



Second announcement

February 3-5, 2020

Montpellier, France



Crop Modelling for the Future



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.

What's new in the 2nd announcement?

- **Abstract submission is open**, until September 15
- **Registration is open**, with early-bird price until Nov. 15
- **Prices** for registration are now available
- **Invited Keynote speakers** are now known
- **Expression of interest for Side-Event** organization open until September 05

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
<https://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.

Program and keynote speakers

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

More information about the program are available on <https://www.icropm2020.org/programme>. **Keynote speakers** may be retrievable on <https://www.icropm2020.org/keynote-speakers>.

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
Agriculture
and Food Security under
Global Change*

Crop Modelling for the Future

iCROPm₂₀₂₀ 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 Events (6–7 February 2020)

Satellite workshops and training courses on modelling will be organized on 6 and 7 February 2020 in Montpellier (at Agropolis International).

The deadline to submit a side-event is 5 September 2019.

Different side-event durations are proposed:

- 2 days (including 2 lunches and 4 coffee-breaks) € 78 incl. VAT
- 1 day (including 1 lunch and 2 coffee-breaks) € 39 incl. VAT
- Half day (including 1 coffee-break, NO lunch) € 15 incl. VAT

→ **the potential organizers must send an E-mail to apply at:**

contact@icropm2020.org

See you in Montpellier!

The sunny place for Agronomy and Crop Modelling

Registration and submission open

Special prices for students and early-bird registration

Abstract submission

Opening: **15 July 2019**

Deadline: **15 September 2019**

Registration & Payment

Opening: **15 July 2019**

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

All information available at: <https://www.icropm2020.org>

Location and Accommodation

All practical information will be regularly implemented in iCROPm2020 web site:

<https://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/>

