pests and natural controls for them

[Since we have plants, we'll have bugs. If we have bugs, we ought to manage them sustainably]. In managing the insect world we should consider introducing predator species such as praying mantis, spiders (various varieties).

Bobby Unverzagt

Plants-grasses vs lichen + building on existing research

Design

Edgar Alvarado

Structures and materials

Stay coordinated with all teams to reduce redundancies

Yueheng Lu

State of hydroponic-hydroponically oriented furnishings (existing examples of hydroponic products involving interior furnishings)

Mario Roman

Evolution of the workplace

(Pre-post-industrial and the potential threat of automation/robotics)

Ignacio Carrera

Dimension Standards

(the ergonomics of plant-proximity versus productivity)

Eric Runnfeldt

Systems integration in furniture

MECHANICAL ELECTRICAL PLUMBING (MEP)

Dean Nelson

Plumbing

(How much water do we really need? Dean speaks with Bio-team...)

David McWilliams

Lighting

(How much light? Where? How close? Plants vs work-lighting Photonics-photometric)

Hong Zhang

HVAC (Heating, Ventilation and Air Conditioning)

(Optimal conditions, optimal human-plant balance)

Joseph Arreola

Natural Materials for growing systems

Talk to Edgar Alvarado and Patrick W Showers, others so as to minimize potential redundancy

Kevin Punatar

"Structure-maintaining the body"

What does that quote mean?

Kevin will study a form of metaphysics-fringe-sciences Dr George Pratt's work on balancing the electrical charges of the body as well as magnetics, research from The Secret Life of Plants book, charging the body by pressing the spine against a tree while barefoot, ancient text accounts of walking barefoot on wet grass and what this does to the electrical charge of the body...