# CONFERENCE PROGRAM

## Agriculture and Climate Change in Transition Economies
IAMO Forum 2015 | 17 - 19 June 2015 | Halle (Saale), Germany

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<th>Wednesday, June 17</th>
<th>Thursday, June 18</th>
<th>Friday, June 19</th>
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<tr>
<td>8:00 REGISTRATION</td>
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<tr>
<td>9:00 CONFERENCE OPENING</td>
<td>9:00 CONFERENCE OPENING</td>
<td>9:00 WELCOME ADDRESS</td>
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<tr>
<td>9:15 PLENARY SESSION</td>
<td>9:30 PLENARY SESSION</td>
<td>9:15 PLENARY SESSION</td>
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<tr>
<td>Regional assessments of options for mitigation and adaption (LH)</td>
<td>Farm-level and case study insights (LH)</td>
<td>Opportunities and challenges of climate-smart agriculture (LH)</td>
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<tr>
<td>Pete Smith (University of Aberdeen, Scotland, UK)</td>
<td>Jikun Huang (Center for Chinese Agricultural Policy, Chinese Academy of Science, China)</td>
<td>Leslie Lipper (Food and Agriculture Organization of the United Nations (FAO), Italy)</td>
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<td>Maximilian Auffhammer (University of California, Berkeley, USA)</td>
<td>Vladimir Romanenkov (All-Russian Institute of Agrochemistry, Moscow, Russian Federation)</td>
<td>Hermann Lotze-Campen (Potsdam Institute for Climate Impact Research (PIK), Germany)</td>
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<tr>
<td>10:45 COFFEE BREAK</td>
<td>11:00 COFFEE BREAK</td>
<td>10:45 COFFEE BREAK</td>
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<tr>
<td>11:15 KEYNOTE ADDRESS</td>
<td>11:15 KEYNOTE ADDRESS</td>
<td>11:15 MODERATED PANEL DISCUSSION</td>
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<tr>
<td>Climate risk and food security (LH)</td>
<td>Climate risk and food security (LH)</td>
<td>How to make agriculture more climate-smart? (LH)</td>
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<td>Hans Joachim Schellnhuber (Potsdam Institute for Climate Impact Research (PIK), Germany)</td>
<td>Hans Joachim Schellnhuber (Potsdam Institute for Climate Impact Research (PIK), Germany)</td>
<td>Moderator: Alfons Balmann (IAMO)</td>
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<tr>
<td>12:00 LUNCH</td>
<td>12:00 LUNCH</td>
<td>Discussants: Jikun Huang (Chinese Academy of Science)</td>
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<tr>
<td>13:00 PARALLEL SESSIONS A</td>
<td>14:00 PARALLEL SESSIONS E</td>
<td>Leslie Lipper (FAO)</td>
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<tr>
<td>A1: GHG emissions and mitigation potential in the livestock sector (LH)</td>
<td>B1: Climate change, water resources and agricultural development in Central Asia (LH)</td>
<td>Hermann Lotze-Campen (PIK)</td>
</tr>
<tr>
<td>14:40 COFFEE BREAK</td>
<td>B3: Effects of climate change on agriculture and the role of public policies (CR2)</td>
<td>Liudmila Orlova (The National Movement for Conservation Agriculture)</td>
</tr>
<tr>
<td>15:15 PARALLEL SESSIONS B</td>
<td>E1: Impacts of climate variability on agricultural production in Russia, Ukraine, and Kazakhstan (I) (LH)</td>
<td>Georg Vierling (Südzucker International GmbH)</td>
</tr>
<tr>
<td>B1: Climate change, water resources and agricultural development in Central Asia (LH)</td>
<td>E2: Climate change food security and sustainable agriculture in China (II) (CR1)</td>
