Irrigation Show 2016

Las Vegas, Nevada, USA 6 - 7 December 2016

ISBN: 978-1-5108-4188-8

Printed from e-media with permission by:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2016) by Irrigation Association (IA) All rights reserved.

Printed by Curran Associates, Inc. (2017)

For permission requests, please contact Irrigation Association (IA) at the address below.

Irrigation Association (IA) 8280 Willow Oaks Corporate Drive Suite 400 Fairfax, Virginia 22031 USA

Phone: 703.536.7080 Fax: 703.536.7019

info@irrigationshow.org

Additional copies of this publication are available from:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571 USA Phone: 845-758-0400 Fax: 845-758-2633 Email: curran@proceedings.com Web: www.proceedings.com

2016 Irrigation Show Technical Program, Las Vegas, Nevada Agricultural Sessions December 6-7, 2016

Dava Na		Application of Drin Invigation
Page No.	Author/ Presenter	Application of Drip Irrigation
2	Charles Burt	Managing Drip Filter Backflush Water
9	Chris Binfield	Reversing Yield Loss by Managing Distribution Uniformity.
15	Pete William Jacoby	Effects of root-zone micro-irrigation on Cabernet Sauvignon
24	Josue Samano-Monroy	Nitrate Leaching from Surface-Drip Irrigated Cauliflower
31	Dave Goorahoo	AirJection Irrigation Mitigates Denitrification & Leaching
40	Guangyong Li	A Sowing Method for SDI to Increase Emergence Rate in Corn
62	Zhuping Sheng	Prospects and Challenges of the Drip Irrigation Development in Xinjiang, China
		Center Pivot Irrigation & General Information
71	Charles Swanson	Evaluating Center Pivot Dragline Drip Irrigation Systems
78	John Maurer	Close Spacing LEPA Applicators Improve Irrigation Efficiency
85	Jon R Johnston	
92	Calvin D Perry	Lowering Average Application Rate (AAR) expands potential of Center Pivots A Dynamic Variable Rate Irrigation Control System
92 105	Jake LaRue	
105		Using Aerial Imagery for Irrigation Management Comparing Mobile Drip Irrigation to Low Elevation Spray Application in Corn
	Isaya Kisekka Biobard St Aubin	
120	Richard St-Aubin Jason Scott	Molecularly Oriented PVC Pipe for Water Transmission
126	Jason Scoll	Irrigation and ESA-Success in Partnerships
	D	Irrigation Management
131	Dong Wang	Infrared Thermometry for Deficit Irrigation of Peach Trees
136 155	Marshall English Natalio Mendez	Scheduling for Deficit Irrigation Effect of RDI on quality and economic yield of navel oranges
168	Kendall DeJonge	The Northern CO Limited Irrigation Research Farm
187	George Vellidis	A Smartphone App for Scheduling Irrigation in Cotton
199	Freddie Lamm	Irrigation Scheduling of Field Corn Under Institutional Constraints
208	Shalamu Abudu	Irrigation Scheduling of Pecan Trees in El Paso, Texas
200	Danny Rogers	Adapting the Kansas Crop Water Allocator to Multi-year Use
217	Danny Rogers	
		Using Sensor Technology
227	Charles Hillyer	Precision Ag Irrigation Language (PAIL) Project
245	Kenneth Stone	Managing Variable-Rate Irrigation Using NDVI
253	Stacia L Davis	Sensor Strategies for Scheduling Irrigation in Louisiana
261	Theodore Sammis	Calibration of Low cost infrared thermometer to measure CWSI
273	Ruixiu Sui	Use of Soil Moisture Sensors for Irrigation Scheduling
280	Steven R. Evett	Relating available water fraction to water stress indices
Landscape Sessions		
		Controller & Sensor Technology
292	David William Smith	Application of Advanced Residential Irrigation Controller Features
306	Pappu Kumar Yadav	Study of Moisture Sensors' Response to Drying Cycles of Soil
326	Charles Swanson	Variation in Urban ET to Determine Weather Station Siting
334	Mark A. Crookston	Full Season Comparison of Weather Based Smart Controllers
004		
0.47		Design & Evaluation
347 354	S.Tanner, J. Kind Brent Mecham	Creating a WaterSense Label for Efficient Landscape Sprinklers A New Way to Characterize Sprinkler Performance
365	Robert D von Bernuth	Drip System Design for Established Landscape Trees
505	Robert D von Demutin	
		Irrigation Management
380	Bernd Leinauer	Turfgrass Selection to Maximize Water Efficiency
386	J. Moss, D. Harris	Water Source Effect on Golf Course Soil Quality in Oklahoma
391	Mark A. Crookston	Seasonal Curves for Turfgrass Using Dual Coefficient Method
404	Doug Pushard	A New Approach to Sustainable Irrigation Practices
		Program Case Studies
408	Carrie Pollard	Lawn Replacement Pilot Program
416	Kent A. Sovocool	SNWA Rate of Play Study Using GPS: Finding Turf to Convert
421	Eric Becker	Converting Kentucky Bluegrass to Native Grass in City Parks
433	John Gebhart	From Auditor to Consultant
444	David William Smith	Making the Case for Targeted Water Conservation Education