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Appendix- Water for Food conference proceedings

Prem S. Paul *University of Nebraska at Lincoln*, ppaul2@unl.edu

Monica Norby *University of Nebraska-Lincoln*, mnorby1@unl.edu

Gillian Klucas University of Nebraska-Lincoln

Ashley Washburn University of Nebraska-Lincoln, awashburn2@unl.edu

Elizabeth Banset *University of Nebraska-Lincoln*, ebanset1@unl.edu

See next page for additional authors

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Authors Prem S. Paul, Monica Norby, Gillian Klucas, Ashley Washburn, Elizabeth Banset, and Vicki Miller			
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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, $\ensuremath{U\!N\!L}$

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:

 $\begin{tabular}{ll} \bf Mark\ Lagrimini\ and \\ \bf Roberto\ de\ la\ Rosa\ Santamaria,\ UNL \\ \end{tabular}$

First place:

 $\begin{tabular}{ll} \textbf{Ismail Dweikat}, \ UNL \\ \textbf{Seedlings cold tolerant sorghum serve} \\ \end{tabular}$

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

Arun Adsool	Paul Baker	Scot Blehm	James Cannia
University of Pune, India	Duke University	Office of U.S. Rep. Jeff Fortenberry	USGS
Nick Aliano	Elizabeth Banset	<i>y y</i>	Sen. Tom Carlson
NUtech Ventures	UNL	Giulio Boccaletti McKinsey & Company	Nebraska Legislature
Craig Allen	Jim Barr		Doug Carr
UNL	York, Neb.	Vincent Bralts <i>Purdue University</i>	Snitily Carr
Mohammad Zaman Amini	Mogens Bay		Ken Cassman
Purdue University	Valmont Industries Inc.	Joel Brehm UNL	UNL
John Anderson	Lorrie Benson		Clarey Castner
UNL	UNL	John Briscoe	University of Nebraska
		Harvard University	Foundation
Ryan Anderson	Charlyne Berens		
UNL	UNL	Kelly Brunkhorst	Katie Cervantes
		Nebraska Corn Board	UNL
Tausha Ward Armbruster	Richard Berkland		
UNL	Valmont Global	Ann Bruntz	Sanjay Chakane
	Irrigation	University of Nebraska	University of Pune, India
Mark Askren	- 1	Foundation	
UNL	Bob Bettger		Joana Chan
Gary Atlin	Bettger Farms	Eric Buchanan University of Nebraska	UNL
International Maize	Saadia Bihmidine	Foundation	Namas Chandra
and Wheat	UNL		UNL
Improvement Center		Mark Burbach	
	William Binder	UNL	Xun-Hong Chen
Sen. Bill Avery	Rabobank		UNL
Nebraska Legislature		Seth Burkey	
	Paul Black	UNL	Cheng Cheng
Tala Awada	UNL		UNL
UNL		Chuck Burr	
	Ann Bleed	UNL	Fred Choobineh
P. Stephen Baenziger	Ann Bleed and		UNL
UNL	Associates Inc.		