<td>Wolfgang Vogel (Farmers’ Association in Saxony)</td>
</tr>
<tr>
<td>16:45 COFFEE BREAK</td>
<td>16:00 PARALLEL SESSIONS F</td>
<td>13:30 LUNCH</td>
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<tr>
<td>17:15 PARALLEL SESSIONS C</td>
<td>F1: Water competition and land use along major rivers in Central Asia (LH)</td>
<td>CR1 = Conference Room 1</td>
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<tr>
<td>C1: The role of agricultural insurance to improve climate resilience in rural economies (LH)</td>
<td>F2: Climate change, food security and sustainable agriculture in China (III) (CR1)</td>
<td>CR2 = Conference Room 2</td>
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<tr>
<td>C2: Strategies for sustainable land management in the steppe zones: Economic and institutional solutions to climate change (II) (CR1)</td>
<td>17:30 END OF CONFERENCE DAY 2</td>
<td>18:45 END OF CONFERENCE DAY 1</td>
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<tr>
<td>C3: Management of water resources in Central Asia (CR2)</td>
<td>19:00 CONFERENCE DINNER</td>
<td>19:00 BARBECUE WITH LIVE MUSIC</td>
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<th>Time</th>
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<tr>
<td>8:00am - 9:00am</td>
<td>Registration</td>
<td>Lecture hall</td>
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<tr>
<td>9:00am - 9:15am</td>
<td>Conference opening</td>
<td>Lecture hall</td>
<td>Welcome address: Alfons Balman (IAMO, Germany)</td>
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</tbody>
</table>
| 9:15am - 10:45am | P1: Plenary session: Regional assessments of options for mitigation and adaptation                | Lecture hall                  | Keynote Chair: Daniel Müller  
   **Keynotes:****  
   Detecting and attributing the impact of climate change on agriculture: What do we know?  
   Maximilian Auffhammer (University of California, Berkeley, USA)  
   Addressing the joint challenges of climate change and food security  
   Pete Smith (University of Aberdeen, Scotland, UK)  
   Regional assessments of options for mitigation and adaptation  
   Daniel Müller  
   Keynote Address: Climate risk and food security  
   Hans Joachim Schellnhuber (Potsdam Institute for Climate Impact Research (PIK), Germany)  
   Livestock and the water challenge of future food supply  
   Isabelle Weindl  
   Livestock emissions mitigation:  
   The key role of realizing the Former Soviet Union production potential  
   Petr Havlík, David Leclère, Dmitry Schepaschenko, Juraj Balkovič, Andre Deppermann, Mario Herrero, Hugo Valin, Erwin Schmid, Michael Obersteiner  
   1IIASA, Austria; 2CSIRO, Australia; 3BOKU, Austria; depperma@iiasa.ac.at  
   Regional variations in use of crops for livestock production  
   Prajat Pradhan, Matthias Lüdeke, Dominik Reusser, Juergen Kropp  
   1PIK, Germany; 2University of Potsdam, Germany; pradhan@pik-potsdam.de  
   Uncertainty in mapping global grazing intensity  
   Tamara Fetzel, Kartheinz Erb  
   Alpen-Adria-Universitaet Klagenfurt, Austria; tamara@fetzelp.eu  
   More grassland area or better grassland quality? Tradeoff between grassland area and grassland quality of livestock grazing using directional distance function  
   Wei Huang, Bernhard Bruemmer  
   University Goettingen, Germany; huangw.simlab@gmail.com  |
### Do Western and Eastern Europe have the same agricultural climate response? The importance of a large adaptive capacity.

