



BALEWARE 2016: Sustainable Energy and Clean Water

11-13 Dec 2016 NM-AIST, Arusha Tanzania



Bridging Africa, Latin America and Europe on Water and Renewable Energies Applications (BALEWARE 2016)

Conference theme: Sustainable Energy and Clean Water

Website: www.baleware.org

Contact email: baleware2016@baleware.org

Conference location: Nelson Mandela African Institution of Science and Technology (NM- AIST), Arusha, Tanzania

Conference dates: 11-13 December 2016

Deadlines:

Abstract submission (*extended!*): **15 September 2016**

Notification of abstract acceptance and type of presentation (oral or poster): **30 September 2016**

Early bird registration deadline: **15 October 2016**

Aims and scope: Africa and Latin America share great challenges concerning reliable and affordable supply of clean water and sustainable energy. Addressing these challenges can be done most effectively if academia, industry, governments and non-governmental organizations from different regions join forces. This motivates the establishment of a platform to be launched during the BALEWARE 2016 conference, where stakeholders from Africa, Latin America and Europe can interact.

The BALEWARE 2016 conference will focus on scientific, technical and organizational innovations on water purification and clean water supply, innovations on sustainable energy generation and distributions, and innovation that combine both areas challenges. It is expected to include training sessions for young researchers, academic research presentations, panel discussions for policy makers and non-governmental organizations, table top presentation demonstrating industrial innovations and a match-making session. Field visits to relevant projects or companies are also foreseen.

Initiated on the 29th of May 2015 at the Federal University of Parana, Curitiba Brazil, by Daniel A. M. Egbe, the coordinator of the African Network for Solar Energy (www.ansole.org), BALEWARE is a follow up of the EU funded project NMP-DeLA on Deployment of Nanotechnology, Materials and Production Technologies for Health, Water and Energy in Latin America (www.nmpdela.eu). As such, BALEWARE will promote joint initiatives and research proposals on Energy and Water for succeeding in the incoming public funding such as Horizon 2020 and any potential private funding (such as those open by different kind of private or bank foundations).

Target audiences: We welcome participation of researchers from Africa, Latin America and Europe, policy makers, industry manufacturing relevant systems as well as African start-ups developing technological solutions, NGOs and in particular students.





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CALL FOR PAPERS



We invite oral and poster presentations on technological, economic and societal aspects of innovative solutions for African and Latin American communities in the field of **sustainable energy and clean water**. Papers discussing results or strategies for international cooperation involving African, Latin American and European partners are especially welcome.

CALL FOR YOUNG SCIENTISTS AND ENTREPRENEURS

BALEWARE recognizes the importance of engaging and including young scientists and entrepreneurs in addressing global challenges in the energy and water sector. We invite young scientists and entrepreneurs to participate in the conference to showcase their projects and ideas. 10 scientists and entrepreneurs will be selected to participate in the planned **Science Slam Competition**.

Criteria for applying

- Applicants should not be older than 35 years and be based in Africa, Latin America or the EU
- Applicants will be evaluated on the soundness and application of their business initiative/research (bare concept ideas will not be considered)
- Business/Research that also demonstrates a sustainable environmental and socio-economic dimension will be favoured

How to apply

- The application for the slam should be submitted by e-mail to baleware2016@baleware.org.
- Researchers should follow the BALEWARE 2016 abstract template but should indicate at the bottom if they wish to be considered for the science slam
- Entrepreneurs should write a short summary (250-300 words; in English) of the work you are doing as a response to a specific energy or water related topic. If available, send us links to your projects. Include a CV (resume) in English with references.

Topics include but are not limited to:

A- Drinking Water Treatment

- Using renewable energies and/or conventional processes
- Solar Disinfection
- Solar photocatalytic processes
- Nanomaterials in drinking water treatment

B- Waste-Water & Solid Waste Treatments

- Using renewable energies and/or conventional processes
- Wetlands & lagoons treatment
- Energy from wastes
- Other techniques

C-Water Desalination





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- Using renewable energies and/or conventional processes
- Using nanomaterials
- Other techniques



D- Solar Energy and their Applications in Agro and Food Industry

E – Renewable Energies Use in other Industries and in Daily Life.

