



## Zentrum für internationale Entwicklungs- und Umweltforschung (ZEU)

# Newsletter



### PROJECT NEWS

Summer School "Sustainable Energetics for Africa" in Cameroon .....	1
First Progress Meeting "The Mediterranean Hot-Spot" in Greece.....	2
Alternative futures – Land-use scenarios for a Georgian high- mountain landscape " .....	3
Representative market survey on the use of iodized salt in processed foods .....	3
Linking Agriculture and Nutrition for a healthy Diet .....	4

### FURTHER NEWS

Poster Session DAAD/DIE Workshop "Effective promotion of green innovation - New ways of interagency co-operation .....	5
Welcoming new colleagues and ZEU members .....	5

### UPCOMING EVENTS

#### Working Lunch

"Impact of commodity flows on nutrition and public health situation in small urban centres and their catchment area (ICONS)"

Nov. 15, 2017, 12:30-14:00h, room Ze-S3, Zeughaus

#### Antrittsvorlesung Dr. Svenja Falk

"Gut beraten? -Die politische Gestaltung der Digitalisierung"

Nov. 15, 2017, 18:00-20:00h, Seminarraum 315, Ludwigstr. 23 (Hauptgebäude)

#### Announcement:

New Year Reception 2018 including cooking event in the Lokal International  
17. January, 2018

#### Introductory Workshop to Intercultural Communication:

Developing Key Problem-Solving Skills for the International Workplace

March 5-6, 2018. Monday: 8:30 to 17:30h; Tuesday: 9:00 to 17:00h, Seminarraum 315, Ludwigstr. 23 (Hauptgebäude)

(see ZEU News website for details)

#### IMPRINT

##### Executive Board:

Prof. Dr. Lutz Breuer (spokesman)

Prof. Dr. Peter Winker

Prof. Dr. Dr. Annette Otte

##### EDITING

Dr. Matthias Höher

## Summer School “Sustainable Energetics for Africa (SE4A)” in Cameroon

Project responsible: Prof. Daniel Egbe (ANSOLE e.V.); Prof. Michael Düren (II. Physics Institute, ZEU)

Recently, the second Summer School coping with the topic of “Sustainable Energetics for Africa (SE4A)” was held in Cameroon. It was the first one, taking place at two different venues. The first part was held in Yaoundé in cooperation with Pk Fokam Institute of Excellence, followed by a second session in Buea at Buea University.

Initiated by ANSOLE e.V, the multinational summer school was organized in cooperation with the “Centre of International Developmental and Environmental Research (ZEU)” at the Justus-Liebig-University Giessen and further partners. Funding was generously provided by VolkswagenStiftung.

The first part in Yaoundé focused on the theoretical part of the school. Lectures, presented by different scientists from Africa, Europe and the US, were held. Firstly, Prof. Dieter Meissner opened the Summer School, giving an overview on sustainable energetics. Followed by various lectures related to different aspects of renewable energies, several focused on possible solutions to enhance sustainable energy sources in rural areas, especially in Africa. Besides that, the role of plastics in the transformation of the energy system, discussed by Prof. Reinhold Lang, gave another input to the discussion of renewable energies. Furthermore not only the potential, but also the challenges of renewable energy supply, outlined by Prof. Dr. Rainer Waldhardt from Justus Liebig University, Giessen, were made a subject of discussion. With interesting contributions from Prof. Veronika Wittmann about the greening of world societies and from Maryam Abdi who talked about

Theatre for Development, inputs from different scientific fields additionally filled the conference. Students, participating in the school, also had the chance to present their recent work during a short poster presentation. The best three posters were rewarded by an elected expert team. This summer schools winner were three young female scientists from Africa who convinced the jury with the presentation of their current research.

After having the chance to gather a wide range of theoretical input on sustainable energetics, the second session, held in Buea, focused on the practical part of the school. During practical experiments, organised by the Faculty of Engineering and Technology from the University of Buea, different laboratory sessions at indoor and outdoor renewable energy laboratories were offered. Students were organised in small groups, allowing each group to undertake every single experiment. In the meantime lecturers were gathered together for discussion and feedback rounds.

