

CURRICULUM VITAE

H. Michael Harrington Executive Director

Western Association of Agricultural Experiment Station Directors
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Education

1978 Ph.D. Botany - Plant Biochemistry, Ohio University, Athens, Ohio
1974 M.S. Botany - Plant Physiology, Miami University, Oxford, Ohio
1972 A.B. Botany, Miami University, Oxford, Ohio

Experience

- 2001 to present Executive Director Western Association of Agricultural Experiment Station Directors
- 1999 - 2000 Interim Dean and Director, College of Tropical Agriculture and Human Resources, University of Hawaii
- 1996 - 1999 Interim Director, Hawaii Institute of Tropical Agriculture and Human Resources, College of Tropical Agriculture and Human Resources, University of Hawaii.
- 1995 - 2000 Professor, University of Hawaii, Department of Plant Molecular Physiology
- 1992 - 1996 Assistant Dean for Academic Affairs, College of Tropical Agriculture and Human Resources, University of Hawaii
- 1989 - 1992 Department Chairman, Plant Molecular Physiology
- 1995 - present Full Professor, University of Hawaii, Molecular Biosciences and Bioengineering
- 1985 - 1995 Associate Professor, University of Hawaii, Department of Plant Molecular Physiology
- 1984 - 1985 Visiting Scientist and Assistant Professor, Vanderbilt University, Department of Pharmacology and Howard Hughes Medical Institute, Cellular and Molecular Biology Laboratory, Nashville, TN. (Sabbatical with Dr. D. M. Watterson).
- 1982 - 1985 Assistant Professor, Ball State University, Department of Biology, Muncie, IN
- 1980 - 1982 Visiting Assistant Professor, Bowling Green State University, Department of Biological Sciences, Bowling Green, OH
- 1978 to 1980 Postdoctoral Research Associate, University of Tennessee/Department of Energy, Comparative Animal Research Laboratory, Oak Ridge, TN

Memberships

American Society of Plant Biologists
Gamma Sigma Delta
Sigma Xi

Boards and Advisory Councils

Current:

- Board on Agriculture Assembly (BAA) Committee on Legislation and Policy (Farm Bill Committee) 2009 – present
- BAA Budget and Advocacy Committee 2006 – present
- Western Rural Development Center, 2006 – present, (chair membership subcommittee)
- Western IPM Center, Steering Committee and Advisory Board 2004 – present
- Experiment Station Committee of Organization and Policy (ESCOP), Executive Committee, 2001– present
- ESCOP Budget and Legislative Committee, 2006 – present (Vice Chair)
- Administrative Advisor Western Multistate Projects – W3122, W3190, WERA1004, WERA1005, WERA1020
- Fellow, National Center for Food and Agriculture Policy 2011-present

Previous:

- Western Sustainable Agriculture Research and Education Program, Advisory Council 2001 – 2016, past Chair
- CREATE-21 Committee (Farm Bill), Executive Vice Chair 2004-2009
- Lead 21 Leadership Development Program, Board of Directors 2006-2009. (Treasurer)
- Partnership Working Group, Co-Chair 2002-2006
- Agriculture Development in the American Pacific, Board of Directors 1999-2001
- Center for Tropical and Subtropical Aquaculture, Board of Directors 1996-2000
- Hawaii Board on Agriculture 1999-2001
- Hawaii Agriculture Leadership Foundation, Board of Directors 1998-2000
- Hawaii 4-H Foundation, Board of Directors 1999-2001
- Hawaii Research Center, Advisory Council 1996-2000
- Hawaii Rural Economic Transition Authority, Advisory Council 1998-2000
- Hawaii Agriculture Development Corporation, Advisory Council 1998-2000
- Hawaii Millennium Workforce Development Task Force 1998-2001
- University of Hawaii Community Partners, Board of Directors, 1998-2001
- University of Hawaii University Connections, Board of Directors, 1998-2001
- UH Sea Grant Program, Board of Director, 1996-2000

