

Harrison Hughes

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and Landscape Architecture
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EDUCATION

B.S. Botany; Eastern Illinois University; Charleston, IL; August 1969
Ph.D. Plant Genetics and Breeding; Department of Horticulture; Purdue University; West Lafayette, IN;
May 1974.
Dissertation: Polyhaploid production in the cultivated strawberry Fragaria x ananassa L.

EXPERTISE

Educator teaching and training students in general horticulture, plant propagation and applied plant biotechnology. General plant propagation, and plant tissue culture with an emphasis in micropropagation. Plant genetics and breeding. Germplasm preservation. Small fruit culture. Applied plant biotechnology-transformation with particle gun and Agrobacterium, as well as DNA fingerprinting using RAPD technology.

PROFESSIONAL APPOINTMENTS

Purdue University, Instructor 9/1/73 - 6/1/74
Department of Horticulture

SUNY - Cobleskill, Teaching Faculty 9/1/74 - 9/1/76
Department of Plant Science

University of Kentucky, Visiting Professor, 6/1/75 - 8/15/75
Department of Agronomy, Research

University of Rhode Island, Teaching Faculty, 9/1/76 - 8/1/77
Department of Plant Science

Colorado State University, Teaching/Research Faculty 8/15/77 - present
Department of Horticulture

Sabbatical Leave, Research, 6/11/84 - 12/31/84
University of California, Davis
Fruit and Nut Clonal Repository

Summer Cooperative Research 6/10/91 - 8/25/91
SERI
Transformation in Higher Plants; Particle Gun and Protoplast Uptake of DNA

Sabbatical Leave, Research 1/15/92 - 7/15/92
Plant Molecular Biology Laboratory
USDA, Beltsville, MD
Transformation in Peach (Agrobacterium and Particle Gun)

Sabbatical Leave, Research 7/1/1998 - 12/31/1998
Plant Germplasm Preservation Research Laboratory
National Seed Storage Laboratory
USDA, Fort Collins, CO
Studies on Tissue Culture and Cryopreservation of Turfgrass species

TEACHING & PROFESSIONAL ACTIVITIES

Departmental Committees

Graduate Admissions/Policy Comm.--Chair for 4 years.
Resident Instruction Comm.-- for 28 years.
Tenure and Promotion Comm.-- for 12 years including chair for 4 years.
Research Comm.-- for several years.
Alumni Relations Comm. – several years.
Edited the department newsletter.
Represented the department to the faculty council.
Scholarship comm. for 20 years.
Coordinator for the internship program in the department for 20 years.
Served on numerous faculty and the department head selection comm.
Served on numerous ad hoc committees related to departmental governance and evaluation.

College committees.

Represented the college at large to faculty council.
College Scholarship Comm. for 12 years.
College Resident Instruction Comm. for 3 years.
Represent the college in the All University Research/Creativity Symposium for 5 years.
Served on selection comm. for Associate Dean of the Agricultural College

University.

Served on the Scholastic Standards Comm. for 6 years and 1 year as chair.
Served on the Physical Development Comm. for 4 year.
Served in faculty council for 16 years.
Served on the executive comm. of faculty council for 2 terms of 2 years each.
Served on a grievance comm. involving a department head and classified staff.

Other Activities

Key Advisor for the Horticulture Major for 16 years.
President of ASHS--Western Region--one term.
President of Gamma Sigma Delta local chapter for 1996-97
Chair of the Teaching Methods working group of ASHS for 3 different years & Plant Propagation Working Group.
Chair of ASHS Scholarship Comm.
Served on the Collegiate Activities Comm. of ASHS
Hort Club Advisor for 21 of the past 28 years.
Reviewer of publications for several publishing companies.
Have served on a panel in Texas for research grants and for several federal agencies.

CLASSES TAUGHT

H100 (4 Cr.) Basic Horticulture/Horticultural Science-lab and lecture-Fall & Spring.
H260 (4 Cr.) Plant Propagation--lecture course--Spring semester.
H384 Supervised College Teaching
H452 (3 Cr.) Fruit Crop Production--lecture course--Fall/alternate years.
H460 (3 Cr.) Plant Breeding--lecture course--Spring/alternate years.
H461 (1 Cr.) Plant Breeding Lab--lab course--Spring/alternate years.
H495 (Variable) Independent Study
H487 (Variable) Internship--all semesters.
H496 (Variable) Group Study
A/B545 (2 Cr.) Plant Tissue Culture--graduate level lecture course--Fall/alternate years.
A/B546 (1 Cr.) Plant Tissue Culture Lab--graduate level lab course--Fall/alternate years.
H575 (2 Cr.) Plant Germplasm Conservation--graduate level course--Spring/alternate years.
H698 Research
H699 Thesis
H795 Independent Study--Graduate Students
H799 Dissertation

OTHER EXPERIENCE

Instructor for Tissue Culture for Crops Project training courses in plant tissue culture. Coauthored the training manual.

Advisor or co-advisor to 31 (9 Ph.D., 22 M.S.) graduate students who completed their degrees and 4 (2 Ph.D., 2 M.S.) currently in progress.

Published 40 refereed articles on plant propagation, tissue culture, breeding and small fruit culture. Published 18 nonrefereed, extension articles and numerous local and regional presentations to growers groups.

Presented 75 reports at Horticultural and Plant Tissue Culture national and international meetings. Consultant to plant propagators, both traditional as well as tissue culture.

Invited speaker to National Council for Therapy and Rehabilitation Through Horticulture Conference; Topic Presentation was on Fruit Crops and Uses in Horticulture Therapy, 1985.

Invited speaker to North African Conference on Date Palm Propagation, sponsored by FAO, October of 1989.

Invited to the International Symposium on Date Palm in Namibia where I served as the opening moderator for the session on tissue culture and fingerprinting of date palm. February of 2000.

Co-author of Glossary of Plant Biotechnology and Tissue Culture, 1999. Currently published in four languages and republished in 2003. Published by FAO.

Invited to University of United Arab Emirates as reviewer of graduate program.

AFFILIATIONS

Member in Sigma Xi, American Society for Horticultural Science, International Plant Tissue Culture Association, International Horticultural Society, The American Genetic Association, Phi Alpha Xi, Alpha Zeta and Gamma Sigma Delta

HONORS

1966-69 Illinois State Education Scholarship

1968 Outstanding Botany Student Award

1977 Award in Appreciation for Guidance and Leadership from U.R.I. Plant and Soil Science Club

1979 Outstanding Professor in Horticulture at Colorado State University

1990 NACTA/Charles N. Shepardson Meritorious Teaching Award

1991 Award of Appreciation for Outstanding Service - CSU Horticulture Club

1991 President, Western Regions - ASHS

1994 ASHS Outstanding Graduate Educator Award

1994 Candidate for Vice-President for Education, American Society for Horticultural Science

Gamma Sigma Delta

Alpha Zeta

Sigma Xi

Pi Alpha Xi

Beta Beta Beta