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Appendix- Water for Food conference proceedings

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Paul, Prem S.; Norby, Monica; Klucas, Gillian; Washburn, Ashley; Banset, Elizabeth; and Miller, Vicki, "Appendix- Water for Food conference proceedings" (2010). *Office of Research and Economic Development--Publications*. 42.

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Appendix





POSTER COMPETITION,
CONFERENCE PARTICIPANTS
AND PHOTOS

Poster Competition

The 2010 Water for Food Conference included a juried poster competition. Fifty-seven posters were entered in three key categories that reflected the major conference themes and an “Other” category for related topics. University of

Nebraska–Lincoln (UNL) faculty members and graduate students and Water for Food advisory committee members served as jurors. The first place poster presenter in each category received a \$250 prize.

Technologies and Advances in Water Management

Jurors:

Derrel Martin, Richard Sincovec, Deepti Joshi and Ron Yoder, UNL

First place:

Agnelo Silva, UNL

Wireless underground sensor networks for autonomous water management

Outstanding merit:

Joon Kim, Yonsei University, Seoul, Korea

Partitioning of catchment water budget and its implication for ecosystem production

Jennifer Rees, Southeast Research and Extension Center, UNL, Clay Center, Neb.

The Nebraska Agricultural Water Management Demonstration Network: Integrating research and extension

Other presenters:

James Cannia, Wyoming Geologic Survey, Conservation and Survey Division, North Platte Natural Resources District, Department of Natural Resources and the U.S. Geological Survey, Mitchell, Neb.

Heliborne electromagnetic surveys to be used for aquifer identification and quantification

Greg Cutrell, UNL

Analysis of the energy and water balance of a temperate wetland and the response to changes in climate and vegetation

Dean Eisenhauer, UNL

Soil hydrology of no-till, center-pivot-irrigated cropland

Gary Hergert, Panhandle Research and Extension Center, UNL, Scottsbluff, Neb.

Managing with less water in western Nebraska: The Pumpkin Creek Watershed Demonstration and supporting crop response data on limited irrigation

Christina Hoffman, UNL

Geospatial mapping and analysis of water availability, demand and use within the Mara River Basin

Baburao Kamble, UNL

Developing an integrated hydrological information system for Nebraska

Robert N. Klein, West Central Research and Extension Center, UNL, North Platte, Neb.

Skip-row corn in southwest Nebraska to improve drought tolerance of rainfed corn

Jake LaRue, Valmont Irrigation Inc., Omaha, Neb.

Mechanized irrigation of rice: Improving water conservation and quality

Xu Li, UNL

Developing water treatment systems for small communities

Chengpeng Lu, UNL

Parameter estimation for a Karst aquifer with unknown thickness using genetic algorithm and improved search bounds

Karen O'Connor, Olsson Associates, Lincoln, Neb.

Using GIS to manage glacial aquifers of eastern Nebraska

Blake Onken, Lindsay Corp., Omaha, Neb.

Utilizing mechanized sprinkler systems to reduce water use in rice production

Otto Szolosi, Irrig8Right Pty Ltd.,

Narre Warren, Victoria, Australia

Water recycling as an alternative water source

Tsegaye Tadesse, National Drought Mitigation Center, UNL

Scenario-based vegetation outlook (S-VegOut): Predicting general vegetation condition using different scenarios over the central U.S.

Jessica Torrion, UNL

SoyWater: A Web-based irrigation decision aid for soybean producers in Nebraska

Tom Trout, U.S. Department of Agriculture-Agricultural Research Service Water Management Research Unit, Fort Collins, Colo.

Water productivity for high plains crops

Charles Wortmann, UNL

Improving sorghum production in water deficit production environments of eastern Africa

Jinsheng You, UNL

Interactions among climate forcing, soil water and groundwater through monitoring: Concept project

Human Dimensions of Water for Food Production

Jurors:

Karina Schoengold, Raymond Supalla and Chris Thompson, UNL

First place:

Federico Trindade, UNL

Is there a slowdown in agricultural productivity growth in South America?

Other presenters:

Craig Allen, U.S. Geological Survey Nebraska Cooperative Fish and Wildlife Research Unit and UNL

Resilience and adaptive governance in stressed watersheds

Sanjay Chakane, University of Pune, Maharashtra, India

Continuous contour trenching tool for watershed management

Ayako Ebata, UNL

Agricultural productivity growth and irrigation in Central America and the Caribbean

Tonya Haigh, National Drought Mitigation Center, UNL

Farmer perceptions of conservation and sustainable agriculture practices and drought risk reduction in Nebraska

Poster Competition

Joseph Hamm, UNL

Exploring separable components of institutional confidence

Francine Rochford, La Trobe University, Australia

“I don't know where our water is going”

Emile Salame, UNL

Agricultural productivity in Lebanon and its surrounding countries

Steven Shultz, University of Nebraska at Omaha

Stakeholder willingness to pay for watershed restoration in Bolivia, South America

Otto Szolosi, Irrig8right Pty Ltd, Narre Warren, Victoria, Australia

Irrigation industry reform: Issues, impediments and recommendations

Nicole Wall, National Drought Mitigation Center, UNL

The National Drought Mitigation Center (NDMC): Science and expertise that serve agriculture on a national and international scale

Wayne Woldt, UNL

The WATER machine: Engagement of stakeholders in water education

Donna Woudenberg, National Drought Mitigation Center, UNL

Water for food: Gender and cultural considerations

Gary Zoubek, Southeast Research and Extension Center, UNL, York, Neb.