Tim Clare	Al Doerksen	Zhenping Feng	Mary Garbacz
University of Nebraska	International	Xi'an Jiaotong	UNL
Board of Regents	Development Enterprises	University, China	_
_	_		Jane Garrity
Jason Clay	Wayne Drummond	Randolph Ferlic	NUtech Ventures
World Wildlife Fund	UNL	University of Nebraska	
		Board of Regents	John Gates
Ben Cohoon	David Dunigan		UNL
Arbor Day Foundation	UNL	Peg Filliez	
		UNL	Eugene Glock
Alan Corr	Bruce Dvorak		Cedar Bell Farms
UNL	UNL	Rolando Flores	
		UNL	Steve Goddard
Richard Cuenca	Ismail Dweikat		UNL
National Science	UNL	Brandi Flyr	
Foundation		Nebraska Department	Brad Godwin
	Ayako Ebata	of Natural Resources	Monsanto Company
Greg Cutrell	UNL		
UNL		Marcos Folegatti	James Goeke
	Mark Edge	University of São Paulo,	UNL
Mohamed Dahab	Monsanto Company	Brazil	
UNL			Tim Goldhammer
	Valerie Egger	Bill Foster	Reinke Manufacturing
Tim Daugherty	UNL	Teledyne ISCO	Company Inc.
Robert B. Daugherty			
Charitable Foundation	Dean Eisenhauer	Robert T. Fraley	Patricio Grassini
	UNL	Monsanto Company	UNL
Roberto de la Rosa			
Santamaria	Philip Erdman	Sheri Fritz	Mari Greer
UNL	Office of U.S. Sen.	UNL	UNL
	Mike Johanns		
Gary DeLong		Susan Fritz	Jane Griffin
Novecta	Kimberly Andrews Espy	UNL	The Groundwater
	UNL		Foundation
Jitender Deogun		Lilyan Fulginiti	
UNL	Steven R. Evett	UNL	Mark Gustafson
	USDA-ARS		UNL
Elbert Dickey		Carolyn Fuller	
UNL	Thomas Farrell	Van Scoyoc Associates	Tonya Haigh
	University of Nebraska		UNL
Ya Ding	7 1	Charles Fulmer	
UNL	Song Feng	Teledyne ISCO	Joseph Hamm
	UNL	.,	UNL
Michael K. Doane		Duane Gangwish	
Monsanto Company		Nebraska Cattlemen	
		Jo . W. C.	

