

# **The 3<sup>rd</sup> International Symposium on Broomcorn Millet**

Marriot Inn, Fort Collins, CO, USA

August 8-12, 2018

The 3rd International Symposium on Broomcorn Millet (ISBM) organized by the University of Nebraska-Lincoln (UNL) and Colorado State University (CSU) will be held in Fort Collins, Colorado, USA in August 8 to 12, 2018 (<https://go.unl.edu/millet2018>). The symposium will also include minor crops similar to proso millet (foxtail millet, pearl millet, finger millet, and tef), which are grown in the USA on a very small scale.

Broomcorn millet (aka. proso millet, common millet, millet, hog millet) is one of the ancient crops that originated in China. Countries with significant production are China, Russia, USA, Ukraine, India, Slovenia, and Korea. In the USA, three states, Colorado (~50%), Nebraska (~25%), and South Dakota (~20%) grow ~95% of the US proso millet. It is tolerant to drought and infertile conditions, and also adapted to many adverse environments. This is due to the short growing season it requires, and because it needs very little water and little synthetic fertilizer to get a decent yield. This is a perfect crop for a changing climate. Broomcorn millet is richer in nutrients than most other major cereal crops. It is a source of starchy grain and has a low glycemic index, high fiber, and essential minerals and, is gluten free. Broomcorn millet is not only climate-friendly but good for human health as well. It is a common food ingredient in many Asian countries; however in the US, it is mostly used as bird feed, not human food.

In order to promote development of the broomcorn millet in the world, strengthen exchanges and cooperation in scientific research among the countries with significant broomcorn millet industry, and increase socio-economic development, the International Association on Broomcorn Millet was established. It was decided to convene the International Symposium on Broomcorn Millet (ISBM) every two years. The 1<sup>st</sup> and 2<sup>nd</sup> were held in China and South Korea, respectively.

The symposium will include academic exchanges, products displayed from all over the world, and other activities for participants. Representatives from broomcorn millet growing countries in Asia, North America, Europe, and other countries are expected to participate in the symposium. Scientists and entrepreneurs from all over the world will work together to exchange the latest academic and industrial development about broomcorn millet, and discuss the future trends of broomcorn millet development to promote the research and production of broomcorn millet across the world.

On behalf of the organizing committee, we invite scientists, industry personnel, and stakeholders working in broomcorn/proso millet from anywhere in the world to participate in the 3rd International Symposium on Broomcorn Millet (3rd ISBM) and join the International Association on Broomcorn Millet, so that we can work together to enhance the research, production, and marketing of broomcorn millet. The symposium will include presentations on foxtail millet, pearl millet, finger millet, and tef, similar to proso millet and grown in the USA on very small scale. Therefore, the participants will learn about these minor millet-like crops of the USA. The symposium includes a field tour visiting a commercial proso millet production farm in Colorado and the University of Nebraska-Lincoln dryland research station at Sidney, NE (<https://extension.unl.edu/statewide/panhandle/hpal/>). In addition to indoor presentations, the participants will have an opportunity to gain knowledge about proso millet research trials in the university's field research farm and commercial production on a farmer's field.

The city of Fort Collins, Colorado (<https://www.fcgov.com/>) is ~100 km from Denver International Airport (<https://www.flydenver.com/>) and is well connected to the city by air-port shuttle (<https://greenrideco.com/>). The town is home of the state’s agricultural university (<https://www.colostate.edu/>) and ~250 km from the University of Nebraska’s satellite campus, Panhandle Research and Extension Center (<https://extension.unl.edu/statewide/panhandle/>) located at Scottsbluff, Nebraska (<http://www.scottsbluff.org/>). Major proso millet commercial production farms in both the states of Colorado and Nebraska are located within 100-400 km.

## I. SYMPOSIUM ORGANIZATION

### 1. Organizing Committee

**Chairs:** Dr. Dipak Santra (UNL) and Dr. Jerry Johnson (CSU)

**Members:**

**UNL:** Patricia Martin, Stefani Cruz, Rituraj Khound, Dr. Xin Qiao, Dr. Gary Hergert, Dr. Alexander Pavlista, Dr. Cody Creech, Dr. Devin Rose, Dr. James Schnable, Dr. Bijesh Maharjan, and Dr. Yue Zhang.