The Summer School smoothly closed with the visit of some touristic sites in and around Buea, such as the Tole Tea Estate in Limbe and finally ended with a closing ceremony celebrated together.

## First Progress Meeting “*The Mediterranean Hot-Spot: Challenges and Responses in a Changing Environment*”, October 11-13, 2017 –Thessaloniki, Greece

Project responsible: Prof. Jürg Luterbacher (Institute of Geography, ZEU)

### Thematic Workshops & Second Dissemination Event

Bridging disciplines to address the challenges that the Mediterranean changing environment poses can provide the necessary scientific support and coordination to existing infrastructures. Interdisciplinary cooperation between scientists, stakeholders, policy makers and the general public has the potential to deliver consolidated information and knowledge for long term strategic planning on adaptation and mitigation to climate and environmental change.

Against this background from October 11 to 13 the first progress meeting and second dissemination event took place at the AUTH in Thessaloniki. During the first progress meeting the project actions that have been completed so far as well as the preparation and implementation of upcoming actions were discussed. Thematic workshops provided a platform for the project members and affiliated scientists to present their research activities and discuss options for collaborations.

The event was addressed by the German Consul General of the Federal Republic of Germany in Thessaloniki, Mr. Walter Stechel, the Vice Rector for Academic and Student Affairs Prof. Ariadni Stogiannidou, the Dean of the Faculty of Sciences Prof. Chariton-Sarl Chintiroglou, the AUTH partner Schools Directors and the JLU project coordinator Prof. Jürg Luterbacher. In addition, invited high-ranking scientist contributed to the discussion and development of potential solutions. Among them was Prof. Christos Zerefos from the Research Center for Atmospheric Physics and Climatology of the Academy of Athens. He gave a talk on “Lessons learned downscaling to the Eastern Mediterranean hotspot”. Furthermore, Prof. Dimitris Psaltopoulos (Department of Economics, University of Patras) provided insights on challenges for agricultural and rural policy in Europe. Prof. Sotirios Tsiouris (School of Agriculture, AUTH) focused on effects of climate change on agriculture. In addition, the project team was happy to welcome as a speaker Dr. Haris Kontoes

from the Institute for Astronomy, Astrophysics, Space Applications and Remote Sensing of the National Observatory of Athens. Finally a panel debate together with external experts allowed for further discussions.

### Joint AUTH-JLU excursion to Athens and Peloponnese from September 27 to October 4, 2017

The joint AUTH-JLU excursion to Athens and the Peloponnese covered the following topics: physical geography, volcanoes, geomorphology, paleo-climateology, - trees, caves - climate, ecosystem impacts, water availability and management, ocean circulation, history, archaeology. Students from both universities had the opportunity to join the excursion and broaden their knowledge in the above mentioned fields. Active participation of the students, presentations and reports contributed to this objective. In addition, international experts were invited to the excursion in the different visiting areas. The excursion is in collaboration with the UNESCO Chair on Natural Hazards in the Geosphere, the Hydrosphere and the Atmosphere, the Navarino Environmental Observatory, the University of Stockholm, the Bert Bolin centre and the Academy of Athens.

### Publications

Incarbona A, Martrat B, Mortyn GP, Sprovieri M, Ziveri P, Gogou A, Jordà G, Xoplaki E, Luterbacher J, Langone L, Marino G, Rodríguez-Sanz L, Triantaphyllou M, Di Stefano E., Grimalt J O, Tranchida G, Sprovieri R, & S Mazzola: Mediterranean circulation perturbations over the last five centuries: Relevance to past Eastern Mediterranean Transient-type events, *Nature, Scientific Reports*  
<https://DOI: 10.1038/srep29623>