Conference Participants

Munir Hanjra International Centre of University of Nebraska UNI	Brett Hampton UNL	Christina Hoffman UNL	Glenn Johnson <i>Lower Platte South</i>	Cody Knutson UNL
Munir Hanjra Richard Hoffmann University of Nebraska UNI. Water for Food Security Mark Hoistad Farm Foundation, NFP Obane Kristensen Chief Ethanol Fuels In Chower Platte North Natural Resources Polly Huang UNI. Mary Harding Ken Hubbard UNI. District Valmont Industries Inc. Mary Harding Ken Hubbard UNI. End Harvey Welley Bean UNI. Sayed Ziauddin Hashami Purdue University Fried University Fric Hunt Purdue University Wellawn UNI. Sayed Ziauddin Hashami Purdue University UNI. Mary Harding Ken Hubbard UNI. Eric Hunt Purdue University Meg Lauerman UNI. Sayed Ziauddin Hashami Purdue University UNI. Manjit Kaur UNI. Manjit Kaur UNI. Manjit Kaur UNI. Manjit Kaur UNIL Manjit Kaur UNIL Minh Le Quang Vietnam National University, Vietnam National University, Vietnam National University of Nebraska UNI. Elvis Heinrichs Ayse Irmak UNIL Eddie Jacobs UNIL Mary Hene Eddie Jacobs UNIL Gary Hergert Eddie Jacobs UNIL Monsanto Company Joon Kim Equipment Nachael Herpel Dale Jacobson Yosei University, Korea UNIL Nanette Hessee Nebraska Legislature Clint Johannes Lower Platte North Natural Resources Nebraska Legislature Clint Johannes Lower Platte North Natural Resources Wyle Hoagland Carolyn Johnsen UNIL WNL WNL WNL Sheldon Jones UNIL Frank Kwapnioski Frank Kwapnioski H2Options Engineerin UNIL Mark Lagrimini UNIL Mark Lagrimini UNIL Mark Lagrimini UNIL Mark Lagrimini UNIL Minh Le Quang Vietnam National UNIL UNIL Manjit Kaur UNIL Minh Le Quang Vietnam National University, Vietnam Melissa Hity Natural Resources Nebraska Legislature Will Matthew Kerrigan UNIL Vone Yosei University, Korea UNIL Vone University, Korea UNIL John Lindquist Gillian Klucas UNIL VIL VIL VIL VIL VIL VIL VIL	UNL	UNL		ONL
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Purdue University David Iaquinta UNL Minh Le Quang Vietnam National UNL University Jerry Kenny Platte River Recovery Gary Hein UNL UNL Matthew Kerrigan Elvis Heinrichs UNL UNL UNL Eddie Jacobs UNL Monsanto Company Rachael Herpel UNL Rachael Herpel UNL Jacobson Satchell Consultants Nebraska Legislature Nebraska Legislature Cilint Johannes Lower Platte North Melissa Hilty Nebraska Legislature Oavid Iaquinta UNL Minh Le Quang Vietnam National University, Vietnam Valia University, Korea John T. Li Consultants Kristen Kinnan UNL Vuli Robert N. Klein UNL Nebraska Legislature Gillian Klucas UNL Kyle Hoagland Carolyn Johnsen UNL Vietnam National Vietnam Asica Salan	Saved Ziauddin Hashami		1 mane emerge	_
Michael Hayes Nebraska Wesleyan UNL University Jerry Kenny Platte River Recovery Gary Hein UNL	•	0112	Maniit Kaur	CILL
Michael Hayes		David laquinta	-	Minh Le Quang
UNL University Platte River Recovery Platte River Recovery Gary Hein UNL UNL UNL Elvis Heinrichs UNL UNL UNL Eddie Jacobs UNL Monsanto Company UNL Bachael Herpel UNL Jacobson Satchell Consultants Nanette Hessee Nebraska Legislature Nebraska Legislature Nebraska Legislature UNL UNL UNL UNL Jerry Kenny Platte River Recovery Implementation Program Melissa Lee University, Vietnam Platte River Recovery Matthew Kerrigan UNL Haeok Lee Vonsei University, Kore UNL Debra Leigh Leigh Environmental Leigh Environmental Faquipment Vonsei University, Korea UNL Kristen Kinnan UNL Kristen Kinnan UNL WUNL Nebraska Legislature Clint Johannes Lower Platte North Robert N. Klein UNL Melissa Hilty Natural Resources UNL Nebraska Legislature District Gillian Klucas UNL Kyle Hoagland UNL Pete Lipins	Michael Haves	•	CILE	_
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Elvis Heinrichs Ayse Irmak UNL Haeok Lee UNL UNL Aziza Kibonge Gary Hergert Eddie Jacobs UNL Debra Leigh UNL Monsanto Company Joon Kim Equipment Rachael Herpel Dale Jacobson Yonsei University, Korea UNL Jacobson Satchell John T. Li Consultants Kristen Kinnan UNL Nanette Hessee UNL Nebraska Legislature Clint Johannes Xu Li Lower Platte North Robert N. Klein UNL Melissa Hilty Natural Resources UNL Nebraska Legislature District Gillian Klucas UNL Kyle Hoagland Carolyn Johnsen UNL Kyle Hoagland Carolyn Johnsen UNL UNL Haeok Lee Yonsei University, Korea UNL Kyle Hoagland Carolyn Johnsen UNL VNL Pete Lipins	•	UNL		University of Nebraska
			Matthew Kerrigan	,
UNL Gary Hergert UNL Monsanto Company Bachael Herpel UNL Jacobson UNL Jacobson Satchell Consultants Nebraska Legislature Lower Platte North Nebraska Legislature District Gillian Klucas UNL Vonsei University, Korea UNL Yonsei University, Korea UNL Leigh Environmental Leigh Environmental Leigh Environmental Leigh Environmental Equipment Kristen Kinnan UNL VNL Xu Li UNL Nebraska Legislature UNL Gillian Klucas UNL Kyle Hoagland UNL Vete Lipins	Elvis Heinrichs	Ayse Irmak		Haeok Lee
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UNL Monsanto Company Rachael Herpel Dale Jacobson Yonsei University, Korea UNL Jacobson Satchell Consultants Kristen Kinnan UNL Nanette Hessee UNL Nebraska Legislature Clint Johannes Xu Li Lower Platte North Robert N. Klein UNL Melissa Hilty Natural Resources UNL Nebraska Legislature District Gillian Klucas UNL Kyle Hoagland Carolyn Johnsen UNL UNL Pete Lipins	Gary Hergert	Eddie Jacobs	_	Debra Leigh
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	-	District		John Lindquist
UNL UNL Pete Lipins	Ü		Gillian Klucas	
UNL UNL Pete Lipins	Kyle Hoagland	Carolyn Johnsen	UNL	
	_			Pete Lipins
University of Nebraska				University of Nebraska

