



First announcement

February 3-5, 2020

Montpellier, France



Crop Modelling for the Future



Four years after the first International Crop Modelling Symposium in Berlin (iCROP M2016), **crop modelers from around the world will meet at the iCROP M2020** Symposium in the Corum Conference Centre of **Montpellier, France** to exchange on advances in crop modelling and identify challenges and new opportunities for future research.

iCROP M2020 will focus on recent **improvements and applications of crop simulation models** to better support agricultural production and food security under global change. **All types of crops and cropping systems (arable, grasslands, perennial crops, intercrops, etc..)** and **world regions** will be considered, including **high and low inputs systems**, with relevance for large **agricultural enterprises to smallholder farmers**, under climate change.

Symposium Chairs

Eric Justes (CIRAD, France)

Senthold Asseng (Univ. of Florida, USA)

Frank Ewert (ZALF, Germany)

Marie Launay (INRA, France)

Pierre Martre (INRA, France)

Christophe Pradal (CIRAD & INRIA, France)

iCROP M2020 web site
<http://www.icropm2020.org>

iCROP M2020 secretariat
contact@icropm2020.org



Crop modelling for Agriculture and Food Security under Global Change

Crop Modelling for the Future



Rationale and aims

Agriculture faces **multiple crucial challenges**. Achieving food security in the face of growing global population and increasing resource scarcity remains a central priority. When considered together with various global change drivers and the potential role of agriculture in climate mitigation, innovative approaches to growing crops are clearly required. Crop models are increasingly called upon to **understand and disentangle the environmental factors driving crop production** and to support the design of improved genotypes and new cropping systems, thereby assisting in the transformation of agriculture. While the development of connected sensors and the Internet of Things offer opportunities it also necessitates **novel crop modelling approaches**.

The aims of iCROP M2020 are to:

- review advances in crop modelling and identify challenges and new opportunities for future research;
- explore possible adaptation options of agriculture to climate and global changes and the contribution of agriculture to climate change mitigation.

Preliminary program

3 days, organized each day with: 1 plenary session, 3 parallel sessions, 1 poster exhibition and/or 1 model demonstration

More information available on icropm2020.org.

Main sessions

1. Improvement of crop models
2. Crop modelling for ecological intensification
3. Linking crop/plant models and genetics
4. Linking crop models to data stream systems in the digital age
5. Crop modelling for risk and impact assessment
6. Methods and software to support modelling activities

Scientific committee members

Bruno Basso (MSU, US)	Class Nendel (ZALF, DE)
Kenneth Boote (UF, US)	Jørgen Olesen (UA, DK)
Karine Chenu (UQ, AU)	Elisabeth Pattey (AAFC, CA)
Roberto Confalonieri (UNIMI, IT)	Cheryl Porter (UF, US)
Marc Corbeels (CIMMYT & CIRAD, KE)	Vittorio Rossi (USCS, IT)
Jochem Evers (WUR, NL)	Reimund Rötter (UG, DE)
Dean Holzworth (CSIRO, AU)	Alex Ruane (NASA, US)
Gerrit Hoogenboom (UF, US)	Claudio Stöckle (WSU, US)
Françoise Lescourret (INRA, FR)	Peter Thorburn (CSIRO, AU)
Guillaume Lobet (UCL, BE)	Vincent Vadez (IRD, FR)
Delphine Luquet (CIRAD, FR)	Heidi Webber (ZALF, DE)
Dylis MacCarthy (UG, GH)	Xiaogang Yin (CAU, CN)
Charlie Messina (Corteva Agri., US)	Xinyou Yin (WUR, NL)
Christoph Müller (PIK, DE)	Yan Zhu (NAU, CN)



Crop Modelling for the Future

*Crop modelling for
Agriculture
and Food Security under
Global Change*

See you in Montpellier!

The sunny place for Agronomy and Crop Modelling

iCROP M₂₀₂₀ Symposium (3-5 February 2020)

The symposium will focus on **recent scientific work** related to model improvement, development and use of the experimental data for modelling, and on **advancements in model applications** considering new methods of model intercomparison, uncertainty propagation and scaling.

While **the main focus will be on crops** (arable and grasslands) and **crop-soil interactions**, progress in related topics, like **intercropping agroforestry, agroecology, and integrated assessment modelling** will be also addressed.

Digital farming and efforts to integrate crop and plant modelling (FSPM) with **high-throughout phenotyping and genetic improvement** will be considered, as well as **new modelling approaches** and **links to big data** facilitated by innovative software technologies.

Side Meetings (6-7 February 2020)

Satellite workshops and training courses on modelling will be organized on 6 and 7 February 2020 in Montpellier (at CIRAD and other places) by various research groups/teams (STICS model seminar, etc.), projects (AgMIP, etc.) and courses ("Working with Dynamic Crop Models", etc.).

More detail will be regularly published on [iCROP M₂₀₂₀.org](http://www.icropm2020.org).

Deadlines

Abstract submission

Opening: **31 May 2019**

Deadline: **30 August 2019**

Registration & Payment

Opening: **31 May 2019**

Early-bird deadline: **15 November 2019**

Location and Accommodation

All practical information will be regularly implemented in iCROP M₂₀₂₀ web site:

<http://www.icropm2020.org>

Montpellier city and Occitanie region

To discover Montpellier city:

<https://www.montpellier-france.com/>

To discover Occitanie region:

<https://www.tourism-occitanie.co.uk/>