Yuan N, Xoplaki E, Zhu C & J Luterbacher: A novel way to detect correlations on multi-time scales, with temporal evolution and for multi-variables, *Nature, Scientific Reports*  
<https://DOI: 10.1038/srep27707>

## Alternative futures – Land-use scenarios for a Georgian high-mountain landscape (AMIES II)

Project responsible: Prof. Annette Otte (ILR & ZEU)

How does the landscape change, if...? This very question was discussed within the interdisciplinary research project AMIES II (Scenario development for sustainable land use in the Greater Caucasus, Georgia) by Georgian and German scientists from the fields of landscape ecology, soil science, vegetation ecology and socio economy throughout the last three years. The main aim of the AMIES II project: to use rule-based, normative land-use scenarios to support sustainable development and decision-making in the Kazbegi region. After intensive data collection in 2014 and 2015, including vegetation composition, grassland yield, soil quality and focus-group discussions, scenarios based on increased cattle fattening and additional dairy cows were developed and mapped. The most interesting result:

the high-mountain landscape can carry additional cattle, even under strong ecological restrictions and has thus a high potential for meat and dairy production. The normative land-use scenarios were presented and discussed during the AMIES II final meeting in Tbilisi, Georgia (28th-29th September, 2017) together with Georgian and German policy makers and development agencies.

### Publications

Magiera A, Feilhauer H, Waldhardt R, Wiesmair M & A. Otte: Modelling biomass of mountainous grasslands by including a species composition map  
<https://doi.org/10.1016/j.ecolind.2017.02.039>  
[amies-net.org](http://amies-net.org)

## Representative market survey on the use of iodized salt in processed foods

Project responsible: Prof. Roland Herrmann

Due to the sudden withdrawal of the PhD student Anna Märker the project team was re-configured by four motivated MSc students:

Anna Pfisterer's participation in the project started in spring 2017 when she supported the project in terms of data collection in/at one of the four study centres, where the observation of the food retailing stores took place. Henceforward, she started working as a student assistant at ZEU and supported the project via data preparation and analysis. In order to achieve her master's degree in food economics, she is currently working on her thesis by using the collected data. The aim of the thesis is to elaborate and analyse the data concerning the share of iodized salt usage in processed foods, because no reliable data exists.

After Carina Weitzel has finished her master's degree in Food Economics, she started working on the project concerned with data correction, evaluation and analysis.

Christin Dudenhöfer finished her master's degree in Food Economics at JLU Gießen and is

currently working on the project. The aim of my particular research is to find out the magnitude as well as the motivations and barriers for the use of iodized salt in the manufacturing meat processing sector. Her motivation to participate in this project is to gain more experience in the field of market research, especially in qualitative research.

In order to achieve her Bachelors degree in nutritional science Laura Busl is writing her thesis about the salt market in Germany

### Publications

Diana Fast, Irmgard Jordan, Roland Herrmann, Eleonore Heil (2017) „Wenn Salz, dann Jodsatz“ – Handelt das Bäckerhandwerk nach diesem Grundsatz?

Anna Pfisterer, Irmgard Jordan, Carina Weitzel, Roland Herrmann (2017) Jodsatzverwendung in verarbeiteten Lebensmitteln: Eine statistische Markterhebung im Lebensmitteleinzelhandel

## Linking Agriculture and Nutrition for a healthy Diet

Project responsible: Prof. Ernst-August Nuppenau

### Vorträge

54. Wissenschaftlicher Kongress der DGE: 1.-3. März 2017 in Kiel:

**HealthyLAND:** Irmgard Jordan, Anna Röhlig, Eleonore Heil (2017) *Role of video recording in identifying challenges in food preparation and feeding in Uganda*

**ZEU:** M. Gracia Glas, Eleonore Heil & Irmgard Jordan (2017) *Determinants for malnutrition in Nadunget and Namalu sub-counties in Karamoja, Northern Uganda*