**CSU:** Sally Jones, Kierra Jewell, Dr. Rick Novak, Ron Meyer, Wilma Trujillo, Dennis Kaan, and John Spring

**USDA-ARS:** Dr. Merle Vigil and David Brenner.

### 2. Host Organizations

University of Nebraska-Lincoln and Colorado State University

### 5. Supporting Organizations

UNL Extension, CSU Extension, and Darren Bauder (Farmer, CO)

## II. ACADEMIC ACTIVITIES

### 1. Categories

The symposium papers will be in the following categories:

- Breeding, Genetics, Germplasm, Genomics and Biotechnology
  - Morphology and taxonomy
  - Germplasm resources
  - Genetics and breeding
  - Genomics
  - Biotechnology including tissue culture
- Agronomy and Production
  - Farming practices
  - Production physiology
  - Crop rotation
- Products and Market
  - Quality for food, feed and beverages
  - Nutrition and health
  - Food chemistry & processing
  - New markets

### 2. Schedule

Date	Morning	Afternoon	Evening
August 8		Registration	Welcome dinner & keynote speech
August 9	Presentations	Presentations	Dinner at hotel

August 10	Presentations	Presentations	Banquet dinner at hotel
August 11	Field tour (Farm in CO)	Field tour (HPAL, Sidney, NE) followed by dinner	Return to hotel (9 pm)
August 12	Site-seeing* ( <b>optional</b> post conference tour)		Return & dinner at hotel (your own)
August 13	Check-out from hotel and departure		

\*This is NOT the part of Symposium. Interested participants will be responsible for the trip. The organizing committee will provide contact details of local travel agent and the participants can contact the agents directly for expense and other logistics. After the tour, tourist bus will drop you at the Marriot Inn.

### 3. Working language

The official language of the symposium is English. All presentations must be in English.

### 4. Presentations

All the participants will be encouraged to submit one paper to the symposium. The papers will be presented in the following two ways:

- Oral presentation: The speakers will make a 15-minute presentation and have 5-mins for questions and answers (Q&A).
- Poster presentation: The speakers will be expected to present their poster during the poster session.

### 5. Poster and products exhibition

The participants are welcome to present posters and display broomcorn millet products, books and research achievements during the symposium. Please contact the symposium secretariat for help if you have questions.

## III. ABSTRACT SUBMISSION

**Submission:** Follow instructions on the ‘**Abstract submission**’ tab at the 3<sup>rd</sup> ISBM website (<https://go.unl.edu/millet2018>). The tab will include a form and additional details. Abstracts ready for publication in the proceedings should not exceed 2 pages including figures, tables, and graphs. All figures and graphs must be in black and white.

- **Deadline:** June 30, 2018

## IV. REGISTRATION FOR SYMPOSIUM AND POST-SYMPOSIUM TOUR

**1. On-line registration:** Follow instructions at ‘**Registration & cancellation**’ tab at the 3<sup>rd</sup> ISBM website (<https://go.unl.edu/millet2018>)

- **Fees\* & payment:** US dollars only using a credit card ONLY (For problems with electronic payment or you have only a check as an option for payment, contact Michael Riese ([riese@unl.edu](mailto:riese@unl.edu)))
  - Symposium participant: \$750 each
  - Accompanying person: \$400 each

**2. Deadline:** April 30, 2018

**3. Cancellation\*:** Follow instructions at the same ‘**Registration & cancellation**’ tab at the 3<sup>rd</sup>

ISBM website (<https://go.unl.edu/millet2018>) Processing of the refund may take 3-5 business days.

- 10% refund if cancelled before April 30
- No refund if cancelled after April 30
- No refund for post-symposium tour (since majority of fees are for the transportation, they cannot be adjusted once booked).

