Technology Transfer from Subsurface Drip Irrigation Studies
KSU Northwest Research-Extension Center, March 1989 – December 22, 2017

BOOKS AND BOOK CHAPTERS


REFEREED JOURNAL ARTICLES


**NATIONAL ASAE PAPERS**


NATIONAL & INTERNATIONAL CONFERENCES


KWRRI REPORTS


MID-CENTRAL REGIONAL ASAE PAPERS


CENTRAL PLAINS IRRIGATION CONFERENCE


EXPERIMENT STATION PUBLICATIONS


COOPERATIVE EXTENSION PUBLICATIONS


**DEPARTMENTAL STAFF PAPERS**


**MAGAZINE ARTICLES**


Stalcup, L. 2013. **Switch to Drip Irrigation -Subsurface drip irrigation systems reduce net irrigation needs by nearly 25% while maintaining yields.** Corn and Soybean Digest, February 1, 2013. 3 pp.


MISCELLANEOUS TECHNOLOGY TRANSFER
Discussion and field tour for three Netafim staff, December 20, 2017
Discussion of SDI at Leibniz University, Hannover, Germany December 1, 2017.
Discussion of SDI with Colby Community College students, November, 2017
Discussion of SDI and tour of SDI Facilities for 10 irrigation dealers from Italy at KSU-NWREC, October 9, 2017.
Discussion of SDI for Farm Bureau Masters Group, October 6, 2017.
Discussion and field tour for two Netafim staff, June 20, 2017.
Discussion and field tour for two Netafim staff, May 24, 2017.
Poster presentation of **Can we make it work and can we make it pay?** for Waterways exhibit at Prairie Museum, Colby, Kansas, Aug.-Sept., 2017.


Powerpoint presentation of **Subsurface Drip Irrigation: Here Today, Here to Stay** at Colorado River Water Users Association conference, December 14, 2016, Las Vegas, NV.

Powerpoint presentation of **A new sowing method for improving spring corn germination and yield under SDI** at Irrigation Association Technical Conference, Dec. 6-8, Las Vegas, NV. Presentation made for Dr. G. Li, Chinese Agricultural University, Beijing, China.

Powerpoint presentation of **W-3128: Scaling Microirrigation Technologies to Address the Global Water Challenge -Kansas 2016 Report** to USDA-NIFA multistate project W-3128, November 6, 2016, Phoenix, AZ.

Powerpoint presentation of **Advancing SDI for lower value crops - Opportunities and Challenges** at Big 12 Water Conference, September 25, 2016, Waco TX.

Moderator for technical session, Progress with Subsurface Drip Irrigation for Commodity Crops at ASABE annual international meeting, July, 2016 in Orlando Florida.

Poster presentation and discussion of **Irrigated Water Management at K-State for Western Kansas** as part of K-State Research Showcase, March 22, 2016 in Manhattan, Kansas.


Powerpoint presentation of **Frequently asked questions about subsurface drip irrigation** in Netafim Irrigation session at Commodity Classic, New Orleans, Louisiana, March 5, 2016.

Powerpoint presentation of **Frequently and not-so-frequently asked questions about subsurface drip irrigation** at the Oklahoma Irrigation Conference, Woodward Oklahoma, March, 8, 2016.

Tour and discussion of SDI efforts at NWREC with Ami Gips and Tim Wolf, Netafim Irrigation, June 14, 2016.

Tour and extended discussion (1/2 day) of irrigation projects and facilities at NWREC with three CSU faculty members, September 7, 2016.

Tour of station and SDI facilities and discussion for Kansas Farm Bureau Masters Group, September 30, 2016.

Youtube video concerning KSRE efforts with microirrigation in China https://www.youtube.com/watch?v=udxo7rlDZx4

K-State Research and Extension news release concerning microirrigation cooperative efforts in China, December 17, 2015.


General microirrigation discussions with Chinese colleagues in China, October 10-22, 2015.

Powerpoint presentation of **Advancing SDI for lower value crops - opportunities and challenges** at Northwestern A&F University, Yangling, China, October 15, 2015.
Powerpoint presentation of **Frequently and Not-So-Frequently Asked Questions about SDI** at International Academic Exchange and Training Workshop on Microirrigation, Chifeng, China, October 13, 2015.

Powerpoint presentation of **Advancing SDI for lower value crops - opportunities and challenges** at Irrigation in Action conference at Chinese Agricultural University, Beijing, China, October 11, 2015.

Planning and international coordination of technical exchange with Chinese Agricultural University, Beijing, China including inviting the international guests to Irrigation in Action conference. Summer, 2015.

Tour of station and SDI facilities and discussion for Kansas Farm Bureau Masters Group, October 6, 2015.

Discussion and tour of SDI facilities as part of an exchange with students from Quinter, Kansas High School, September 28, 2015

Powerpoint presentations, discussion of SDI, and tour of SDI facilities for 6 individuals from Pakistan as part of KSU-USAID On-Farm Management Training, August 26, 2015, Colby Kansas.

Tour of SDI facilities and nutrient managements studies for 2 staff from Netafim USA, July 14, 2015.

Powerpoint presentations, discussion of SDI, and tour of SDI facilities for 8 individuals from Pakistan as part of KSU-USAID On-Farm Management Training, May 13, 2015, Colby Kansas.

Powerpoint presentation of **The nexus between precision data and advanced irrigation system & management technologies (Lite Version)** for approximately 30 staff from IBM Watson Research Facility, April 29, 2015 at Yorktown Heights, New York.

Powerpoint presentation of **The status of SDI in the central and southern Great Plains** at annual meeting of the Ogallala Aquifer Program, March 12, 2015 at Manhattan, Kansas.

Poster presentation of **Strategies to Improve Crop Germination When Using SDI** at annual meeting of the Ogallala Aquifer Program, March 13, 2015 at Manhattan, Kansas.

Poster presentation of **SDI Pros and Cons** at annual meeting of the Ogallala Aquifer Program, March 13, 2015 at Manhattan, Kansas.

Powerpoint presentation of **The nexus between precision data and advanced irrigation system & management technologies** (Discussion of SDI and other irrigation technologies) for staff from IBM and COA administrators, March 9, 2015 at Manhattan, Kansas

Poster presentation of **SDI Pros and Cons** at 27th annual Central Plains Irrigation Conference, Colby Kansas, February 17-18, 2015.

Poster presentation of **The Ogallala and the potential for SDI** at 27th annual Central Plains Irrigation Conference, Colby Kansas, February 17-18, 2015.

Distribution of SDI and the Great Plains CDs at Central Plains Irrigation Conference, February 17-18, 2015, Colby, Kansas.


