The World Food Prize
Laureate Award Ceremony

IOWA STATE CAPITOL  •  DES MOINES, IOWA
OCTOBER 18, 2007
On behalf of our chairman John Ruan III and our Council of Advisors, welcome to the 2007 World Food Prize Laureate Award Ceremony and what we believe is “The Most Significant Observance of World Food Day Anywhere Around the Globe.”

The Iowa State Capitol is once again the setting for the presentation of The World Food Prize, awarded for “Nobel-like” achievements in increasing the quality, quantity and availability of food in the world. We are most grateful that the Iowa Legislature has granted permission for our Laureate Award Ceremony to take place in this magnificent setting, and we are very pleased that Iowa Governor Chet Culver will preside at this ceremony.

It is of particular significance that, as the 2007 World Food Prize is presented, there is assembled in this chamber more lifesaving achievement than at any other place around the globe. Representatives have come from more than 60 countries, including nine previous laureates, to welcome Dr. Philip Nelson into the pantheon of World Food Prize Laureates.

In addition to this ceremony, The World Food Prize is celebrating this occasion through:

- The Dr. Norman E. Borlaug International Symposium, also known as the “Borlaug Dialogue,” on the subject of “Biofuels and Biofood: Global Challenges of Emerging Technologies;”
- Our Youth Institute and Borlaug-Ruan Internships, which will have over 170 high school students and teachers exchanging views with Dr. Borlaug and our Youth Institute “faculty”;
- Honoring John Ruan, Sr. as the Ruan Company celebrates its 75th Anniversary; and
- The inaugural Iowa Hunger Summit highlighting hunger-fighting efforts at home and abroad.

We are especially pleased that this ceremony will be broadcast live across the state by Iowa Public Television. Finally, we extend our special appreciation to all of you for joining us for what we are sure will be a meaningful and memorable celebration.

Ambassador Kenneth M. Quinn
President
Laureate Award Ceremony

**Musical Prelude**
*The Belin Quartet*

**Procession of Laureates and Dignitaries**

“In Any Language” by Iowa Poet Lucille Wilson
*Jonathan Taylor*

**Special Tribute to World Food Prize Founders**
*Ambassador Kenneth M. Quinn*

**John Chrystal and Ahmanson Intern Awards**
*Amanda Fletcher • Michael Gartner*

**A Brazilian Musical Tribute**
*Wagner and Walter de Oliveira Caldas*

**Laureate Proclamation**
*The Honorable Chester Culver*

**Presentation of the 2007 World Food Prize**
*Dr. Norman Borlaug • John Ruan III*

**Musical Conclusion**
*In Honor of Dr. Philip E. Nelson*

*Dinner will follow the Ceremony in the Capitol Rotunda*
The 2007 World Food Prize Laureate

Dr. Philip E. Nelson
United States

In recognition of his monumental achievement in ensuring adequate food and nutrition for the world
Dr. Philip E. Nelson's innovative scientific breakthroughs in large-scale storage, packaging, and transportation of fresh fruit and vegetable products using bulk aseptic food processing have revolutionized the food industry, significantly reducing post-harvest waste and spoilage and greatly increasing the availability and accessibility of nutritious food worldwide.

Dr. Nelson's pioneering research conducted at Purdue University led to the discovery of methods and equipment to preserve perishable food at ambient temperatures in very large (from 40,000 up to 500,000 gallons capacity) carbon steel tanks coated with epoxy resin.

He also designed specially sterilized valves and filters that allowed food product to fill and be removed from the tanks without reintroducing contaminants. His work began with tomatoes and later included a variety of seasonal crops. His technology made it possible to produce ultra-large scale quantities of high quality food, store it for long periods of time, and then draw upon the partially processed food for packaging in aseptic containers.

Where it had not been possible before, because of his work, enormous quantities of pathogen-free food could be distributed to plants around the world for final processing and packaging.

In partnership with the Scholle Corporation, Dr. Nelson developed a system that used sterilized and sealed bags to store processed food, which could then be shipped and stored in large boxes or similar containers. By the 1980s, this “bag-in-box” technology had spread throughout the food industry.