*Janka Vanschoenwinkel, Steven Van Passel*

Hasselt University, Belgium; janka.vanschoenwinkel@uhasselt.be

### Seeds of change: Sustainable agriculture as a path to prosperity of the Western Balkans

*Vedran Horvat, Tomislav Tomašević*

Heinrich Boell Stiftung - Hrvatska, Croatia; tomaslav.tomasevic@hr.boell.org

### How sustainable agriculture depicts social values: View from Croatia

*Nataša Bokan¹, Jelena Puđak²*

1 University of Zagreb, Croatia; ²Institute of Social Sciences Ivo Pilić, Croatia; nbokan@agr.hr

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<table>
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<tr>
<th>Time</th>
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<tr>
<td>2:40pm - 3:15pm</td>
<td>Coffee break</td>
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| 3:15pm - 4:45pm | **B1: Climate change, water resources and agricultural development in Central Asia**  
**Session Chair:** Nodir Djanibekov  
**Water resources in Central Asian agricultural development**  
*Akmal Karimov*  
IWMI, Uzbekistan; a.karimov@cgiar.org  
**Crop diversification as a climate risk mitigation strategy:**  
*Farm-level evidence from Uzbekistan*  
*Martin Petrick, Nodir Djanibekov*  
IAMO, Germany; petrick@iamo.de  
**Water users’ associations in Central Asia:**  
*Opportunities and challenges for development*  
*Nozilakhon Mukhamedova¹,², Oytüre Anarbekov¹*  
¹IWMI, Uzbekistan; ²IAMO, Germany; nozilar@gmail.com  
**Benefits of regional cooperation in water use to cope with water scarcity in the Aral Sea Basin (Central Asia)**  
*Maksud Bekchanov¹, Nodir Djanibekov², Claudia Ringler³*  
¹IWMI, Sri Lanka; ²IAMO, Germany; ³IFPRI, USA; m.bekchanov@cgiar.org |
|               | Lecture hall                                  |
**Session Chair:** Insa Theesfeld  
**Institutions, sustainability, and the role of the state in agriculture:**  
*A case study from West Siberia, Russia*  
*Yuliana Griewald*  
Humboldt University of Berlin, Germany; yuliana.griewald@hu-berlin.de  
**Agricultural policy in Russian Federation and its implications for climate change adaptation in Western Siberia**  
*Nataliya Stupak*  
Humboldt University of Berlin, Germany; nataliya.stupak.1@hu-berlin.de  
**The overview of agricultural advisory/extension services in KULUNDA project study region**  
*Milada Kasarjyan, Manfred Frühaufl, Peter Liebelt*  
Martin-Luther University Halle-Wittenberg, Germany; milada.kasarjyan@geo.uni-halle.de |
|               | Conference room 1                             |
| 3:15pm - 4:45pm | **B3: Effects of climate change on agriculture and the role of public policies**  
**Session Chair:** Daniel Müller  
**Assessing impacts of climate change on agriculture at global and regional scales**  
*Martin Banse (presented by Peter Zander)*  
Thünen-Institute, Germany; martin.banse@ti.bund.de |
Echoes from the Soviet Past: Bias in wheat production statistics in Kazakhstan
Saule Burkitbayeva, Dauren Oshakbayev
LICOS, Belgium; saule.burkitbayeva@student.kuleuven.be

Is Indian agriculture becoming resilient to droughts? Evidence from rice production systems
Pratap S Birthal1, Digvijay S Negi2, Md Tajuddin Khan1, Shaily Aggarwal1
1NCAP, India; 2Indian Statistical Institute, India; 3IFPRI, India; tajuddin.mse@gmail.com

Institutional determinants of climate-smart agriculture – The case of biogas development in Cuba
Tilmann Reinhardt
Mercator Fellowship on International Affairs, Germany; tilmannreinhardt@googlemail.com

4:45pm - 5:15pm Coffee break

5:15pm - 6:45pm

C1: The role of agricultural insurance to improve climate resilience in rural economies
Session Chair: Ihtiyor Bobojonov

Farmer driven, science based adaptation: The example of Index Insurance
Daniel Edward Osgood
Columbia University, USA; deo@iri.columbia.edu

Demand for crop insurance in Uzbekistan
Nuriddin Nasiridinovich Muradullaev1, Ihtiyor Bobojonov1, Aden Aw-Hassan2, Thomas Glauben3
1Banking and Finance Academy, Uzbekistan; 2IAMO, Germany; 3ICARDA, Jordan; abu932002@yahoo.co.uk

Analysing the role of price and yield as sources of volatility of crop farm revenues in transition economies. Empirical evidences from Armenia.
Simone Severini1, Giuliano Di Tommaso1, Hovhannes Harutyunyan1, Antonella Tantari1
1Università della Tuscia, Italy; 2Eurasia International University, Armenia; severini@unitus.it

Pros and cons of subsidizing agricultural insurance programs in the CIS
Ihtiyor Bobojonov, Linde Götz
IAMO, Germany; goetz@iamo.de

C2: Strategies for sustainable land management in the steppe zones: Economic and institutional solutions to climate change (II)
Session Chair: Ladislav Jelinek

Land property rights and investment incentives - Study from the Semi-desert steppe region in Russia
Olga Petrovna Fadeeva1, Ladislav Jelinek2, Andreas Wust1, Insa Theesfeld3
1Novosibirsk State University, Russia; 2Martin-Luther University Halle-Wittenberg, Germany; 3Leibniz Institute for Regional Geography, Germany; fadeeva_o@rambler.ru