Leadership Training

- ESCOP-ACOP Leadership Development Program, Class IX

Leadership Activities in support of the Board on Agriculture Assembly (BAA)

- Provided leadership for a committee of pest management specialists and the development of a white paper detailing the needs for integrated pest management
- Conceived the idea that a national program on water security should be BAA priority. With Robin Sheppard provided leadership for a broad group of water specialists which resulted in a major white paper: National Initiative on the Improvement of U.S. Water Security. This proposal has been submitted to National Institute of Food and Agriculture (NIFA)
- At the request of the Budget and Advocacy Committee, and the BAA Policy Board of Directors, wrote white paper providing guidance and policies for bringing forward new initiatives from BAA members

Note: All of the above have been endorsed by the Policy Board of Directors.

- Currently serving on the Committee for Legislation and Policy and a subcommittee looking into the feasibility of combining a number of small programmatic lines in the NIFA budget.
- Annually develop budget priorities survey for the Experiment Station Section (ESS)
- Developed surveys and summarized ESS priorities for the 2018 Farm Bill

Meetings Hosted/Organized

- Experiment Station Section Annual Meeting, Estes Park, CO, September, 2011
- New Deans and Directors Workshop and Orientation, 2002, 2004, 2006, 2010, 2012
- Western Association of Agricultural Experiment Station Directors Annual Meeting, Kailua-Kona, HI. March, 1999
- Agricultural and Marine Biotechnology: Emerging Technologies for Hawaii's 21st Century. Honolulu, HI. February, 1998
- Western Region Land Grant Colleges of Agriculture Joint Summer Meetings, Wailea, Maui. July, 1997
- Binational US/Australia Conference on Heat Tolerance in Temperate Cereals, Kailua-Kona, HI. February 1994
- Plant Stress in the Tropical Environment, Kailua-Kona, HI. September, 1992
- Calcium Research on Plants: A Workshop on Methods. Kailua-Kona, HI. January, 1989

Grantsmanship Workshops

Organized numerous workshops that provided training to faculty on “Writing Winning Grants”. Developed all materials and created a 400+ page manual that provided information on federal agency programs as well as those offered by foundations. The workshops were presented with Tom Fretz, Arlen Leholm, Robin Shepard were attended by well over 1000 professionals many of whom increased their success in obtaining grants. .

Awards and Fellowships

- CSREES Meritorious Service Award 2006
- TIGR Industry Support Award (Biotechnology). City Bank-Hawaii Business 1999
- University of Hawaii Service Award Outstanding Team Service Award 1998

Research Interests

Research focused on the characterization of stress responses, stress-regulated proteins and of the roles of calcium and calmodulin in plant cells.

Research Grants

- Nucleoside diphosphate kinase and the plant heat shock response. USDA-NRI Competitive Grants Program. #95-37100-2025 (\$100,000).
- 1992-1997 Research collaboration group in plant protein phosphorylation. USDA/DOE/NSF USDA #92-37105-7675 (\$250,000) D. Randall PI, with other 15 scientists
- 1992-1995 Characterization of a heat shock-induced calmodulin-binding protein. USDA Competitive Grants Program, USDA-CSRS #92-37100-7737 \$132,000)
- 1991-1994 Molecular mechanisms of aluminum toxicity. USDA/CSRS #91-34135-6166 (\$143,000) Co-PI with Dr. Michael Dunn
- 1990-1994 Functional analysis of a low molecular weight heat shock protein in a tropical plant. USDA/CSRS #90-34135-5345 (\$147,309)
- 1990 Characterization of a heat shock-induced protein kinase. USDA-Competitive

- Grants Program, (\$100,000) withdrawn to accept the above
- 1988-1991 Molecular biology of salt stress in sugarcane. Hawaii Sugar Planters' association, (\$42,000).
- 1986-1989 The molecular basis for thermotolerance in tropical plants. USDA-CSRS #86 2-2828 (\$168,469).
- 1985 NSF Small College Opportunity Award #DMB 8405374 (with D.M. Watterson), Plant Calmodulin (\$25,000).

