February 3-5, 2020

Montpellier, France

iCROPM2020
Save the date!

Four years after the first International Crop Modelling Symposium in Berlin (iCROPM2016), **crop modelers from around the world will meet at the iCROPM2020 Symposium in Montpellier, France** to exchange on advances in crop modelling and identify challenges and new opportunities for future research.

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, intercrops) and world regions** will be considered, including high and low inputs systems, with relevance for large agricultural enterprises to smallholder farmers.

Symposium Chairs

Eric Justes (CIRAD, France)

Senthold Asseng (University of Florida, USA)

Frank Ewert (ZALF, Germany)

Marie Launay (INRA, France)

Pierre Martre (INRA, France)

Christophe Pradal (CIRAD & INRIA, France)

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iCROPM2020

Crop modelling for Agriculture and Food Security under Global Change

Save the date!

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

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 necessitate novel crop modelling approaches.

The aims of iCROPM2020 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.

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 Meetings (6-7 February 2020)

Satellite workshops and training courses on modelling will be organized on 6 and 7 February 2020 by various research groups/teams, projects and initiatives.

Scientific committee members

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