

## Bernard A. Kratky Bio-Bibliography

University of Hawaii, College of Tropical Agriculture and Human Resources  
Tropical Plant and Soil Sciences Department  
Horticulturist, R-5, 100% Research Appointment  
Initial Hire: July, 1971

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Ph.D. Purdue University, 1971; Horticulture/Weed Science  
M.S. Purdue University, 1969; Horticulture/Weed Science  
B.S. University of Wisconsin, 1967; Agronomy

### Sabbatical Leaves:

1978; National Vegetable Research Station, Wellesbourne, UK (6 months)  
1985-6; Asian Vegetable Research and Development Center, Taiwan (12 months)  
1993-4; University of Wisconsin-Madison (6 months)  
2000-2001 The University of Queensland, Gatton, Australia (6 months)  
2007; The Pennsylvania State University, Horticulture department (6 months)

### U.S. Patents

3,648,409; Johnson, P.E., C.G. Haugh, G.F. Warren and B.A. Kratky.  
Herbicide resistant seed carriers and process for manufacture thereof.  
4,736,694; Kratky, B.A. and R. Fornof. Hand transplanter for containerized seedlings.  
5,210,973; Kratky, B.A. and G. Maehira. Trellis Clip.  
5,385,589; B.A. Kratky. Non-circulating hydroponic plant growing system.  
5,533,299; B.A. Kratky. Non-circulating hydroponic plant growing system.

### Research (100% Time)

I am Project Leader of Horticulture Project 872 "Cultural Studies of Intensive Vegetable Production". Experiments are being conducted at The Beaumont Agricultural Research Center in Hilo and at various UH Research Farms on the Island of Hawaii.

### Objectives for the next 5 years

- 1.) Adapt an inexpensive nutrient solution tank for growing long-term vegetables by non-circulating hydroponic methods.
- 2.) Adapt the suspended pot, non-circulating hydroponic method to grow ratoon crops and develop a float-support system in a raceway.
- 3.) Develop a sub irrigation hydroponic system for root and tuber crops.