Sustainable land management under climate change in Western Siberia: Potential of adapted cultivation technology in cereal production systems
Insa Kühling, Dieter Trautz
University of Applied Sciences Osnabrück, Germany; i.kuehling@hs-osnabrueck.de

Farm-level costs of adoption of modern soil cultivation system: The case of Siberian Kulunda Steppe
Miroslava Bavorova1, Elena Ponkina2
1Martin-Luther University Halle-Wittenberg, Germany; 2Altai State University Barnaul, Russia; miroslava.bavorova@landw.uni-halle.de
5:15pm - 6:45pm  C3: Management of water resources in Central Asia  
Session Chair: Martin Petrick  

Strategies for climate change adaptation and mitigation: Transition to the resource-efficient pattern in agriculture of Uzbekistan  
Kamil Muhamedkhanova, Talat Shadybaev  
Center for Economic Research, Uzbekistan; kamila.muhamedhanova@cer.uz  

Central Asian irrigation sector in a climate change context: Some reflections  
Iskandar K. Abdullaev (presented by Saltanat Naimanova)  
Regional Environmental Center for Central Asia, Kazakhstan; iabdullaev@carececo.org  

Conference room 2  
Cooperation between cotton and wheat producers in using water in Uzbekistan: A game theoretical approach  
Abdusame Abduxamidovich Tadjiev¹, Shavkat Hasanov², Nodir Djanibekov³  
¹University of Genoa, Italy; ²Samarkand Agricultural University, Uzbekistan; ³IAMO, Germany; aaabdusame@gmail.com  

The effects of water scarcity on the agricultural sector of Tajikistan  
Parviz Khakimov  
Centre for Economic Studies, Tajikistan; parviz_khakimov@yahoo.com  

6:45pm  End of conference day 1  
7:00pm  Barbecue with live music (IAMO vestibule)  

Date: Thursday, 18/Jun/2015  
8:00am - 9:30am  Registration  

9:30am - 11:00am  P2: Plenary session: Farm-level and case study insights  
Session Chair: Thomas Herzfeld  
Keynotes:  
Climate change and China’s agriculture: Impact and adaptation  
Jikun Huang (Center for Chinese Agricultural Policy, Chinese Academy of Sciences, China)  
Effective organic matter stock management in Russian agriculture and adaptation strategies to climate change  
Vladimir Romanenkov (All-Russian Institute of Agrochemistry, Moscow, Russian Federation)  

11:00am - 11:30am  Coffee break  

11:30am - 1:00pm  D1: Impacts of climate variability on agricultural production in Russia, Ukraine, and Kazakhstan (I)  
Session Chair: Florian Schierhorn  

Regional agroclimatic monitoring and evaluation of climate change impact on Russia’s agriculture  
Vera Pavlova  
Russian Research Institute of Agricultural Meteorology, Russian Federation; vnp2003@bk.ru  

Vulnerability of crop yields to climate conditions in Ukraine  
Friedrich Koch¹, Florian Schierhorn¹, Daniel Müller¹²  
¹IAMO, Germany; ²Humboldt University of Berlin, Germany; koch@iamo.de  

Assessing the impact of climate change on Russian grain production  
Maria Belyaeva¹, Raushan Bokusheva²  
¹IAMO, Germany; ²Institute for Environmental Decisions, ETH Zurich; belyaeva@iamo.de  

Changes of agroclimatic conditions and their impact on winter rye yields in the Central Nonblack Soil Zone  
Olga Sukhoveeva  
Russian Academy of Sciences, Russian Federation; olgasukhoveeva@gmail.com
11:30am - 1:00pm D2: Climate change, food security and sustainable agriculture in China (I)
Session Chair: Zhanli Sun

Food security in China: Future perspective
Xuefeng Cui1,2, Xiaolei Liu1, Reshmita Nath3, Ruinan Sun1
1Beijing Normal University, China; 2University College Dublin, Ireland; 3Chinese Academy of Science, China; xuefeng.cui@bnu.edu.cn

China’s land-use transition and driving forces during the past 300 years: A historical perspective
Lijuan Miao1, Feng Zhu2, Zhanli Sun2, John Moore3, Xuefeng Cui1
1Beijing Normal University, China; 2IAMO, Germany; 3University of Reading, United Kingdom; miao1111111@gmail.com