Joel Lipsitch	Don McCabe	Kenneth Morrison	Vikas Padhye
John Deere Water	Nebraska Farmer Magazine	Morrison Enterprises	Teledyne ISCO
William S. (Will) Logan	0	Maureen Moseman	Donald Pan
ICIWaRM	Terry McClain	UNL	UNL
	Valmont Industries Inc.		
Chris Lohry		Neil Moseman	U.N. Panjiar
UNL	Jim McClurg	Nebraska Energy Office	Ministry of Water
	University of Nebraska		Resources, India
Katherine Lombardo	Board of Regents	Joseph Msanne	
Bill & Melinda Gates		UNL	Jason Parker
Foundation	Jamie McFadden		Lindsay Corporation
	UNL	Darrell Nelson	
David Lou		UNL	Martin Pasman
UNL	Matt McNair		IRRI Management,
	University of Nebraska	W. Don Nelson	Argentina
Chengpeng Lu	Foundation	Prairie Fire Newspaper	
UNL			Prem S. Paul
	Robert Meaney	Kristine Nemec	UNL
Judith C.N. Lungu	Valmont Industries Inc.	UNL	
University of Zambia			Roric R. Paulman
	Tewodros Mesfin-Abebe	Monica Norby	Paulman Farms
Sally Mackenzie	Ethiopian Institute	UNL	
UNL	of Agricultural Research		Cole Pavlina
		Elaine Nowick	Purdue University
Aaron Madison	Sarah Michaels	UNL	
Madison Farms	UNL		Julie Pell
		Karen O'Connor	Court Reporter
Tejinder Mall	Vicki Miller	Olsson Associates	
UNL	UNL		Shiqi Peng
_		Keith Olsen	National Agro-Technical
Martha Mamo	James B. Milliken	Nebraska Farm Bureau	Extension and Service
UNL	University of Nebraska		Centre, China
		Blake Onken	.45
Derrel Martin	John Miyoshi	Lindsay Corp.	Yi Peng
UNL	Lower Platte North		UNL
	Natural Resources	Tom Osborne	
Marty Matlock	District	UNL	Harvey Perlman
University of Arkansas	Alon Months	Carramin Ora	UNL
Chandles Me	Alan Moeller	Gengxin Ou	Dishaud Dourin
Chandler Mazour	UNL	UNL	Richard Perrin UNL
Monsanto	Dovid Molden	John Owens	UNL
Water Utilization	David Molden International Water	John Owens	Elijoh Dhivi
Learning Center		UNL	Elijah Phiri
	Management Institute		University of Zambia

Conference Participants

9	Susan Poser	Ronald Rose	Anna Shavers	Jim Steadman
l	UNL	Nebraska Public	UNL	UNL
		Power District		
ŀ	Krishna C. Prasad		Donna Shear	David Stenberg
l	UNESCO-IHE	Barry Ruffalo	UNL	UNL
		Lindsay Corporation		
l	Linda Ray Pratt		Katharine Shiffler	Cecil Steward
l	University of Nebraska	Emile Salame	UNL	Joslyn Institute for
		UNL		Sustainable Communities
ľ	Mahesh Pun		John (Jack) F. Shroder	
1	Nebraska Department	Pedro Sanchez	University of Nebraska	Peter Stewart
(of Natural Resources	Columbia University	at Omaha	UNL
		Earth Institute		
J	Jeff Raikes		Martha Shulski	Gary Stone
1	Bill & Melinda Gates	Tim Savage	UNL	UNL
1	Foundation	UNL		
			Michael Siedschlag	Dennis Strayer
١	Wajira Ratnayake	James Schepers	HDR Engineering Inc.	Dennis Strayer
l	UNL	USDA-ARS		& Associates
		UNL	Agnelo Silva	
J	Jennifer Rees		UNL	Raymond Supalla
l	UNL	Sen. Ken Schilz		UNL
		Nebraska Legislature	Richard Sincovec	
J	Jay Rempe		UNL	Matt Sutton-Vermeulen
1	Nebraska Farm Bureau	Jim Schneider		Unison
		UNL	Sharon Skipton	
9	Steven Ress		UNL	Andrew Suyker
l	UNL	Karina Schoengold		UNL
		UNL	Jason Skold	
(Camilla Rice		The Nature Conservancy	Walter Suza
l	UNL	Doris Schuessler		Arkansas Biosciences
		Court Reporter	Terence Smyre	Institute
F	Richard Richards		UNL	
(CSIRO	Anthony Schutz		Corrie Svehla
		UNL	Gregory Snow	UNL
L	Larry Rilett		UNL	
l	UNL	John Schwietz		Robert Swanson
		Valmont Industries Inc.	James Specht	USGS
F	Francine Rochford		UNL	
1	La Trobe University,	Sandy Scofield		Otto Szolosi
1	Australia	UNL	Jesse Starita	Irrig8right Pty Ltd.,
			KZUM 89.3 FM	Australia
	Peter Rogers	Tri Setiyono		
1	Harvard University	UNL	Paul Staswick	Tsegaye Tadesse
			UNL	UNL