Other Grants

- 2006 New Deans and Directors Workshop USDA-CSREES
- 2004 New Deans and Directors Workshop USDA-CSREES # 2005-38840-02269, \$5000
- 2002 New Directors and Administrators Workshop USDA-CSREES #2003-38840-02100 \$5000
- 2000 Agricultural Development in the American Pacific. USDA-CSREES #00-38826-9180 (\$527,904)
- 1999 Agricultural Development in the American Pacific. USDA-CSREES #99-38826-7854 (\$527,904)
- 1994 USDA Minority Scholarship Program. (with A. Chun and S. Yuen) (\$80,0000)
- 1992-1995 Agricultural Instructional Media Service. Agriculture Development in the American Pacific (ADAP)/USDA Grant (\$300,000)
- 1988 NSF Cell Biology Program. Calcium Research on Plants: A Workshop on Methods. (with Peter K. Hepler) (\$6000)
- 1988 USDA Competitive Research Grant. Calcium Research on Plants: A Workshop on Methods. (with Peter K. Hepler) (\$30,000)

Graduate Student Theses and Dissertations Directed

- Xinli Li, PhD, 2000 Molecular Cloning and characterization of a cyclic nucleotide and calmodulin-gated cation channel in Arabidopsis. University of Hawaii
- Sagarika Dash, Ph.D, 1996 Molecular cloning and characterization of a tobacco calmodulin binding protein. University of Hawaii
- Nihal Dharmasiri, Ph.D, 1996 Molecular cloning and characterization of the gene encoding a heat shock-induced calmodulin binding protein. University of Hawaii
- Sunethra Dharmasiri, Ph.D, 1995 Identification, characterization and cloning of sugarcane nucleoside diphosphate kinase. University of Hawaii
- Sue-Hwei Chang, Ph.D. 1994 Molecular studies on NaCl stress in sugarcane: Changes in protein synthesis and protein phosphorylation. University of Hawaii
- Ying-tang Lu, PhD. 1991. Characterization of calmodulin-binding heat shock proteins and Characterization of cDNAs encoding calmodulin-binding proteins in cultured tobacco cells. University of Hawaii
- Stefan Moisyadi, PhD, 1991. Characterization of the heat shock response and a heat shock-induced protein kinase in cultured sugarcane cells. University of Hawaii
- Sunethra Dharmasiri, MS, 1990. Effect of salt on protein synthesis in cultured tobacco cells. University of Hawaii
- David Alm, MS, 1985. Thesis title: Comparison and Interaction of heat and salt stress in cultured tobacco cells. Ball State University

Graduate Student Committee Memberships

- Served on more than 30 graduate student committees.

Postdoctoral Research Associates

- Dr. Nihal Dharmasiri 1996-1999
- Dr. Kerry Kakazu 1986-1987

National Science Foundation Young Scholars Program Mentor

- Mentored 11 outstanding high school students (2 to 3 students/year) from 1992 to 1998.

USDA Research Apprentice Program Mentor

- Mentored Ms. Wendy Kaneshiro worked nearly full time during the summer of 1993 and part-time throughout the school year on a project, "Improving crop viability using supplemental ions to induce rapid thermotolerance". This work won local and state science fairs and was second at the International Science Fair at Huntsville, AL

Instructional Activities

I have taught at the university level for some 20 years. During this time I have taught a wide variety of courses at both the undergraduate and graduate levels. Included are introductory courses in Biology, Botany, Trees and Shrubs, Spring Flora, Plants, Man and the Environment; and advanced graduate courses in Cell Biology, Plant Physiology, Plant Biochemistry, Plant Cell Physiology and the signal transduction segment of a graduate course in Molecular Biology of the Cell.