The methodology of quantifying agricultural drought risk in China based on major cereal crops
Chaoqing Yu1, Xiao Hang1, Han Chen1, Changsheng Li2, Yuali Yue1, Guorui Huang1, Jie Zhang1
1Tsinghua University, China; 2University of New Hampshire, USA; chaoqingyu@tsinghua.edu.cn

China’s agriculture transition: From urban capture to rural-urban share
Lanjiao Wen, Anlu Zhang
Huazhong Agricultural University, China; zhanganlu@mail.hzau.edu.cn

11:30am - 1:00pm D3: Land use strategies for mitigating climate change
Session Chair: Lioudmila Chatalova

Possible role for conservation agriculture in climate change adaptation and mitigation in Central Asia: A preliminary review
Aziz Isralovich Nurbekov1, Amir Kassam2, Alisher Mirzabayev3, Jozef Turok1, Dossymbek Sydyk1, Zokhidjon Ziyadullaev1
1ICARDA-CAC, Uzbekistan; 2University of Central Asia, Kyrgyzstan; 3University of Bonn, Germany; a.nurbekov@cgiar.org

Agroforestry for landscape restoration and livelihood development in Central Asia
Utkur Djanibekov1, Klara Dzhakypbekova2, Horst Weyerhaeuser3, Robert Zomer3, Grace B. Villamor1,5, Jianchu Xu2
1University of Bonn, Germany; 2University of Central Asia, Kyrgyzstan; 3World Agroforestry Centre (ICRAF) in East and Central Asia, China; 4University of Bonn, Germany; 5ICRAF, Indonesia; u.djanibekov@ilr.uni-bonn.de

Examining changes in local adaptive capacity resulting from climate change adaptation programming in rural Kyrgyzstan
Aiganysh Isaeva
Mountain Societies Research Institute, Kyrgyzstan; aiganysh.isaeva@ucentralasia.org

Linking land use transition with gender-specific preferences in Northern Vietnam
Grace B. Villamor1,5, Delia Catacutan2
1University of Bonn, Germany; 2ICRAF, Vietnam; 3ICRAF, Indonesia; gracev@uni-bonn.de

1:00pm - 2:00pm Lunch break

2:00pm - 3:30pm E1: Impacts of climate variability on agricultural production in Russia, Ukraine, and Kazakhstan (II)
Session Chair: Friedrich Johannes Koch

Estimates of grain exports of Russia, Ukraine and Kazakhstan for the 2020s
Nikolai Dronin1, Andrey Kirilenko2, Elena Lioubimtseva3
1Moscow State University, Russian Federation; 2University of North Dakota, USA; 3Grand Valley State University, USA; ndronin@gmail.com
## The transformation of the Russian agricultural sector: Implications for the global carbon cycle

**Drivers of wheat yields in Western Siberian bread basket of Russia**

**Climate impacts on cereal yields. A Hungarian case**

**Identification of water scarcity and providing solutions for adapting to climate changes in the arid Heihe River Basin of China**

**Impact of climate change on herdsman’s income: A case of three-river headwaters region in China**

**Manure networks to reduce greenhouse gas emissions from Chinese agriculture – feasibility and future potentials**

**Institutional conditions and adaptive capacity of conjunctive water management: Comparing three cases in Northwest China**

## Conference room 1

### 2:00pm - 3:30pm

**E2: Climate change, food security and sustainable agriculture in China (II)**

**Identification of water scarcity and providing solutions for adapting to climate changes in the arid Heihe River Basin of China**

**Impact of climate change on herdsman’s income: A case of three-river headwaters region in China**

**Manure networks to reduce greenhouse gas emissions from Chinese agriculture – feasibility and future potentials**

**Institutional conditions and adaptive capacity of conjunctive water management: Comparing three cases in Northwest China**

## Conference room 2

### 2:00pm - 3:30pm

**E3: Farm-level strategies for mitigation and adaptation**

**Market-based environmental instruments for risk-averse farmers: A case of rubber agroforest in Jambi Province, Indonesia**