Irrigation and energy conservation field days and workshop: University of Nebraska–Lincoln Extension, Nebraska Corn Growers and Nebraska Corn Board working together

Genetics and Physiology of Crop Water

Jurors:

Mark Lagrimini and
Roberto de la Rosa Santamaria, UNL

First place:

Ismail Dweikat, UNL
Seedlings cold tolerant sorghum serve as drought avoidance

Outstanding merit:

Saadia Bihmidine, UNL
Improving crop drought tolerance through biotechnology

Walter Suza, Arkansas State University, Jonesboro, Ark.

Exploring the role of sterols in plant response to drought stress

Other presenters:

Patricio Grassini, UNL
Farming near yield potential and resource use efficiency ceilings: A case study of irrigated maize in Nebraska

John Lindquist, UNL

Water use efficiency of maize and velvetleaf (*Abutilon theophrasti*)

Tejinder Mall, UNL

Improving end-use functionality of grain sorghum

Joseph Msanne, UNL

Characterization of the abiotic stress-responsive *Arabidopsis thaliana* RD29A and RD29B genes and evaluation of transgenes

Justin Van Wart, UNL

Establishing yield potential in drastically different precipitation regimes: How many years of weather data are required to estimate crop yield potential?

Other

Jurors:

Peter Rogers, Harvard University;

Judith C.N. Lungu, University of Zambia;

James Goeke, UNL and U.S. Geological Survey;

Arthur Zygielbaum, UNL

First place:

Yi Peng, UNL

Remote sensing of crop primary productivity:
From close range to satellite observations

Outstanding merit:

John T. Li, UNL

Removing natural estrogens from drinking water using a biologically active carbon (BAC) reactor

Jason Vitek, UNL

Chlorella virus distribution in Nebraska rivers

**Jerry Kenny, Headwaters Corporation,
Kearney, Neb.**

Platte River Recovery Implementation Program

Other presenters:

Shannon Bartelt-Hunt, UNL

Occurrence of steroid hormones and antibiotics in groundwater impacted by livestock waste control facilities

John Gates, UNL

Sustaining mega-aquifers for food production in complex agricultural landscapes: Groundwater replenishment in the American High Plains and North China Plain

Rachael Herpel, UNL

University of Nebraska–Lincoln Water Center

Tim Hiller, UNL

Endangered species recovery and water management on the Missouri River:
Implementing an adaptive management approach

Matthew Kerrigan, UNL

Increasing demand for drinking water research

Aziza Kibonge, UNL

Agricultural productivity and water availability

Jamie McFadden, UNL

Predicting management implications on the Lower Platte River, Nebraska, for interior least tern and piping plover: A practical application of a quantitative model

Kristine Nemec, UNL

Grassland diversity and ecosystem services within an agroecosystem

Camilla Rice, UNL

Demonstration art in a depleting water supply

Drew Tyre, UNL

The pallid sturgeon habitat assessment and monitoring program: 2007-2009

Conference Participants

Abbreviation Key:

CSIRO: Australian Commonwealth Scientific and Industrial Research Organisation

UNL: University of Nebraska–Lincoln

USDA-ARS: U.S. Department of Agriculture-Agricultural Research Service

USGS: U.S. Geological Survey

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Water for Food Senior Advisory Council

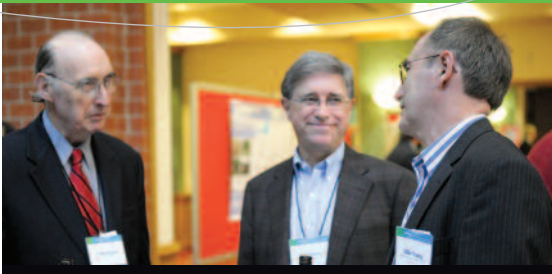


Kenneth Morrison, James B. Milliken and James McClurg

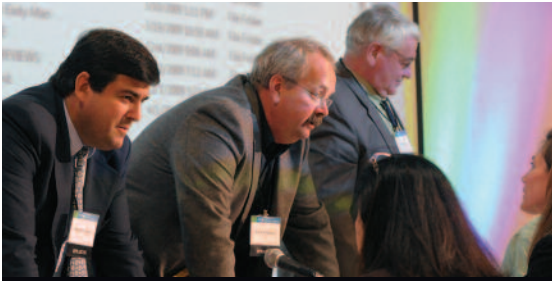
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Marcos Folegatti and Roberto Tuberosa



Arthur Zygielbaum, James Goeke and Kristine Nemece



Pedro Sanchez and Randy Pryor



Conference recognition banquet



Richard Sincovec and Mohamed Dahab



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