Oral discussion of progress with MIWterQuality software to USDA-NIFA multistate project W-3128, October 22-24, 2014, Nashville, TN.

Interview for Argentina television station, October 15, 2014

Interview for Argentina newspaper with photos, October 15, 2014

Brief video entitled **Subsurface Drip Irrigation** featured in State of the University Address, September 29, 2014.

Tour and discussion for Quinter High School FFA and Biology classes, September 29, 2014.

Tour of station and SDI facilities and discussion for Kansas Farm Bureau Masters Group, October 7, 2014.

Poster presentation of **The Ogallala and the potential for SDI** at 100th anniversary field day, Colby, Kansas, September 6, 2014.

Poster presentation of **Water and Nitrogen management for corn using SDI** at 100th anniversary field day, Colby, Kansas, September 6, 2014.

SDI tour for Tony and Helen Sawyers, visitors from Boort, Victoria, Australia, August 21, 2014.

SDI Tour and discussion of sprinkler irrigation with Haijun Yan, Chinese Agricultural University, August 14, 2014.
SDI tour for Alejandro A. Pannunzio and Roy Dardo Fontanella, visitors from Argentina, August 4-7, 2014.

SDI Tour and discussions with 4 visitors from China, July 29 – August 7, 2014.

Interview for K-Stater alumni magazine, August 25 2014.

SDI tour for Tony and Helen Sawyers, visitors from Boort, Victoria, Australia, August 21, 2014.

Discussion of subsurface drip irrigation and water management with University of Connecticut summer class touring USA, Colby, Kansas, May 22, 2014.


Poster presentation of Application of Biological Effluent with SDI at SDI Technology Field Day, Colby, Kansas, August 6, 2014.

Poster presentation of Effect of Emitter Spacing on Corn Production at SDI Technology Field Day, Colby, Kansas, August 6, 2014.

Poster presentation of Filtration for SDI Systems at SDI Technology Field Day, Colby, Kansas, August 6, 2014.

Poster presentation of Corn Management with SDI to Save Water Resources at SDI Technology Field Day, Colby, Kansas, August 6, 2014.

Poster presentation of Comparison of SDI and simulated LEPA sprinkler Irrigation for corn at SDI Technology Field Day, Colby, Kansas, August 6, 2014.

Poster presentation of Minimal System Requirements for SDI at SDI Technology Field Day, Colby, Kansas, August 6, 2014.

Poster presentation of The Ogallala and the potential for SDI at SDI Technology Field Day, Colby, Kansas, August 6, 2014.

Poster presentation of How can I use records of pressure and flow measurements to diagnose SDI system problems? at SDI Technology Field Day, Colby, Kansas, August 6, 2014.

Poster presentation of SDI Pros and Cons at SDI Technology Field Day, Colby, Kansas, August 6, 2014.

Poster presentation of Slope Considerations for SDI at SDI Technology Field Day, Colby, Kansas, August 6, 2014.

Poster presentation of Spacing of Driplines for Corn at SDI Technology Field Day, Colby, Kansas, August 6, 2014.

Poster presentation of Steps to a Successful SDI System at SDI Technology Field Day, Colby, Kansas, August 6, 2014.

Poster presentation of SDI with Temperature-Time Threshold (TTT) at SDI Technology Field Day, Colby, Kansas, August 6, 2014.

Poster presentation of What is SDI? at SDI Technology Field Day, Colby, Kansas, August 6, 2014.

Poster presentation of KSU bed management system for SDI at SDI Technology Field Day, Colby, Kansas, August 6, 2014.

Poster presentation of Can we make it work and can we make it pay? at SDI Technology Field Day, Colby, Kansas, August 6, 2014.

Poster presentation of Chemical injector considerations for SDI at SDI Technology Field Day, Colby, Kansas, August 6, 2014.

Poster presentation of Installation depth considerations for SDI at SDI Technology Field Day, Colby, Kansas, August 6, 2014.

Poster presentation of Strategies to improve crop germination when using SDI at SDI Technology Field Day, Colby, Kansas, August 6, 2014.

Poster presentation of Water and Nitrogen management for corn using SDI????? at SDI Technology Field Day, Colby, Kansas, August 6, 2014.

Poster presentation of Comparison of SDI and alternative irrigation systems for cotton, grain sorghum, and soybean at SDI Technology Field Day, Colby, Kansas, August 6, 2014.

Poster presentation of Water quality considerations for SDI at SDI Technology Field Day, Colby, Kansas, August 6, 2014.

Poster presentation of Alfalfa Production with SDI at SDI Technology Field Day, Colby, Kansas, August 6, 2014.


Oral presentation of Subsurface drip irrigation for corn production: Improved water use and nutrient management at launch meeting of “High Efficient Water Use in Agriculture” project (111 plan), Beijing China, June 1-7, 2014.
Poster presentation of **What is SDI?** at *Making the Most of Limited Water* meeting at Hoxie, Kansas, March 11, 2014.

Poster presentation of **Steps to a successful SDI system.** at *Making the Most of Limited Water* meeting at Hoxie, Kansas, March 11, 2014.

Poster presentation of **Application of biological effluent with SDI** at *Making the Most of Limited Water* meeting at Hoxie, Kansas, March 11, 2014.


Oral presentation of **Successful SDI - Addressing the essential issues** at Clearwater Supply grower meeting, Ontario, Oregon, February 5, 2014.

Oral presentation of **SDI for corn production - A brief review of 25 years of KSU research** at Clearwater Supply grower meeting, Ontario, Oregon, February 5, 2014.

Oral presentation of **SDI, the basics of successful systems** to the North Carolina Irrigation Society, Raleigh, North Carolina, November 12, 2013.

Oral presentation of **Using Livestock Wastewater with Subsurface Drip Irrigation** to the North Carolina Irrigation Society, Raleigh, North Carolina, November 12, 2013.

Discussion of microirrigation projects and technologies at annual W-2128 meeting, Denver, Colorado, November 14-16, 2013.


Discussion and tour of SDI facilities for Rodney Ruskin, GeoFlow and Ahmet Attaroglu, Agplastik, October 30, 2013, Colby, Kansas.

Discussion and tour of SDI facilities for Rodney Ruskin, GeoFlow and Ahmet Attaroglu, Agplastik, October 30, 2013, Colby, Kansas.

Oral presentation of **SDI for Crop Production in the Great Plains - Approaching the 25th Anniversary of K-State's Research and Extension Efforts** to the Governor’s Water Conference, Manhattan, Kansas, October 25, 2013.

