iCROPM2020 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)

iCROPM2020 web site
https://www.icropm2020.org

iCROPM2020 secretariat
contact@icropm2020.org
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 iCROP2020 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.

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

Program and keynote speakers

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

Crop modelling for Agriculture and Food Security under Global Change

**iCROP**2020 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

**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](https://www.icropm2020.org)

**Location and Accommodation**

All practical information will be regularly implemented in iCROP2020 web site: [https://www.icropm2020.org](https://www.icropm2020.org)

**Montpellier city and Occitanie region**

To discover Montpellier city: [https://www.montpellier-france.com/](https://www.montpellier-france.com/)

To discover Occitanie region: [https://www.tourism-occitanie.co.uk/](https://www.tourism-occitanie.co.uk/)

See you in Montpellier! The sunny place for Agronomy and Crop Modelling