F – Sustainable Communities

G- Societal Aspects

- Policies stimulating deployment of sustainable energy and clean water
- Innovation studies and market analysis for sustainable energy and clean water
- Environmental regulations covering sustainable energy and clean water
- Communities-driven innovations
- Technology transfer and adaptation in diverse social contexts
- Efficient approach on (public) education, training and awareness raising

Company Presentation, Exhibition and Promotion

The scope of the conference targets practical solutions to real world problems in the fields of sustainable energy and clean water in Africa and Latin America. Therefore, we welcome table top presentations, information flyers included in the handouts or presentations in the abstract booklet presenting such solutions from companies and research organizations from Europe, Africa, Latin America and elsewhere. The fees for company presentation range from 300€ to 600€ depending on the level of presentation. This is valid for companies and research organizations which are not sponsors. Please contact the ANSOLE Coordinator for any arrangement (daniel.egbe@baleware.org / daniel.egbe@ansole.org)

Preliminary Programme

Sunday 11 December 2016: Arrival of participants

14.00 – 18.00: Opening session on economic and societal aspects

18.00-20.00: Welcome reception, visiting table top presentations

Monday 12 December 2016:

9.00-12.00: Session on water solutions

12.00-14.00: Lunch / poster session / visit table top presentations / brokerage

14.00-17.00: Session on energy solutions

17.00-18.00: Poster session / visit table top presentations / brokerage

20.00 Conference dinner

Tuesday 13 December 2016:

9.00-12.00: Launch of BALEWARE platform, parallel sessions on roundtable discussions about strategic agenda





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12.00-13.00: Closing session

13.00-14.00: Lunch

14.00-18.00: Excursions



Registration fees

Type of participant*	Before deadline	After deadline
Non-African/ non-Latin American companies participant	350 Euro	450 Euro
Africa-/Latin America-based companies participant	250 Euro	350 Euro
Non-African/non- Latin American academic or NGO	270 Euro	320 Euro
African/Latin American academic or NGO	180 Euro	200 Euro
Active ANSOLE member (non-African/non-Latin American)**	150 Euro	180 Euro
Active ANSOLE member (African/ Latin American)*	100 Euro	120 Euro
African/ Latin American student	120 Euro	150 Euro
African/Latin American student (active ANSOLE member)*	70 Euro	100 Euro
Tabletop presentation	1000 Euro	1100 Euro

* All accompanying persons pay 25% less

**active members are those who support ANSOLE by paying the yearly due of 20 € or 30€.

Some African and Latin American students and researchers will be partially or fully supported to attend the event if they submit their filled registration form and abstract together with their CV and a letter of motivation to baleware2016@baleware.org before the deadline. Applications will be granted on a first come, first served basis. While the organizers are willing to search for sponsorship for travel and subsistence, this cannot be guaranteed and so the organizers would be grateful if each participant can support any part of their travel and accommodation costs. This will enable a high number of participants. Please transfer your registration fee to:

Name of the bank: Sparkasse Jena-SHK, **Name of recipient:** ANSOLE e.V., **IBAN:** DE52 8305 3030 0018 0256 68, **BIC/SWIFT:** HELADEF1JEN, **Reference:** BALEWARE 2016_Name of Participant

International Organising Committee

- Prof. Maria Teresa Alarcon Herrera, Centro de Investigacion en Materiales Avanzados, Mexico
- Prof. Daniel A. M. Egbe, ANSOLE Coordinator, Johannes Kepler University Linz, Austria & ANSOLE e.V. Jena, Germany (**Chairperson**)
- Prof. Jan Hofman, Director of Water Innovation and Research Centre, University of Bath UK
- Prof. Angeles López Agüera, Chairperson UNESCO-CLRLA. Sustainable Energy Applications Group. Facultad de Física. University of Santiago de Compostela, Spain
- Dr. Ineke Malsch, Malsch TechnoValuation, Utrecht, The Netherlands (**Co-Chairperson**)
- Mr. Leonardo Piccinetti, CEO of REDINN, Italy
- Dr. Kambiz Ghawami, Chairman of World University Service e.V., Wiesbaden, Germany
- Prof. Wim Sinke, Professor Photovoltaic Energy Conversion, Van der Waals - Zeeman Institute, Institute of Physics, Faculty of Science, University of Amsterdam, The Netherlands
- Prof. Reinhold W. Lang, Director of the Institute of Polymeric Materials and Testing Johannes Kepler University Linz, Austria
- Prof. Karoli Njau, Nelson Mandela African Institution of Science and Technology (NM-AIST), Arusha Tanzania
- Dr Revocatus Machunda, Senior Lecturer, NM-AIST, Arusha Tanzania
- Prof. Noela Invernizzi, Latin American Network Nanotechnology and Society, Federal University of Parana, Curitiba, Brazil





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- Dr. Arouna Darga, University of Pierre and Marie Curie, France
- Ms Eva Kagiri-Kalanzi, Senior Planning Officer FinCEAL, Finnish University Partnership for International Development (UniPID), University of Jyväskylä, Finland

Local Organising Committee

- Prof. Karoli Njau, NM-AIST, Arusha Tanzania (**Chairperson**)
- Dr Revocatus Machunda, NM-AIST, Arusha Tanzania (**Vice Chairperson**)
- Prof. Eugene Park, NM-AIST, Arusha Tanzania
- Dr Sameer Hameer, NM-AIST, Arusha Tanzania
- Dr. Askwar Hilonga, NM-AIST, Arusha Tanzania
- Mr Abdallah Harold Mosha, Ministry of Agriculture, Food Security and Cooperation, Dar Es Salam, Tanzania
- Mr Tallam Kibona, Mkwawa University College of Education, Mkwama, Tanzania