**Agricultural cooperatives and household welfare: Empirical evidence from apple farmers in China**

**State-contingent production: The case of grain in Saxony-Anhalt**

## Coffee break

### 3:30pm - 4:00pm

## F1: Water competition and land use along major rivers in Central Asia

**Actor modelling to balance land use and ecosystem protection in the Tarim River Basin, Northwest China**

**Actor modelling to balance land use and ecosystem protection in the Tarim River Basin, Northwest China**

**Actor modelling to balance land use and ecosystem protection in the Tarim River Basin, Northwest China**
### Ecosystem degradation in the Ili-Balkhash Basin, Kazakhstan

Jan Felix Köbbing¹, Niels Thevs², Volker Beckmann¹, Sophie Hirscheimann³

1Ernst-Moritz-Arndt-University of Greifswald, Germany; ²ICRAF, Kyrgyzstan; ³Michael Succow Foundation for the Protection of Nature, Germany: N.Thevs@cgiar.org

### Spatio-temporal assessment of cropland degradation in the irrigated downstream areas in Uzbekistan

Olena Dubovyk¹, Gunter Menz¹, Elena Kan²

1University of Bonn, Germany; ²Urgench State University, Uzbekistan; odubovyk@uni-bonn.de

### Climate change impact on irrigation benefits in the Aral Sea basin and adaptation strategies

Maksud Bekchanov¹, Nodir Djanibekov², Anik Bhaduri³, Claudia Ringler⁴

¹IWMI, Sri Lanka; ²IAMO, Germany; ³University of Bonn, Germany; ⁴IFPRI, USA; m.bekchanov@cgiar.org

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<td>4:00pm - 5:30pm</td>
<td>F2: Climate change, food security and sustainable agriculture in China (III)</td>
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<tr>
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<td>Session Chair: Bettina Bluemling</td>
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<td>Farmers’ land use options to cope with climate induced water scarcity in Lijiang, China</td>
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<td>Hua Yang¹, Grace B. Villamor², Yufang Su¹³, Mingcheng Wang¹, Jianchu Xu¹³</td>
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<td>¹Chinese Academy of Sciences, Yunnan, China; ²University of Bonn, Germany; ³ICRAF-China, Yunnan, China; <a href="mailto:gracev@uni-bonn.de">gracev@uni-bonn.de</a></td>
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<td>Impact of extreme weather on maize yield in Shanxi, China</td>
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<td>Taoyuan Wei¹, Karianne de Bruin¹, Solveig Glomsrød¹, Tianyi Zhang²</td>
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<td>¹CICERO, Norway; ²Chinese Academy of Sciences, China; <a href="mailto:taoyuan.wei@cicero.uio.no">taoyuan.wei@cicero.uio.no</a></td>
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<td>Drought risk of tobacco production and the role of precipitation index insurance in Liangshan Prefecture, Sichuan</td>
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<td>Lisha Zhong, Dan Liu, Yuansheng Jiang</td>
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<td>Sichuan Agricultural University, China; <a href="mailto:357515347@qq.com">357515347@qq.com</a></td>
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<tr>
<td>5:30pm</td>
<td>End of conference day 2</td>
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<td>7:00pm</td>
<td>Conference dinner (Restaurant MahnS Chateau)</td>
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**Date:** Friday, 19/Jun/2015

**8:00am - 9:00am** Registration

**9:00am - 9:15am** Welcome address:

Gerlinde Sauer (German Agribusiness Alliance, Committee on Eastern European Economic Relations, Germany)

**9:15am - 10:45am** P3: Plenary session: Opportunities and challenges of climate-smart agriculture

Keynotes: Daniel Müller

Challenges and opportunities of climate-smart agriculture in transition and developing economies

Leslie Lipper (Food and Agriculture Organization of the United Nations (FAO), Italy)

Model-based assessments of climate-smart agriculture at the global scale

Hermann Lotze-Campen (Potsdam Institute for Climate Impact Research (PIK), Germany)

**10:45am - 11:15am** Coffee break

**11:15am - 1:15pm** P4: Moderated panel discussion: How to make agriculture more climate-smart?

Moderator:

Altons Balman (IAMO)

Discussants:

Jikun Huang (Chinese Academy of Sciences), Leslie Lipper (FAO), Hermann Lotze-Campen (PIK), Inna Mateleva (Svarog West Group), Liudmila Orlova (The National Movement for Conservation Agriculture), Georg Vierling (Südzucker International GmbH), Wolfgang Vogel (Farmers’ Association in Saxony)

**1:15pm** Closing of the conference: Daniel Müller

**1:30pm** Lunch break