Tour of station and SDI facilities and discussion for Kansas Farm Bureau Masters Group, October 1, 2013.

Tour of station and SDI facilities and discussion for Iryne McDonald and agronomy class from Colby Community College, September 26, 2013.

Discussion and tour of SDI with local farmer, September 13, 2013.

One hour webinar entitled **Subsurface Drip Irrigation (SDI) for Grain Crop Production – Challenges and Opportunities** for Grange Network, September 12, 2013. [http://www3.grangenetwork.com](http://www3.grangenetwork.com)

Discussion of SDI facilities at Tear Down the Walls meeting, Colby, Kansas, August 14, 2013.

Tour and discussion of SDI for 20 visitors from Australia arranged by Jan Windscheffel and Sam Burrell, Netafim Irrigation, August 12, 2013.

Tour and discussion of SDI for 4 visitors from Colorado State University, August 1, 2013.

TV interview on water and irrigation for Smoky Hills Public Television by Rodrigo Lopez, June 6, 2013


Discussion of SDI with staff from Ventria Biosciences, Junction City, Kansas, March 27, 2013.

Kansas Water Office conference call and discussion of SDI within the newly formed Sheridan HPA#6 LEMA., March 21, 2013.

Kansas Water Office discussion of SDI within the newly formed Sheridan HPA#6 LEMA., February, 5, 2013.

TV Interview on irrigation by Hays Public Access Channel, January 10, 2013.


Oral powerpoint presentation of The potential for conserving water with SDI for corn production at the Governor’s Water Conference, Manhattan, Kansas, October 30-31, 2012.

Poster presentation of Application of biological effluent with SDI at the Governor’s Water Conference, Manhattan, Kansas, October 30-31, 2012.

Poster presentation of Post-Anthesis Irrigation Management for Corn at the Governor’s Water Conference, Manhattan, Kansas, October 30-31, 2012.

Tour of station and SDI facilities and discussion for Iryne McDonald and agronomy class from Colby Community College, October 3, 2012

Tour of SDI facilities and discussion for Monsanto TDR group, September 19, 2012.

Tour of SDI facilities and discussion of SDI research for David Mack and Ami Gips, Netafim Irrigation, February 23, 2012.


Lamm, F. R. 2012. **Yield of two corn hybrid maturity as affected by management allowed depletion level.** In: A Summary of Water-Related Research in Kansas. Kansas State Univ. AES and CES, Manhattan, Kansas. pp 33.

Lamm, F. R. 2012. **Longevity of subsurface drip irrigation systems in Kansas.** In: A Summary of Water-Related Research in Kansas. Kansas State Univ. AES and CES, Manhattan, Kansas. pp 34.

Lamm, F. R. Oral powerpoint presentation of **Use of multiple performance parameters to evaluate SDI systems,** at annual W-2128 meeting, Las Cruces, New Mexico, November 15-18, 2011

Discussion of agricultural research and SDI technology with Farm Bureau Master’s program, October 6, 2011 at KSU-NWREC, Colby Kansas.

Tour of SDI and Lateral-Move sprinkler facilities and area sunflower producer for 5 individuals from Argentina, July 25-26, 2011

Tour of SDI facilities for KSU administrative staff, Geneva Jahnke, Terri Fayle, Doug Elcock and Bob Gillen, July 19, 2011.

Oral powerpoint presentation of **Twenty-Two Years of Progress with SDI in Kansas** at Sino-US Workshop on Microirrigation, Beijing China, April 23, 2011.

Oral powerpoint presentation of **Unique Challenges with Subsurface Drip Irrigation** at Sino-US Workshop on Microirrigation, Beijing China, April 23, 2011

Oral powerpoint presentation of **Some Design and Management Thoughts for SDI Systems** to Inner Mongolia Jin Tu Di Water-Saving Engineering Equipment Company near Wengniute, Chifeng, China, April 26, 2011

Lamm, F. R., Approximately 15 hours of seminars/teaching to MS and PhD level engineering students at China Agricultural University, Beijing, China, April 16-20, 2011. Topics were microirrigation, sprinkler irrigation, water management, experimental design, creative thinking, and philosophies of technical writing in US journals.


Lamm, F. R. 2010. **Twenty-One Years of SDI Research in Kansas.** Presentation at the California Irrigation Institute annual conference, February 1-2, Sacramento, California.


Lamm, F. R. Discussion of SDI technology and participation in annual W-2128 meeting, Des Moines, Iowa, November 17-19, 2010

Lamm, F. R. Discussion of SDI technology with Farm Bureau Master’s program, September 30, 2010 at KSU-NWREC, Colby Kansas.

Lamm, F. R. Discussion of SDI research with Bobby Bassi, Syngenta Chemical, August 2, 2010 at KSU-NWREC, Colby Kansas.


Lamm, F. R.  2010.  Poster presentation of **Corn management with SDI to save water resources** at 2010 Central Plains Irrigation Conference, February 23-24, Kearney NE.


Presentation of **Corn irrigation macromanagement at the seasonal boundaries – Initiating and terminating the irrigation season,** at the Monsanto Sustainability Conference, Denver February 11-13, 2009, Denver.


Lamm, F. R. 2009. Poster presentation of **Comparison of SDI and simulated LEPA sprinkler irrigation for corn** at K-State Research and Extension Annual Conference, Manhattan, Kansas, October 20, 2009.


Lamm, F. R. and D. M. O’Brien. 2009. Computer and poster presentation of **Can We Make it Work and Can We Make it Pay?** at K-State Research and Extension Annual Conference, Manhattan, Kansas, October 20, 2009.


Lamm, F.R. 2009. Discussion of SDI and tour of facilities for Dean and Associate Deans of KSU College of Agriculture, October 6, 2009 at Colby Kansas.

Lamm, F.R. 2009. Discussion of SDI and tour of facilities for Farm Bureau’s Master Program, October 9, 2009 at Colby Kansas.


Discussion of SDI research with USDA RRF Regional Project W1128, Portland, Oregon, October 22-24, 2008.

Presentation of historical aspects of KSU-NWREC and agriculture plus tour of SDI facilities to Farm Bureau Masters Tour, Colby Kansas, Oct. 8, 2008.

Tour and discussion of SDI facilities with Michael Dowgert, Netafim USA, August 20, 2008.

Tour and discussion of SDI facilities and other irrigation topics for KSU Agricultural Economics faculty, June 17, 2008.

Poster presentation of Alfalfa production with subsurface drip irrigation (SDI) at the KSU-NWREC spring field day, June 5, 2008.

Tour and discussion of SDI facilities and other irrigation topics for KSU Biological and Agricultural Engineering Department Chair, Gary Clark, May 13, 2008.