Scientific Committee

- Prof. Maria Teresa Alarcon Herrera, Centro de Investigacion en Materiales Avanzados, Mexico
- Prof. Emanuela Colombo, Politecnico di Milano, Milan, Italy
- Prof. Angeles López Agüera, Chairman of the Unesco Special Committee for Sustainable Communities Development, University of Santiago de Compostela, Spain
- Dr. Arouna Darga, University of Pierre and Marie Curie, France
- Prof. Aniekan Edet, University of Calabar, Nigeria
- Prof. Daniel A. M. Egbe, ANSOLE Coordinator, Johannes Kepler University Linz, Austria
- Prof. Bertrand Fillon, Laboratory for Innovation in New Energy, Technologies and Nanomaterials, CEA, France
- Prof. Guillermo Foladori, co-Coordinator of RELANS, Universidad Autónoma de Zacatecas, México
- Dr Edgar Gonzales, Pontificia Universidad Javeriana, Colombia
- Prof. Jan Hofman, Director of Water Innovation and Research Centre, University of Bath, UK
- Prof. Noela Invernizzi, Latin American Network Nanotechnology and Society, Federal University of Parana, Curitiba, Brazil
- Dr. Revocatus Machunda, Nelson Mandela African Institution of Science and Technology (NM-AIST), Arusha, Tanzania
- Dr. Ineke Malsch, Malsch TechnoValuation, Netherlands
- Mr Niklas Hayek, Project Manager, Africa-EU Renewable Energy Cooperation Programme (RECP), Eschborn, Germany
- Dr. Daniel Martire, Universidad Nacional de la Plata, Argentina
- Dr. Eduardo Miró, Universidad Nacional del Litoral, Argentina
- Prof. Karoli Njau, NM-AIST, Arusha, Tanzania
- Prof. Chicgoua Noubactep, University of Göttingen, Germany
- Mr. Leonardo Piccinetti, CEO of REDINN, Italy
- Dr. Bernabé Rivas Quiroz, Universidad de Concepcion, Chile
- Prof. Celestino Rodrigues Ruivo, Instituto Superior de Engenharia, Universidade do Algarve, Campus da Penha, Faro, Portugal
- Prof. Wim C. Sinke, Program Development Manager, Solar Energy, ECN, Netherlands
- Dr. Daniel Yamegueu, International Institute of Water and Environmental Engineering (2iE), Ouagadougou, Burkina Faso





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- Prof. Abdellatif Zerga, Director of Pan African University Institute of Water and Energy Sciences (PAUWES), University of Tlemcen, Algeria
- Prof. Reinhold W. Lang, Head of Institute of Polymeric Materials and Testing (IPMT), Johannes Kepler University Linz, Austria
- Prof. Gerhard Meyer, Erfurt University of Applied Sciences, Erfurt, Germany
- Prof. Izael Pereira Da Silva, Director of Strathmore Energy Research Centre Strathmore University, Nairobi, Kenya
- Prof. Emmanuel Iwuoha, SARChI Chair in Nanotechnology, University of the Western Cape, Cape Town South Africa
- Prof. Franz-Bernd Frechen, Head of Department of Sanitary and Environmental Engineering (DESEE), University of Kassel, Germany
- Prof. Dominic Mazvimavi, Director of the Institute of Water and Environmental Sciences, University of the Western Cape, South Africa
- Prof. Dieter Meissner, Professor of Sustainable Energetics, University of Tallin, Estonia
- Prof. Dr. Pedro Serrano Rodriguez, Director Unidad de Arquitectura Extrema, Universidad Tecnica Federico Santa Maria, Valparaiso, Chile
- Prof. Yao Azoumah, Energy Engineering Professor, Director of SIREA-Afrique, Ouagadougou, Burkina Faso
- Prof. Alfa Oumar Dissa, Laboratoire LPCE, UFR/SEA, Université de Ouagadougou, Burkina Faso

Practical aspects

Working Language: English

Communication: There is WIFI internet connection at the NM-AIST Campus

Venue and Travel Information

Tanzania

Tanzania, officially the United Republic of Tanzania is a country in East Africa. Kilimanjaro, Africa's highest mountain, is in northeastern Tanzania. Tanzania's population of 44.9 million is highly diverse, composed of numerous ethnic, linguistic, and religious groups. Climate varies greatly within Tanzania. The hottest period extends between November and February (25–31 °C or 77.0–87.8 °F) while the coldest period occurs between May and August (15–20 °C or 59–68 °F). Annual temperature is 20 °C (68.0 °F). More about Tanzania can be found here: <http://en.wikipedia.org/wiki/Tanzania>

Arusha and Surroundings and NM- AIST

NM-AIST is one in a network of Pan-African Institutes of Science and Technology located across the continent. Its motto is ACADEMIA FOR SOCIETY AND INDUSTRY. The institute is closer to the Arusha City. Arusha is world-wide famous for being closer to Mount Kilimanjaro, Ngorongoro Crater, and Serengeti National Park – three of the seven natural wonders of the World. An optional visit to the parks can be organized





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for participants who are interested at their own cost. Please indicate your interest during registration.