**\*Registration fee for symposium includes:**

- Attendance at all symposium sessions
- A copy of the program and the symposium proceedings
- Meals (breakfast, lunch and dinner) & refreshments during official breaks during symposium August 8 (evening) -11 (night), 2018

**\*Registration fee for accompanying persons includes:**

- Meals (breakfast, lunch and dinner) including welcome and banquet dinner during symposium August 8 (evening) -11 (night), 2018.

**\*Registration fees do NOT include:**

- Hotel accommodations
- Airport transfers to and from the hotel
- Other incidental expenses

## V. Accommodation

- **Hotel reservation (Marriot Inn, Fort Collins, CO):** Follow instruction at ‘Hotel booking’ tab at the 3<sup>rd</sup> ISBM website (<https://go.unl.edu/millet2018>):

The Marriot Inn is located at the heart of the city of Fort Collins. The Foothills Mall (<https://shopfoothills.com>) is next-door, which includes 30 restaurants, shopping and 9-plex digital movie theatre serving beverages and food in your seats, Macy’s, Nordstrom, H&M just to name a few stores. The hotel includes the following:

- Complimentary parking
- Free indoor/outdoor swimming pool
- Full workout facility – complimentary
- Starbucks on site
- Full service restaurant and lounge

## VI. MISCELLANEOUS INFORMATION

### 1. Opening ceremony

The Opening Ceremony will take place in Marriot Inn, Fort Collins, CO on August 8, 2018

### 2. Letter of invitation

The participants requiring a letter of invitation for Visa and other purposes should e-mail a Letter (draft) with required details to:

Patricia Martin, Secretariat of 3<sup>rd</sup> ISBM  
University of Nebraska-Lincoln  
4502 Ave. I, Scottsbluff, NE 69361

E-mail: [pmartin2@unl.edu](mailto:pmartin2@unl.edu)

*\*This is only to assist participants who needs permission to attend the symposium. It should not be considered an official invitation covering your registration fee and other expenses.*

### 3. Passports and Visas

A valid passport and visa is required for the entry into the United States. Please consult the nearest United States Embassy or Consulate at your country about passport and visa requirement.

### 4. Travel from Airport: Use Green Ride Shuttle Service

**Green ride:** <https://greenrideco.com>

DIA Airport pickup location: Green Ride pickup location at Denver International Airport is on the east side of the main terminal. Exit through door 507 and find us at Island 5, under the special permits sign.

**Driving directions** from Denver International Airport (DIA) to Marriot Hotel, Ft. Collins, Colorado (GPS: N.40.538139, W.105.073056):

From DIA, take Pena Blvd East to E-470 North (toll \$5.00) to I-25 North, Take I-25 to Harmony Rd. (Exit 265), go west on Harmony Rd (approx. 5 mi.) to JFK Pkwy. Turn right, travel north (approx. 1 mi.) on JFK Pkwy to Horsetooth Rd, cross intersection into hotel parking lot.

## VII. IMPORTANT DEADLINES

- |                       |                |
|-----------------------|----------------|
| • Registration        | April 30, 2018 |
| • Hotel booking       | April 30, 2018 |
| • Post-symposium tour | April 30, 2018 |
| • Abstract submission | June 30, 2018  |

## VIII. REGIONAL TOURISM\*

Foreign delegates who are interested in Tourism in the region Colorado, Wyoming and South Dakota may have life-time experience visiting the following world-famous National Parks:

- Rocky Mountain National Park (<https://www.nps.gov/romo/index.htm>)
- Yellowstone National Park (<https://www.nps.gov/yell/index.htm>)
- Mount Rushmore National Memorial (<https://www.nps.gov/moru/index.htm>).
- <https://www.go-colorado.com/Fort-Collins/destinations/>
- <http://www.colorado.com/activities/tours>
- <https://www.travelwyoming.com/>
- <http://blackhillsbadlands.com/publications/south-dakota-vacation-guide>

\*The organizing committee will provide contact details of local travel agent to the interested participants and the participants can contact the agents directly for expense and other logistics.