News release, Pioneer, KSU research recommends irrigating through grain filling stage, Pioneer Hi-Bred Crop Insights, April, 2008. Pioneer Hi-Bred Crop Insights, April, 2008.

News release, Safely delaying the first irrigation of corn, Pioneer Hi-Bred Crop Insights, April, 2008.


Poster presentation of Livestock Wastewater use through SDI – A Pilot Project at Central Plains Irrigation Conference, February 19-20, 2008, Greeley, Colorado.


Presentation of Progress with SDI research at Kansas State University to Victory Electrical Coop annual irrigation meeting, Dodge City, Kansas, February 8, 2008.

Poster presentation of SDI in the Great Plains to Victory Electrical Coop annual irrigation meeting, Dodge City, Kansas, February 8, 2008

Poster presentation of Livestock Wastewater use through SDI – A Pilot Project to Victory Electrical Coop annual irrigation meeting, Dodge City, Kansas, February 8, 2008

Poster presentation of Economics of SDI for Corn to Victory Electrical Coop annual irrigation meeting, Dodge City, Kansas, February 8, 2008


Presentation of Progress with SDI research at Kansas State University to Farmland Coop Employees, Sterling Colorado, February 7, 2008.

Presentation of Subsurface drip irrigation (SDI) in Kansas to key universities in India, Delhi, India, January 5, 2008.

Presentation of Subsurface drip irrigation (SDI) in Kansas, A. N.G. Ranga Agricultural University, Hyderabad, India, January 2, 2008.

Discussion of SDI research with USDA RRF Regional Project W1128, Honolulu, Hawaii, October 9-11, 2007.

SDI facilities tour and discussion for class from Sacred Heart Grade School, Colby, Kansas, October, 2007.

Presentation of historical aspects of KSU-NWREC and agriculture plus tour of SDI facilities to Farm Bureau Masters Tour, Colby Kansas, Oct. 4, 2007.


SDI facilities tour and discussion for one producer, two USDA-ARS Scientists and three KSU staff, August 29, 2007

Hosted G. Li, China Agricultural University, Beijing, China, July 12, 2007 for discussions and facility tours concerning SDI.

SDI facilities tour and irrigation discussion for Ag In the Classroom group, July 12, 2007


Poster presentation of Livestock Wastewater use through SDI – A Pilot Project at Central Plains Irrigation Conference, February 27-28, 2007, Kearney, Nebraska.


Poster presentation of Economics of SDI for Corn at Central Plains Irrigation Conference, February 27-28, 2007, Kearney, Nebraska.

Poster presentation of Software for Planning Corn Production with SDI at Central Plains Irrigation Conference, February 27-28, 2007, Kearney, Nebraska.


Discussion of SDI and other water related topics with Tom Elliot, Boston Massachusetts at Colby, Kansas, November 17, 2006.

Presentation of historical aspects of KSU-NWREC and agriculture plus tour of SDI facilities to Farm Bureau Masters Tour, Colby Kansas, Oct. 6, 2006.

Discussion with J. Bordovsky, TAMU at Plainview Texas of SDI and other water-related projects, September 6, 2006.

Discussion with T.Howell, P.Colaizzi, and S. Evett, USDA-ARS, Bushland Texas of SDI and other water-related projects, September 6, 2006.

Discussion with Nicholas Farms staff, Big Bow, Kansas about SDI progress and problems, September, 4, 2006.

Presentation of There ain't no such thing as a free supper and general discussion of SDI and other irrigation technologies to Leadership Kansas Class of 2006, Hays, Kansas, August 25, 2006.


Demonstration to U. S. Congressional Aides of COpt_SDI.xls, an MS Excel template to determine optimum planned corn area and plant population for SDI, at Manhattan, Kansas, August 17, 2006.

Discussion with Mike Bartolo, CSU, Rocky Ford, Colorado of microirrigation projects in the Ark Valley, August 9, 2006.

Tour of SDI facilities and discussion of SDI projects at NWREC, Colby Kansas with Naftali Lazarovitch, from the Ben-Gurion University of the Negev, Israel, August 7-9, 2006.

Presented SDI facilities and information as a portion of a NWREC tour for Kansas Black Farmers Assoc. and USDA-NRCS staff, Colby, Kansas, July 26, 2006.

Presentation of Current irrigation technologies and their role in efficient use of water at the Water and Future of Kansas conference, Topeka, Kansas, March 16, 2006.


Ogallala Aquifer Program written report, Comparison of LEPA and SDI for corn, sunflower and soybean, F.R. Lamm, Amarillo, Texas, March 7-9, 2006.

Ogallala Aquifer Program written report, Software to compare SDI and CP sprinkler economics, F.R. Lamm and L. Almas, Amarillo, Texas, March 7-9, 2006.

Ogallala Aquifer Program written report, Strategies for improved crop germination with SDI in Kansas and Texas, F.R. Lamm, Amarillo, Texas, March 7-9, 2006.

Discussion of SDI and other water-related topics with Kansas agency and farm-related groups, Manhattan, Kansas, March 17, 2006.

CD of SDI website distributed to participants of Central Plains Irrigation Conference, February 21-22, 2006, Colby, Kansas.

Poster presentation of **Livestock Wastewater use through SDI – A Pilot Project** at Central Plains Irrigation Conference, February 21-22, 2006, Colby, Kansas.


Participant and discussant in the Western Irrigation SDI Management and Maintenance meeting, Garden City, Kansas, February 14, 2006.

Poster presentation of **SDI in the Great Plains** at the Western Irrigation SDI Management and Maintenance meeting, Garden City, Kansas, February 14, 2006.

Poster presentation of **Livestock wastewater use through SDI – A Pilot project** at the Western Irrigation SDI Management and Maintenance meeting, Garden City, Kansas, February 14, 2006.

Poster presentation of **Optimum fertigation for corn using SDI** at the Western Irrigation SDI Management and Maintenance meeting, Garden City, Kansas, February 14, 2006.

Discussion of SDI and other water related topics with KSU COA and COE administrators, Manhattan, Kansas, February 10, 2006.

**Presentation of Progress with SDI research at Kansas State University** at annual KARA meeting, January 18, 2006, Salina, Kansas.

Discussion and tour of SDI at KSU-NWREC, Colby, Kansas with Li Guangyong, China Agricultural University, November 11, 2005

Presentation of SDI research results to USDA-RRF W1128 regional project concerning microirrigation, Phoenix, Arizona, November 2-4, 2005.

Discussion of SDI and irrigation efficiency with USDA-NRCS Kansas staff at Manhattan, Kansas, October 13, 2005.