Working with another company, the Fran Rica Manufacturing Company (now part of FMC), Dr. Nelson engineered a variation of the bag sealing fitment as a membrane, which ruptures during the fill and then reseals with a sterilized foil cap. This is now the standard technology used for processing and packaging of aseptically processed foods worldwide.

The bag-in-box technology has had a primary impact on the developing world, where much of the harvested crop is often lost to spoilage. The low cost and relative ease of transporting various foods has allowed these countries to preserve food.
for domestic distribution or for export and sale overseas.

In the 1980s and ‘90s, Dr. Nelson worked with the Tropicana Corporation to combine his innovations in ambient temperature bulk aseptic processing and storage with refrigeration, which, it was discovered, protects the flavor of orange juice when stored for long periods of time in million-plus gallon tanks.

Brazilian orange juice producers and distributors later adapted Nelson’s bulk aseptic storage technology and began transporting fresh orange juice in gigantic, 8-million-gallon tanker ships. Once again, Dr. Nelson’s food science research, in concert with private sector business, led to an industry innovation that has become universal.

Dr. Nelson’s technologies can now be found in almost every country in the world. He has traveled extensively, sharing his methods and knowledge with scientists from around the globe.

New humanitarian applications have also arisen from his technology. Feeding programs have provided aseptically packaged milk and biscuit products as part of school nutritional programs in the Philippines, Vietnam, Indonesia, Pakistan and Bangladesh.

Dr. Nelson’s systems are being applied to provide emergency crisis relief, as the convenience and cost-effectiveness of the flexible packaging resulting from his research have been clearly demonstrated to global relief agencies.

“Dr. Nelson’s achievements place him among the giants of food science – Nicholas Appert, who discovered canning; Louis Pasteur, who developed pasteurization; and Clarence Birdseye who discovered the quick freezing process,” said former Institute of Food Technologists President Mark McLellan. “Dr. Nelson’s work has opened up the opportunity to feed the world.”
Dr. Norman Borlaug and his friend Clay Mathile have spent a good amount of time discussing the World Food Prize Youth Institute. Mr. Mathile, the chairman of the Mathile Institute and a longtime supporter of Dr. Borlaug’s efforts to spread the Green Revolution around the globe, has often heard Dr. Borlaug tell of the enormous impact the program has had on young people in Iowa. Dr. Borlaug has also told Clay Mathile about his dream that one day the Youth Institute could be a national organization drawing high school students from across America to Iowa each October to benefit from their interaction with World Food Prize Laureates and other international experts.

In many ways Dr. Borlaug and Clay Mathile are similar individuals. Dr. Borlaug grew up on a farm and went on to be one of the most widely acclaimed agricultural scientists of the 20th century. Clay Mathile took a small company and built it into a major American enterprise, Iams Pet Food. Even after retiring from their leadership positions, they both remain actively engaged in trying to make a difference in the world.

For this reason, Clay Mathile said that he wanted to make one of Dr. Borlaug’s dreams come true. To that end, he and the Mathile Institute are tonight announcing an initial five-year commitment of $750,000 to the World Food Prize Foundation to begin expanding its youth program into a National Youth Institute honoring the legacy of Dr. Borlaug, with a potential ten-year investment totaling $2 million.
The World Food Prize Youth Institute provides a three-day educational opportunity and forum for high school students and teachers from Iowa and beyond. Students are given the opportunity to interact with Nobel and World Food Prize Laureates and are exposed to an array of experts in the fields of agriculture and food security.

Each summer, the Borlaug-Ruan International Internship Program sends 13 Youth Institute “graduates” on eight-week internships at acclaimed agricultural research centers in Bangladesh, Brazil, China, Costa Rica, Egypt, Ethiopia, India, Kenya, Malaysia, Mexico, Peru, Philippines and Taiwan. After they return, the Borlaug-Ruan Interns write papers about their “life-changing” experiences abroad. These papers are judged for excellence, and two interns are selected annually to receive the Ahmanson Intern and John Chrystal Awards. This year’s recipients are Diane Brown of Johnston, who is attending Iowa State University and Stephen Lauer of Des Moines, who is enrolled at Drake University.