### Poster

3rd International Congress Hidden Hunger 2017 - 20-22.3.2017

Marie Kamrad, Anna Röhlig, Jan Welsch, Ernst-August Nuppenau, Irmgard Jordan (2017) Diet adequacy of male Ugandan farmers – a cross-sectional case study in Kapchorwa District

Tropentag 2017 – September 20 - 22, 2017 in Bonn

Marie Kamrad, Anna Röhlig, M. Gracia Glas, Johnny Mugisha, Ernst-August Nuppenau, Irmgard Jordan (2017) Diet Adequacy of Male Ugandan Farmers – A Cross-Sectional Case Study in Kapchorwa District of Uganda;

<http://www.tropentag.de/abstract.php?code=gfAqqlf4>

Erick Maina, Samwel Mbugua, Lydia Waswa, Michael Krawinkel, Ernst-August Nuppenau, Irmgard Jordan, Elizabeth Kamau (2017) Factors Influencing the

Nutritional Status of Women of Reproductive Age in Teso South Sub-County, Kenya;

<http://www.tropentag.de/abstract.php?code=XgdZQpm0>

Eingereichte Abstrakts für 55. Wissenschaftlicher Kongress der DGE, 2018

### HealthyLAND:

Irmgard Jordan et al. (2017) Poor dietary intake of male farmers hinders sustainable intensification of food production - A case study from Kapchorwa District, Uganda

M. Gracia Glas et al. (2017) Dietary diversity and nutritional status of small holder women farmers. A comparison between three East-African countries.

Anna Röhlig et al. (2017) Impact of community-based nutrition education intervention on child dietary diversity in Kapchorwa District, Uganda

### Angenommene Manuskripte

Buchbeiträge in Folge von der Hidden Hunger Konferenz und dem DAAD Alumni Seminar:

In press:

Pavlina Miteva, Erika Ruano, Irmgard Jordan (2017) Latin America and the Caribbean: Strategies to fight Hidden Hunger, *World Review of Nutrition and Dietetics*, DOI: 484466

Chemed A, Bereket Z, Abdel-Azin N, Kabbar R, Ksentini I, Irmgard Jordan (2017) Strategies to fight Hidden Hunger in Ethiopia, Egypt, Sudan and Tunisia, *World Review of Nutrition and Dietetics*, DOI: 484466

[healthyland.info](http://healthyland.info)

## Poster Session DAAD/DIE Workshop “Effective promotion of green innovation - New ways of interagency co-operation

Michael Düren: Understanding the Bigger Energy

Picture - DESERTEC and beyond

23 – 25 October 2017 in Bonn, Germany

## Welcoming new colleagues and ZEU members

We are proud to announce that we have enlarged our team:

Prof. Rolf-Alexander Düring, Head of laboratory at the Department of Soil Science and Soil Conservation has a specific interest in the topics environmental chemistry, fate and analysis of pollutants in soil-water-plant systems and ecotoxicology with a regional focus on the Caucasus region.

[www.uni-giessen.de/faculties/f09/institutes/soil-sciences/soil/staff/prof-dr-rolf-alexander-during](http://www.uni-giessen.de/faculties/f09/institutes/soil-sciences/soil/staff/prof-dr-rolf-alexander-during)

Dr. Eefje Aarnoudse started her employment at ZEU four weeks ago. She is an expert on agricultural development, food security, water management and environmental policy and will support our team in developing new project applications as well as teaching in the MSc Transition Management.

[www.uni-giessen.de/fbz/zentren/zeu/Team/coordinators/eefje\\_aarnoudse](http://www.uni-giessen.de/fbz/zentren/zeu/Team/coordinators/eefje_aarnoudse)

Stella Dafka (PhD) became the new coordinator in the DAAD project “The Mediterranean Hot-Spot”, proving her strength in organisational issues and indigenous knowledge.

[www.uni-giessen.de/faculties/f07/copy\\_of\\_geography/sections/climate/staff](http://www.uni-giessen.de/faculties/f07/copy_of_geography/sections/climate/staff)