Discussion and tour of SDI and other topics with regional Farm Bureau group at Colby, Kansas, October 6, 2005

Discussion and tour of SDI with representative of Netafim Irrigation at Colby Kansas, September 2005

Discussion of SDI and other irrigation topics with area representatives of Pioneer Hi-Bred International, August 22, 2005.

Discussion of SDI and Water Conservation research with US Congressional Aides, Hays Kansas, August 17, 2005.

Tour and discussion of SDI and other irrigation topics with scientist Graham Harris from Victoria, Australia, August 10-11, 2005.

Tour and discussion of SDI with farmer Garry Morrison from Victoria, Australia, August 7, 2005.

Discussion of SDI and other irrigation topics for Kuska family reunion, July 30, 2005.

Hosted Visiting Scientist, Gerard Arbat, University of Girona, Spain from June 29 to October 1, 2005.

Tour and discussion of SDI research with Tom Doerge, Pioneer Hi-Bred International, July 5, 2005.

Field Tour of SDI research installation at KSU-NWREC, June 22, 2005 for UAP representatives. Approximately 25 in attendance.

Poster presentation of **Minimum System Requirements with SDI** at KSU Sedgewick County SDI Field Day, Wichita, Kansas, June 1, 2005.

Poster presentation of **Improved irrigation water management with SDI** at KSU Sedgewick County SDI Field Day, Wichita, Kansas, June 1, 2005.

Poster presentation of **What is SDI?** at KSU Sedgewick County SDI Field Day, Wichita, Kansas, June 1, 2005.

Poster presentation of **SDI, Pros and Cons** at KSU Sedgewick County SDI Field Day, Wichita, Kansas, June 1, 2005.

Poster presentation of **Nutrient Management with SDI** at KSU Sedgewick County SDI Field Day, Wichita, Kansas, June 1, 2005.

Oral presentation of Ogallala Aquifer Programs that included SDI, Garden City, Kansas, March 8-10, 2005.


Ogallala Aquifer Program written report, **Effect of dripline depth on corn and sunflower**, February 2005.

Ogallala Aquifer Program written report, **Installation effects on SDI flowrates and uniformity**, February, 2005.

Ogallala Aquifer Program written report, **SDI and CP sprinkler economics**, February, 2005.


Presentation of **Design and management considerations for SDI** at SDI meeting, Sublette, Kansas, March 3, 2005.

Presentation of **SDI research for corn production in Kansas, 16 years of progress** at SDI meeting, Sublette, Kansas, March 3, 2005.

Presentation of **Center pivot sprinkler and SDI economic comparisons** at SDI meeting, Sublette, Kansas, March 3, 2005.

Poster presentation of **SDI in the Great Plains** at SDI meeting at Sublette, Kansas, March 3, 2005.

Poster presentation of **Using livestock wastewater with SDI** at SDI meeting at Sublette, Kansas, March 3, 2005.

Poster presentation of **Nitrogen fertilization for corn production using SDI** at SDI meeting at Sublette, Kansas, March 3, 2005.

Presentation of **SDI research for corn production in Kansas, 16 years of progress** at NICCA annual meeting, Kearney, Nebraska, Feb. 21, 2005.

**Economic comparison of SDI and center pivot sprinklers** at Arkansas Valley Farm and Ranch Symposium, January 6, 2005.

Oral presentation of **SDI research results** in Kansas at University of Missouri Crop Management School, Columbia, Missouri, Dec. 16-17, 2004.

Poster presentation of **SDI in the Great Plains** at University of Missouri Crop Management School, Columbia, Missouri, December 16-17, 2004.

Poster presentation of **Using livestock wastewater with SDI** at University of Missouri Crop Management School, Columbia, Missouri, December 16-17, 2004.

Presentation of SDI research results to USDA-RRF W1128 regional project concerning microirrigation, Tampa, FL, November 17-19, 2004.


Oral presentation of “**Steps to a successful SDI system**” at KSU Scandia Experimental Field, August 24, 2004.

Oral presentation of “**Minimum system requirements with SDI**” at KSU Scandia Experimental Field, August 24, 2004.

Poster presentation of “**Can we make SDI pay?**” at KSU Scandia Experimental Field, August 24, 2004.

Poster presentation of “**What is SDI?**” at KSU Scandia Experimental Field, August 24, 2004.

Poster presentation of “**Improved irrigation water management with SDI**” at KSU Scandia Experimental Field, August 24, 2004.

Discussion of SDI with Governor’s Subcabinet on Water, Manhattan, Kansas, August 23, 2004.


Oral and Poster presentation of **Comparison of SDI and simulated LEPA sprinkler irrigation for corn** at SDI Technology Field Day, at NWREC, August 10, 2004.

Poster presentation of **What is SDI?** at SDI Technology Field Day, at NWREC, August 10, 2004.

Poster presentation of **Improved irrigation water management with SDI** at SDI Technology Field Day, at NWREC, August 10, 2004.

Poster presentation of **Minimum system requirements with SDI** at SDI Technology Field Day, at NWREC, August 10, 2004.

Poster presentation of **Steps to a successful SDI system** at SDI Technology Field Day, at NWREC, August 10, 2004.

Poster presentation of **Can we make it pay?** at SDI Technology Field Day, at NWREC, August 10, 2004.

Poster presentation of **Can we make it work?** at SDI Technology Field Day, at NWREC, August 10, 2004.
Poster presentation of **Determination of the appropriate dripline flushing velocity** at SDI Technology Field Day, at NWREC, Aug. 10, 2004.

Poster presentation of **Nutrient management with SDI** at SDI Technology Field Day, at NWREC, August 10, 2004.


Poster presentation of **The Ogallala and the potential for SDI** at SDI Technology Field Day, at NWREC, August 10, 2004.

Poster presentation of **SDI, Pros and Cons** at SDI Technology Field Day, at NWREC, August 10, 2004.

Poster presentation of **Optimal plant populations for corn using SDI** with limited well capacities at SDI Technology Field Day, at NWREC, August 10, 2004.

Poster presentation of **Spacing of driplines for corn production** at SDI Technology Field Day, at NWREC, August 10, 2004.

Poster presentation of **Using SDI and LEPA sprinkler irrigation to apply swine wastewater -- A progress report** at SDI Technology Field Day, at NWREC, August 10, 2004.

Poster presentation of **K-State's permanent bed system** for SDI at SDI Technology Field Day, at NWREC, August 10, 2004.

Poster presentation of **Slope considerations for SDI** at SDI Technology Field Day, at NWREC, August 10, 2004.