The John Chrystal Award is given in recognition of Mr. Chrystal’s lifelong commitment to improving international understanding and peaceful cooperation through agriculture and food security. The Ahmanson Intern Award is named in honor of Roberta Ahmanson for her generous support of the Youth Institute and her dedication to increasing students’ awareness of the challenges of global food security.
The World Food Prize Foundation is pleased to announce that Gensler Architecture, Design and Planning, RDG Planning & Design and Douglas Hoerr Landscape Architecture have been chosen to transform the historic Des Moines Public Library into the new Norman E. Borlaug | World Food Prize Hall of Laureates.

Open to the public, the Hall of Laureates will serve as a museum to recognize great achievements in agriculture; a convocation center at which to hold the Norman E. Borlaug International Symposium; a home for the new National Youth Institute; an educational facility featuring interactive displays on hunger and food security; and a conference center and community hall available to other groups and organizations for their meetings and events.

This magnificently restored beaux-arts space will celebrate the spirit of giving, emphasizing the importance of global food security. Dr. Borlaug will be honored for his role as the Father of the Green Revolution and the man who has saved more than a billion lives. The building will also pay tribute to the World Food Prize Laureates and Iowa’s agricultural and humanitarian pioneers for their significant contributions to the global fight against hunger and helping feed the world.

With $13.3 million committed from the Ruan Family, Polk County, the Institute of Museum and Library Services, the National Park Service – Save America’s Treasures, and the Belin Law Firm, the World Food Prize is endeavoring to raise the remaining $16 million necessary to complete the project in time for the 2010 International Symposium.
Gensler Architecture is a global architecture, design, planning, and strategic consulting firm with expertise in the design of a wide range of buildings and facilities. Gensler is committed to the preservation and adaptive reuse of historic districts, buildings, sites and landmarks, such as the American Conservatory Theatre in San Francisco and the historic Main Street Station in Richmond, Virginia.

RDG Planning & Design in Des Moines will work closely with Gensler throughout the planning, design and implementation phases. RDG’s experience in historic restoration can be seen throughout the magnificent Iowa State Capitol Building.

Douglas Hoerr Landscape Architecture has designed award-winning landscapes and green spaces throughout the country, including the beautification of Michigan Avenue in Chicago and the Fleur Drive and Ingersol Streetscapes in Des Moines.
Council of Advisors

H. E. Corazon C. Aquino
Philippines

Hon. George Bush
Houston, Texas

Hon. Jimmy Carter
Atlanta, Georgia

H.E. Olusegun Obasanjo
Emeritus
Nigeria

Dr. Norman E. Borlaug
Nobel Peace Prize Laureate
Dallas, Texas

Margaret Catley-Carlson
Chair, Global Water Partnership
Canada

Zhangliang Chen
President, China Agricultural University
China

A.S. Clausi
Past President, Institute of Food Technologists
Riverside, Connecticut

Sir Gordon Conway
President Emeritus, Rockefeller Foundation
Great Britain

Hon. Elizabeth Dole
United States Senator
Salisbury, North Carolina

Michael G. Gartner
Pulitzer Prize Winner
Des Moines, Iowa

Dr. Gregory L. Geoffroy
President, Iowa State University
Ames, Iowa

Hon. M. Peter McPherson
Chairman, Dow Jones & Company
Washington, D.C.

Cynthia H. Milligan
Dean, College of Business Administration
University of Nebraska - Lincoln

Jonathan F. Taylor
Chairman, The Booker Prize
Great Britain
The past year has been one of memorable events for the World Food Prize Foundation.

In July, thanks to the bipartisan leadership of the Iowa Congressional Delegation, Dr. Norman Borlaug was honored in Washington with the Congressional Gold Medal, America’s highest civilian honor.

With receipt of this prestigious honor, Dr. Borlaug became one of only five people in all of history to have received the Nobel Peace Prize, the Presidential Medal of Freedom and the Congressional Gold Medal. He joins Nelson Mandela, Mother Teresa, Elie Wiesel and Dr. Martin Luther King, Jr.
The Ruan companies began in 1932 with a single truck and a young man’s resolve to provide for his family. With the Great Depression worsening and his father having passed away, 17-year-old John Ruan sold one of the family cars, bought a truck, and went to work hauling gravel around Iowa.