Visa

For citizens of most countries an entry visa is obtained directly at entry airports and border crossings. The visa costs 50 US dollar. In case you need to apply for an entry visa in your home country and you need an invitation or acceptance letter for that purpose, please contact the organizing committee baleware2016@baleware.org and provide the following information:

Full name as in your passport:.....

Passport No:

Date of issue:

Place of issue:

Expiry Date:.....

Nationality:.....

(Acc person) Full name as in the passport:.....

Passport No:

Date of issue:

Place of issue:

Expiry Date:

Nationality:.....

Always have a ball pen ready with you on the plane as you will need it to fill in the entry form to be handed to the border police.

Vaccinations

It is imperative to be vaccinated against yellow fever at least ten days before travel date. Medication against malaria is also advisable prior to travelling. Vaccination cards are controlled at the airports and borders.

How to get to Arusha

There is a direct international flight to Kilimanjaro International Airport (KIA) which is about 40 Km from the Arusha City Center or a local flight to Arusha Airport. NM-AIST is 16 km East of Arusha City centre. You can access NM-AIST by road from the City Center or from KIA. When you land at KIA take a Taxi (USD 40) to NM-AIST.

Accommodation

There is a wide range of hotels in the city, such as The New Safari Hotel, Planet Lodge, Silver Palm, SG hotel with prices ranging from 50-80 USD per night. Hotels with prices above 80 USD per night are Mt Meru, The African Tulip, Kibo Palace, and The New Arusha Hotels.

Students and people with low budget can reside at the NM-AIST campus, which is around 25 USD per night.

CALL FOR SPONSORS

To contribute to the costs of the organization, publicity and invitations of keynote speakers and selected students, contributions by sponsors are very welcome, offering the following benefits:

- First hand insight into **new** industrial **innovations** in water purification, clean water supply and sustainable energy generation





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- **Networking** opportunities with sector experts from Africa, Europe and Latin America
 - **New collaboration** opportunities through the Joint Initiatives plan to be launched at the forum
 - **Match-making** with private sector, start-ups, researchers, policy makers and private sector
 - **Inspiring field visits** to some strategic projects and companies
 - Young Scientists and Entrepreneurs **Science Slam**

We welcome you to the launch of this initiative. Choose from any of our sponsorship offers and have an opportunity to market your institution.

Hybrid 1000€ – 1,999€

- Certificate of thanks
- Logo on the BALEWARE Conference page

Bronze 2000€ – 2,999€

- Certificate of thanks
- Logo on the BALEWARE Conference page
- Discount rate of 20% on the registration fees
- Showcase organization material on shared exhibition table

Silver 3,000 – 4,999€

- Certificate of thanks
- Logo on BALEWARE conference page
- Discount rate of 30% on the registration fees
- Own free exhibition space

Gold 5,000€ – 9,999€

- Certificate of thanks
- Logo on BALEWARE conference page
- Discount rate of 50% on the registration fees
- Own Free exhibition space
- 2-3 page article in ANSOLE e-magazine

Diamond 10,000 – 19,999€

- Certificate of thanks
- Logo on BALEWARE and ANSOLE websites for **2 months**
- Logo on the abstract booklet and banners
- NO registration fees for 2 organization representatives
- Own Free exhibition space
- 2-3 page article in ANSOLE e-magazine
- Acknowledgement during the opening and closing sessions and all publicity material of the event

Sustainable 20,000€ +

- Certificate of thanks
- Logo on BALEWARE and ANSOLE websites for **4 months**
- Logo on the abstract booklet and banners
- NO registration fees for 2 organization representatives
- Own Free exhibition space
- 2-3 page article in ANSOLE e-magazine
- Sponsors publicity material will be distributed as part of the conference handout
- Acknowledgement during the opening and closing sessions and all publicity material of the event





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Exhibition Opportunities Only (without the above sponsorship package)

Own Exhibition Table	2 people shared Exhibition Table
<ul style="list-style-type: none">• 50% Registration Fees• 200€ for exhibiting	<ul style="list-style-type: none">• 80% Registration Fees• 150€ for exhibiting

In order to obtain a donation receipt (Spendenquitting) for tax reduction purposes donors are requested to donate to:

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Contact: Prof. Daniel A. M. Egbe: Daniel.egbe@baleware.org