Poster presentation of **Filtration for SDI systems** at SDI Technology Field Day, at NWREC, August 10, 2004.

SDI tour and discussion for Kansas Farm Appraisers Assn. at NWREC, July 15, 2004.

Discussion and tour of SDI research with Tom Doerge, July 6, 2004.

Hosted Dr. Jaume Puig, University of Girona (Spain) from May 16-September 3, 2004 to conduct SDI research on dripline flushing velocity.

Discussion with 6 Pioneer HiBred Inc. personnel about SDI and other irrigation technologies, March 19, 2004.


CD of SDI website distributed to participants of Western Irrigation Operation and Maintenance Workshop, Feb 24, 2004, Garden City, Kansas.

Poster presentation of **SDI in the Great Plains** at Western Irrigation Operation and Maintenance Workshop, Feb 24, 2004, Garden City, Kansas.

Poster presentation of **Using livestock wastewater with SDI** at Western Irrigation Operation and Maintenance Workshop, Feb 24, 2004, Garden City, Kansas.

Poster presentation of **Nitrogen fertilization for corn production using SDI** at Western Irrigation Operation and Maintenance Workshop, Feb 24, 2004, Garden City, Kansas.


Presentation of **SDI in the Great Plains region with a few glances elsewhere** at Powell Agricultural and Irrigation Technologies meeting, Powell, Wyoming, Feb. 6, 2004.
Presentation of **Design and management considerations for SDI** at Powell Agricultural and Irrigation Technologies meeting, Powell, Wyoming, Feb. 6, 2004.

Presentation of **Filtration and maintenance considerations for SDI** at Powell Agricultural and Irrigation Technologies meeting, Powell, Wyoming, Feb. 6, 2004.

Presentation of **Center pivot sprinkler and SDI economic comparisons** at Powell Agricultural and Irrigation Technologies meeting, Powell, Wyoming, Feb. 6, 2004.

CD of SDI website distributed to participants of Powell Agricultural and Irrigation Technologies meeting, Powell, Wyoming, Feb. 6, 2004.


Poster presentation of **Using livestock wastewater with SDI** at Powell Agricultural and Irrigation Technologies meeting, Powell, Wyoming, Feb. 6, 2004.

Poster presentation of **Nitrogen fertilization for corn production using SDI** at Powell Agricultural and Irrigation Technologies meeting, Powell, Wyoming, Feb. 6, 2004.

Presentation of second year’s research results for SDI Frequency study to Corn Commission, January 22, 2004. Presentation by Rob Aiken.

Presentation of **SDI in the Great Plains region with a few glances elsewhere** at Victory Electric Irrigation meeting, Dodge City, Kansas, January 22, 2004.

Poster presentation of **SDI in the Great Plains** at Victory Electric Irrigation meeting, Dodge City, Kansas, January 22, 2004.

Poster presentation of **Using livestock wastewater with SDI** at Victory Electric Irrigation meeting, Dodge City, Kansas, January 22, 2004.

Poster presentation of **Nitrogen fertilization for corn production using SDI** at Victory Electric Irrigation meeting, Dodge City, Kansas, January 22, 2004.

Presentation of **Design and management considerations for SDI** at SDI meeting, Abilene, Kansas, December 9, 2003.

Presentation of **SDI Research for corn production in Kansas, 14 years of progress** at SDI meeting, Abilene, Kansas, December 9, 2003.

Presentation of **Using beef lagoon wastewater with SDI** at SDI meeting, Abilene, Kansas, December 9, 2003.

Presentation of **Center pivot sprinkler and SDI economic comparisons** at SDI meeting, Abilene, Kansas, December 9, 2003.

Poster presentation of **SDI in the Great Plains** at SDI meeting, Abilene, Kansas, December 9, 2003.

Poster presentation of **Using livestock wastewater with SDI** at SDI meeting, Abilene, Kansas, December 9, 2003.

Poster presentation of **Nitrogen fertilization for corn production using SDI** at SDI meeting, Abilene, Kansas, December 9, 2003.

Presentation and discussion of SDI results to USDA-RRF W-128 Microirrigation Committee, Davis, California, October 22-24, 2003.


Presentation to US Congressional Aides Tour of **Improved irrigation water management with SDI**, Manhattan, Kansas, August 6, 2003.

Presentation of **SDI in the Great Plains** at the SDI and Sweet Corn Production Tour, Ulysses Kansas, July 9, 2003.


Participant and resource person for Western Irrigation SDI Operation and Maintenance meeting, Feb. 20, 2003.

CD of SDI website distributed to participants of Western Irrigation SDI Operation and Maintenance meeting, Feb. 20, 2003.

Poster presentation of *SDI in the Great Plains* at Western Irrigation Operation and Maintenance Workshop, Feb 20, 2003, Garden City, KS.

Poster presentation of *Using livestock wastewater with SDI* at Western Irrigation Operation and Maintenance Workshop, Feb 20, 2003, Garden City, Kansas.

Poster presentation of *Nitrogen fertilization for corn production using SDI* at Western Irrigation Operation and Maintenance Workshop, Feb 20, 2003, Garden City, Kansas.


Research application summary (Economically optimal corn plant population at various capacities using SDI) and Excel spreadsheet (Copt_SDI.xls) for Pioneer HiBred Intl., January, 24, 2003.

Presentation of first year’s research results for SDI Frequency study to Corn Commission, January 10, 2003.

Poster presentation of *SDI in the Great Plains* at Victory Electric Irrigation meeting, Dodge City, KS, 1-6-03.

Poster presentation of *Using livestock wastewater with SDI* at Victory Electric Irrigation meeting, Dodge City, KS, 1-6-03.

Poster presentation of *Nitrogen fertilization for corn production using SDI* at Victory Electric Irrigation meeting, Dodge City, KS, December 18, 2002.

Poster presentation of *SDI for corn production in Kansas* at SDI meeting in Belleville, Kansas, December 18, 2002.

Poster presentation of *Nitrogen fertilization for corn production using SDI* at SDI meeting in Belleville, Kansas, December 18, 2002.


Presentation of *SDI for corn production in Kansas* at SDI meeting in Wichita, Kansas, December 17, 2002.

Presentation of *Design and management considerations for SDI* at SDI meeting in Wichita, Kansas, December 17, 2002.

Poster presentation of *SDI and the Great Plains* at SDI meeting in Wichita, Kansas, December 17, 2002.

Poster presentation of *Livestock wastewater use with SDI: A pilot project* at SDI meeting in Wichita, Kansas, December 17, 2002.

Poster presentation of *Nitrogen fertilization for corn production using SDI* at SDI meeting in Wichita, Kansas, December 17, 2002.