Thanks to his entrepreneurial spirit, personable reputation, and rock-solid work ethic, within a couple of years he was successfully running a fleet of more than a dozen trucks throughout the Midwest. By 1957, Ruan Transport Corporation had expanded into other markets and was the nation’s largest carrier of bulk petroleum products.

One of John Ruan’s most significant achievements was stepping forward in 1990 to rescue the World Food Prize when the original corporate sponsor withdrew. Norman Borlaug and he formed a partnership which has brought this award to the point to where the President of Mexico and other world leaders have referred to it as “The Nobel Prize for Food.”

Now more than 75 years after John Ruan loaded his first order of gravel by hand, The World Food Prize Foundation is pleased to celebrate John Ruan’s legacy and history of success.
Presentation of the Borlaug Medallion to His Majesty The King

This past summer, the first ever Norman E. Borlaug Medallion was awarded to His Majesty King Bhumibol Adulyadej of Thailand. The Borlaug Medallion, which was announced at last year’s Laureate Award Ceremony, was presented to the King by former Iowa Governor Robert D. Ray at the Royal Palace in Bangkok.

Since his accession to the throne in 1946, King Bhumibol has displayed an unwavering dedication to the well being of his subjects, and a deep concern that they have sufficient food and proper nutrition.

Recognized in 2006 by the United Nations as the “Development King,” His Majesty’s projects have benefited millions of people across Thailand, with a particular focus on aiding ethnic groups and hill tribes in the mountain regions.

Dr. Hank Beachell
1906 - 2006

Sadly, the World Food Prize also experienced loss in the past twelve months. In December 2006, 1996 World Food Prize Laureate Hank Beachell passed away at the age of 100.

Thanks to his discovery of IR8 rice, Dr. Beachell was described as “the individual most responsible for the Green Revolution in rice,” by the American Society of Agronomy. Billions of people are now better fed, enjoy better health, and have increased life expectancy, thanks to Dr. Beachell and his unexpected and exemplary efforts in rice breeding.

In honor of this revered scientist, The World Food Prize and the University of Nebraska-Lincoln have established the Hank Beachell Scholars program, which this year has sent three Youth Institute participants from Dr. Beachell’s home state of Nebraska.
Walter and Wagner Caldas

Walter and Wagner Caldas return to the Laureate Award Ceremony following their breathtaking performance at last year’s event.

The twin brothers from the outskirts of Rio de Janeiro, Brazil won over last year’s audience, including University of Northern Iowa president Ben Allen. President Allen has since offered the Caldas brothers full scholarships to the university to study music.

Tonight, the newest UNI Panthers will once again display their virtuosity on the violin in a stirring performance that will continue to foster the relationship between Iowa and Brazil.

The Belin Quartet

The Belin Quartet was established in 2000 to fulfill a vision of David Belin that the whole community should have the opportunity to share the joys of classical music.

Belin was a prominent Des Moines attorney, civic leader, and philanthropist. A talented violinist in his own right, he was an ever-present supporter of music and the arts in the city.

The Belin Quartet plays a series of free noon-time concerts each summer on Fridays in downtown Des Moines. The quartet consists of five musicians - Julie Fox Henson (violin), Mary Pshonik (cello), Sherida Josephson (viola), John Helmich and Tracy Engman Finkelshteyn (alternating violins).
The Purdue Varsity Glee Club

For more than 110 years, the men of the Varsity Glee Club have made Purdue proud with their voices, charisma, high standard of academics and performance excellence. They serve as ambassadors of goodwill on campus, across the country, and around the world.

Music fosters a spirit of camaraderie among the students as they learn, perform, and grow together. From classical to contemporary, gospel to show tunes, the Glee Club’s broad repertoire allows them to “custom-fit” performances for diverse audiences. Many marvel that Purdue provides so much in the field of musical entertainment, as the University is a land grant institution that does not offer a degree in music.

The Varsity Glee Club has inspired audiences during nine European tours. They’ve touched people in Canada, Mexico, Australia, New Zealand, Fiji, China, the United Kingdom, and will tour South Africa in 2008. These men have stirred hearts from legendary stages such as the Crystal Cathedral and Carnegie Hall and performed at five presidential inaugurations. They’ve worked with Skitch Henderson, Marvin Hamlisch, and most recently Garrison Keillor during a broadcast of his internationally known live radio variety show A Prairie Home Companion.