Farzad Taheripour Nathan Utt **Bob Whitehouse** Sandi Zellmer Purdue University Purdue University University of Nebraska UNL Board of Regents Jim Van Etten Gary Zoubek **Zhenghong Tang** UNI. UNI. Don Wilhite UNI. UNL **Chris Thompson** Justin Van Wart Arthur Zygielbaum UNL UNI. Dayle Williamson UNL Office of U.S. Sen. Ben Nelson Larry Tieszen Deborah Van Matre USGS Office of U.S. Rep. Adrian Smith **Rick Wilson** USGS Ted Tietjen Republican River **Greg Venburg** Restoration Partners Valent BioSciences Wayne Woldt UNL Corporation Jessica Torrion UNL Shashi Verma **Charles Wortmann** UNL UNL Federico Trindade UNI. Andrew Vermouth Donna Woudenberg International UNL Tom Trout **Development Enterprises** USDA-ARS Rick Wozniak Jason Vitek Lower Elkhorn Natural Dara Troutman UNI. Resources District University of Nebraska M. Can Vuran Ron Yoder Nguyen Hieu Trung UNI. UNI. Can Tho University, Vietnam Harkamal Walia John Yohe UNL UNL Roberto Tuberosa University of Bologna, Nicole Wall Jinsheng You Italy UNL UNL Drew Tyre Steven Waller Mike Young UNL UNI. Adelaide University, Australia Natalie Umphlett Ashley Washburn UNI. UNLMike Zeleny UNL

Karen Underwood

UNL

Ellen Weissinger

UNL

Photos



Future home of the Water for Food Institute



David Molden and Don Wilhite



Michael K. Doane and Katherine Lombardo



Judith C.N. Lungu, Elijah Phiri and Richard Berkland



Alan Moeller, Mark Gustafson, Rolando Flores and Elbert Dickey



John Gates



Randolph Ferlic

Water for Food Senior Advisory Council



Kenneth Morrison, James B. Milliken and James McClurg

Photos



Krishna C. Prasad



Kenneth Morrison and Harvey Perlman



Peter Rogers, Robert Meaney and Mike Young



Martin Pasman, Roric R. Paulman and Keith Olsen



Susan Fritz



Jeff Raikes, Mogens Bay and Tim Daugherty



Kenneth Morrison, Sen. Tom Carlson and Tom Osborne



Joel Sartore and Prem S. Paul



Blake Onken and Michael Hayes

Photos



Jason Clay and Michael K. Doane



Arthur Zygielbaum, James Goeke and Kristine Nemec



Marcos Folegatti and Roberto Tuberosa



Pedro Sanchez and Randy Pryor



Conference recognition banquet



Richard Sincovec and Mohamed Dahab



Thomas Farrell, Nguyen Hieu Trung and Carolyn Fuller



Larry Tieszen, Robert Swanson and W. Don Nelson



John Anderson and John Briscoe



Munir Hanjra and U.N. Panjiar