Presentation of *SDI for corn production in Kansas* to Groundwater Conservation for S.W. Kansas, Dodge City, KS, Nov. 20, 2002.

Discussion of SDI with Valmont Industries, Kearney, NE, Nov, 6, 2002.

Discussion of SDI with Colorado crop consultant at NWREC SDI site, October 17, 2002.

Tour and discussion of SDI facilities for NRCS, two Univ of Nebraska personnel and 3 Nebraska producers, September 9, 2002.

Tour and discussion of SDI facilities for a Nebraska producer, August 21, 2002.

Tour and discussion of SDI facilities for four Colorado producers, August 13, 2002.

Tour and discussion of SDI facilities for two Univ. of Nebraska faculty, July 24, 2002.

Tour and discussion of SDI facilities for Kansas Water Authority (approximately 30 in attendance), July 10, 2002.

Tour and discussion of SDI facilities for NRCS and four producers from Colorado, July 10, 2002.

Discussion and tour of SDI research facility with engineering consultant from NE, March 23, 2002.

Poster presentation of SDI in the Great Plains at SDI meeting for producers, Courtland, KS, 3-21-02.

Poster presentation of Using livestock wastewater with SDI at SDI meeting for producers, Courtland, KS, 3-21-02.

Presentation of SDI Research for corn production for SDI at SDI meeting for producers, Courtland, KS, 3-21-02.

Presentation of Economic comparison of SDI & center pivot sprinklers for corn: Sensitivity to key factors at SDI meeting for producers, Courtland, KS, 3-21-02.

Development and posting to SDI website of Excel template to compare economics of SDI and center pivot sprinklers, 3-19-02.

Presentation of Minimum requirements for SDI systems at County agent update at KSU-SWREC, March 7, 2002.

Presentation of Economic comparison of SDI & center pivot sprinklers for corn: Sensitivity to key factors at SDI in-service for UNL and NRCS personnel, Hastings, NE, 3-20-02.

Presentation of Design and management considerations for SDI at SDI in-service for UNL and NRCS personnel, Hastings, NE, 3-20-02.

Development and posting to SDI website of Economic comparison of SDI & center pivot sprinklers for corn: Sensitivity to key factors, 3-20-02.


Presentation of Design and management considerations for SDI at SDI meeting in Hugoton, Kansas, Feb 20, 2002.

Presentation of Irrigation capacity and plant population effects on corn production at SDI meeting in Hugoton, Kansas, Feb 20, 2002.

Poster presentation of SDI and the Great Plains at SDI meeting in Hugoton, Kansas, Feb 20, 2002.

Poster presentation of Livestock wastewater use with SDI: A pilot project at SDI meeting in Hugoton, Kansas, Feb 20, 2002.


Presentation of Design and management considerations for SDI at SDI meeting in Garden City, Kansas, Feb 19, 2002.

Presentation of Irrigation capacity and plant population effects on corn production at SDI meeting in Garden City, Kansas, Feb 19, 2002.

Poster presentation of SDI and the Great Plains at SDI meeting in Garden City, Kansas, Feb 19, 2002.

Poster presentation of Livestock wastewater use with SDI: A pilot project at SDI meeting in Garden City, Kansas, Feb 19, 2002.

Presentation of Design and management considerations for SDI at SDI meeting in Colby, Kansas, Feb 18, 2002.

Presentation of Irrigation capacity and plant population effects on corn production at SDI meeting in Colby, Kansas, Feb 18, 2002.

Poster presentation of SDI and the Great Plains at SDI meeting in Colby, Kansas, Feb 18, 2002.


Poster presentation of Livestock wastewater use with SDI: A pilot project at Plains at SDI meeting in Colby, Kansas, Feb 18, 2002.

Presentation of Design and management considerations for SDI at SDI meeting in North Platte NE, Feb 12, 2002.

Presentation of Irrigation capacity and plant population effects on corn production at SDI meeting in North Platte, NE, Feb 12, 2002.

Presentation of Economic comparison of center pivot sprinklers and SDI for corn production at SDI meeting in North Platte, NE, Feb 12, 2002.

Poster presentation of SDI and the Great Plains at SDI meeting in North Platte, NE, Feb 12, 2002.

Presentation of Economic comparison of center pivot sprinklers and SDI for corn production at SW Kansas Irrigators, Association meeting, Feb 1, 2002.

Presentation of Irrigation capacity and plant population effects on corn production using SDI at Western Kansas Irrigation Workshop, Goodland, KS, January 10, 2002.


Tour of SDI facilities for group of approximately 20 Farm Bureau members from Kansas, Sept. 27, 2001.

Tour of SDI facilities for group of 20 producers from Australia, August 28, 2001.

Presentation to Kansas Congressional Aides about USDA Special Grant Water conservation--Increased efficiency in usage, August 14, 2001.


Tour of SDI facilities for KSU 4-H Wheat Show meeting, August 8, 2001. Approximately 35 in attendance.


Poster presentation of SDI Research and Extension efforts at K-State -- 12 years and counting, SDI Technology Field Day, August 7, 2001.

Poster presentation of What is subsurface drip irrigation (SDI)?, SDI Technology Field Day, August 7, 2001.


Mini-tour of SDI facilities for Ogallala Management Taskforce, July 26, 2001. 4 in attendance.


Interviewed by Carl Kistler, reporter from Furrow magazine about SDI and wastewater, June 18, 2001.


Poster presentation of **SDI in the Great Plains** at Crop Modeling Workshop, Univ. of Nebraska, Lincoln, NE, Dec. 4-7, 2000.

Poster presentation of **Economics of SDI for corn production** at Crop Modeling Workshop, Univ. of Nebraska, Lincoln, NE, Dec. 4-7, 2000.

Poster presentation of **Utilizing livestock wastewater with SDI** at Crop Modeling Workshop, Univ. of Nebraska, Lincoln, NE, Dec. 4-7, 2000.

Poster presentation of **Nitrogen fertilization for corn production** using SDI at Crop Modeling Workshop, Univ. of Nebraska, Lincoln, NE, Dec. 4-7, 2000.

Extensive 1.5 hour consultation with 3 UNL faculty in Agronomy Dept. about utilization of SDI for research, Dec 6, 2000.


Tour of NWREC SDI facilities and discussion of SDI with group from Netafim and Cascade Earth Sciences (4), Sep. 26, 2000.

Tour of NWREC SDI facilities and discussion of SDI with group from Kansas Farm bureau (13), Sep. 26, 2000.