It is of special significance that the Glee Club performs tonight. The evening’s honoree, 2007 World Food Prize Laureate Dr. Philip Nelson, is himself an alumnus of this distinguished organization.

“It is a great honor to perform for Dr. Nelson,” said Brian Breed, Director of Purdue Musical Organizations. “He has done the Glee Club, and indeed all of Purdue, proud with his remarkable achievements. Dr. Nelson will serve as an inspiration for generations of Purdue students to come.”
The Norman E. Borlaug International Symposium

Birgitte Kiær Ahring
Professor,
Technical University of Denmark
Denmark

Margaret Catley-Carlson
Chair,
Global Water Partnership
Canada

Zhangliang Chen
President,
China Agricultural University
China

H.E. Corrado Clini
Director-General,
Ministry for the Environment
Italy

Hon. Chuck Conner
Acting Secretary
of Agriculture
United States

Jeff Cox
Global Head of Corn and Soybeans,
Syngenta
United Kingdom

Gregory Geoffroy
President,
Iowa State University
United States

Hugh Grant
President, Chairman & CEO,
Monsanto
United Kingdom

Hon. James Greenwood
CEO,
Biotechnology Industry Organization
United States

Chad Holliday
CEO,
DuPont
United States

Suzanne Hunt
Biofuels Director,
Worldwatch Institute
United States

Amb. Melinda Kimble
Senior Vice President,
United Nations Foundation
United States
With Special Thanks to Our Sponsors

The Governor and The State Legislature of Iowa
Iowa Department of Economic Development
John Deere Foundation • Mathile Institute
The John Ruan Foundation Trust
Ruan Transportation Management Systems

The Ahmanson Charitable Community Trust • Bankers Trust
The Bill and Melinda Gates Foundation • Monsanto
Pioneer Hi-Bred • Ruan Securities

Caterpillar Foundation • Iowa Soybean Association • Faegre & Benson LLP
FMC Corporation • Hy-Vee • Kemin Industries • R.W. and Mary Nelson
Principal Financial Group Foundation • Renewable Energy Group • Soyfoods Council
Syngenta • United Soybean Board • USDA – Agricultural Research Service

Alliant Energy • Archer Daniels Midland • Atlantic Coca-Cola Bottling Company • Avis
Belin Law Firm • Betts Cadillac • Cargill • Coca-Cola Company • Essex Meadows • Farm Bureau
Max Holmes • Humanities Iowa • Iowa Export-Import Company • Iowa Corn Promotion Board
Kraft Foods • Land O’Lakes • Nationwide Agribusiness • Arthur Neis • Prairie Meadows
Reynolds and Reynolds • Janis and John Ruan III • Sasakawa Africa Association
Wellmark Blue Cross & Blue Shield

Frank Berlin & Associates • Blumenthal Family Foundation • Boesen the Florist • Julie and Woodward Brenton • Jane Chase
Patty and Jim Cownie • Des Moines Marriott Downtown • Rusty Hubbell Edwards • EMC Insurance Companies
Federal Home Loan Bank of Des Moines • First Citizens National Bank • Roswell & Elizabeth Garst Foundation
Barbara and Michael Gartner • Karen and Bill Hess • John and Mary Ann Hicks • Douglass Hoer Landscape Architecture
Fred & Charlotte Hubbell • Barbara and G. David Hurd • International Traders of Iowa • Iowa Savings Bank Charitable Foundation
Iowa State Education Association • Iowa State Bank Charitable Foundation • Sam and Delores Kalainov • Gerald and Joan Kirke
Kruidenier Charitable Foundation • Marabel and Harold C. Manders • Merchant Investments • Mercy Medical Center
Margaret and Tom Mehl • Mid-America Foundation • Onthank Co. • John Pappajohn • ProjectSkyLine LLC • Le Son and Kenneth Quinn
Raccoon Valley Bank Charitable Foundation • Suku and Mary Radia • RBC Dain Rauscher • Silicon Prairie Web Solutions
Sukup Manufacturing Company • Townsend Vision Inc. • Gregory R. and Stacey G. Tucker • William Van Orsdel • Curtis Van Veldhuizen
West Bancorporation Foundation • James Windsor III and Sandra Windsor • Craig Winters