




Eric Tielkes (Herausgeber)

## Tropentag 2012

Resilience of agricultural systems against crises

International Research on Food Security,  
Natural Resource Management and Rural  
Development



# Tropentag 2012






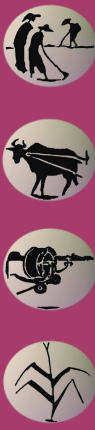
Resilience of agricultural  
systems against crises

## Book of abstracts

Organised by  
Georg-August Universität Göttingen  
and University of Kassel

September 19-21, 2012  
Göttingen, Germany

[www.tropentag.de](http://www.tropentag.de)



GEORG-AUGUST-UNIVERSITÄT  
GÖTTINGEN

UNIKASSEL  
VERSITÄT

<https://cuvillier.de/de/shop/publications/6173>

Copyright:

Cuvillier Verlag, Inhaberin Annette Jentsch-Cuvillier, Nonnenstieg 8, 37075 Göttingen,  
Germany

Telefon: +49 (0)551 54724-0, E-Mail: [info@cuvillier.de](mailto:info@cuvillier.de), Website: <https://cuvillier.de>



# Contents

	<b>Plenary speeches</b>	<b>9</b>
<b>I</b>	<b>Animals</b>	<b>13</b>
	1) Pastoralism and rangelands	15
	2) Animal breeding and health	37
	3) Monogastric production systems	57
	4) Ruminant husbandry systems	85
<b>II</b>	<b>Plants and Soils</b>	<b>101</b>
	1) Cropping systems and environment	103
	2) Crop biotic stresses (DPG session)	145
	3) Cropping systems to maintain soil quality and available soil moisture	173
	4) Mineral fertilisation and resilience of cropping systems	203
	5) Innovations in cropping systems	219
<b>III</b>	<b>Forestry</b>	<b>263</b>
	1) Forestry	265
	2) Agroforestry	303
<b>IV</b>	<b>Socioeconomics</b>	<b>323</b>
	1) High-value markets	325
	2) Innovation adoption and agricultural productivity	345
	3) Rural development	379
	4) Knowledge, learning and extension	407
	5) Food security and adaptation	427
<b>V</b>	<b>Engineering</b>	<b>449</b>
	1) Innovations in agricultural engineering	451
	2) Water and energy	459
	3) Post-harvest technology	471
	4) Food, health and nutrition	487
<b>VI</b>	<b>Modelling</b>	<b>501</b>
	1) Systems modelling	503



<b>VII Development Cooperation</b>	<b>543</b>
1) Soils and resilience (CIAT session)	545
2) Central issues on resilience of agricultural systems against crises (GIZ session)	555
3) Poetry route	559
<b>Index of Authors</b>	<b>561</b>
<b>Index of Keywords</b>	<b>575</b>