Tour of NWREC SDI facilities and discussion of SDI with 4 faculty from University of Nebraska, Sep. 14, 2000.


Tour of NWREC SDI facilities and discussion of SDI with UNL tour group of 35 people, Aug. 26, 2000.


Tour of NWREC SDI facilities and discussion of SDI with UNL tour group led by Mark Golembolski, July 26, 2000.


Extensive phone call consultation with Dean Yonts, UNL-Scottsbluff on SDI design operation and management, May 4, 2000.

Tour and discussion of SDI facilities with Jim Phene, Netafim Irrigation, April 12, 2000.

Tour of NWREC SDI facilities and discussion of SDI with 2 faculty from Colorado State University, Apr. 3, 2000.

Tour of NWREC SDI facilities for Gerard Kluitenberg, Mar. 21, 2000.

Developed MiBook website to manage and coordinate revision of book Microirrigation for crop production, design operation and management, 2000.


Poster presentation of Economics of SDI for corn production at county meeting, Pratt, KS, Jan. 20, 2000.


Tour of NWREC SDI facilities for Toro-Ag representatives (2), Dec. 1, 1999.


KS Legislative Aides Tour, 40 in attendance, Midwest Feeders, Ingalls, KS, Oct. 27, 1999.


Presentation of Research results with corn and SDI at Irrigation County Agent Update, Garden City, KS, Nov. 10, 1998.

Presentation of Design and management considerations for subsurface drip irrigation systems at Irrigation County Agent Update, Garden City, KS, Nov. 10, 1998.


Presentation of Research with SDI and corn at the USDA RRF W-128 regional project meeting, San Diego, CA, Oct. 29-31, 1998.

Presentation of Research with SDI and corn to legislative aides, Manhattan, KS, Aug. 1998.


Discussion of SDI and field tour of NWREC SDI research site for Nelson Irrigation, Sept. 21, 1998.


Invited speaker for written presentation of SDI and the Great Plains, at the 60th annual Bushland Field Day, USDA-ARS, Bushland, TX, Aug. 12, 1998.

Tour of NWREC SDI research site, Colby, KS and SDI wastewater site, Ingalls, KS for Netafim Irrigation, June 1998.

Tour of NWREC SDI research site for Nelson Irrigation, May 1998.


Presentation of Livestock wastewater utilization with SDI: A pilot project, for the K-State President's Tour at Ingalls, KS, June 30, 1998.

Two radio interviews by Brandon Jaap, KFRM 550 AM on SDI, March 31, 1998.


Presentation of KSU's SDI research on corn to the Western Regional RRF Project W-128, Nov. 6-7, 1997, Fresno, CA.


Numerous e-mail requests for SDI research information, apparently in response to participation in Trickle-L, an e-mail discussion group on microirrigation, 1997-2003.

Guided tour of subsurface drip irrigation facilities and discussion of research for Colby Middle School Advanced Science Class, Oct. 16, 1997.

Guided tour of subsurface drip irrigation facilities and discussion of research for Lindsay and Helen Ward, visitors from Australia, Oct. 6, 1997.


Guided tour of subsurface drip irrigation facilities and discussion of research for Kansas Water Office Director, Aug. 6, 1997.
Guided tour of subsurface drip irrigation facilities and discussion of research for University of Nebraska faculty and staff, Feb. 5, 1997.

Presentation of Subsurface drip irrigation research for corn at Central Nebraska Irrigation Short Course, Feb. 15, 1996, Holdrege, NE.

Presentation of Subsurface drip irrigation research for corn at Northwest Kansas Corn Growers meeting, Jan. 30, 1996, Colby, KS.

Presentation of KSU's SDI research on corn to the Western Regional RRF Project W-128, Oct. 16-17, 1995, Lansing, MI.

Presentation of Drip irrigation in row crop farming at the High Plains Irrigation Conference and Trade Show, Amarillo, TX, Jan. 5, 1995.


Guided tour of subsurface drip irrigation facilities and discussion of research for the Kansas Production Credit Bankers Council, June 1995.

Guided tour of subsurface drip irrigation facilities and discussion of research for a group of crop nutrition scientists, Aug. 1995.

Guided tour of subsurface drip irrigation facilities and discussion of research for the Kansas Section ASAE, Oct. 1995.

Presentation of KSU's SDI research on corn to the Western Regional RRF Project W-128, Oct. 25-27, 1994, Kona, HI.

Guided tour of subsurface drip irrigation facilities and discussion of research for the Kansas water agencies, Aug. 1994.

Guided tour of subsurface drip irrigation facilities and discussion of research for the Kansas Department of Environment, Aug. 1994.


Presentation of KSU's SDI research on corn to the Western Regional RRF Project W-128, Oct. 28-30, 1993, San Diego, CA.

Presentation of drip irrigation research at the 1993 KSU NWREC Fall Field Day, Aug. 25, 1993.

Guided tour of subsurface drip irrigation facilities and discussion of research for the Four States Irrigation Council, Aug. 18, 1993.

Presentation of KSU's SDI research on corn to the Western Regional RRF Project W-128, April 28-30, 1993, Bradenton, FL.

Presentation of Using drip irrigation for a nontraditional crop --

Presentation of Drip irrigation studies at Colby to Kansas Agriculture Rural Leadership (KARL) groups, Colby, KS, Feb. 21, 1992 (1st class) and Jan. 15, 1992 (2nd class).

Presentation of Drip irrigation studies at Colby to NRCS staff and farmers from Nebraska, Dec. 6, 1992.

Presentation of Managing subsurface drip irrigation systems for corn at the 1992 KSU SWREC Fall Field Day.

Presentation of Drip irrigated corn studies to the Kansas Water Office staff, Manhattan, KS, April 29, 1992.

Poster entitled Drip irrigation for corn production--the research approach in western Kansas at the Annual Conference of KSU CES-AES, Manhattan, KS, April 1992.


Presentation of SDI at the 1991 KSU NWREC Fall Field Day.


Poster entitled Water requirements of drip-irrigated corn at the Central Plains Irrigation Short Course, North Platte, NE, Feb. 5-6, 1991.

Poster entitled Preliminary highlights from a dripline spacing study at the Central Plains Irrigation Short Course, North Platte, NE, Feb. 5-6, 1991.


Presentation of SDI at Colby, KS to the 1990 Nebraska Irrigation Tour sponsored by the University of Nebraska, Aug. 6, 1990.

Poster entitled Design and installation of a drip irrigation system for research purposes at the KAES-Cooperative Extension Annual Conference, Manhattan, KS, Oct. 1989

Presentation of SDI research at 1989 Fall Field Day of the KSU Northwest Research-Extension Center.