



# March newsletter

ISSUE 7

MARCH 2019 ISSUE

## RESEARCH AND INNOVATION OFFICE

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## Tokyo 2020: Robots to feature at Olympic and Paralympic Games



Sporting events rely on having an army of volunteers to help them run smoothly but Tokyo 2020 will be a little different - robots will be helping out.

The Tokyo 2020 Robot Project will assist wheelchair users at the Olympic Stadium with robots carrying food and drink and providing event information.

Power assisted suits will also be used at venues and athlete villages.

The suits are designed to ease human workload and will be used to move heavy objects and for waste disposal.

"This project will not simply be about exhibiting robots but showcasing their

practical real-life deployment helping people," Hirohisa Hirukawa, leader of the project said.

"So there will be not only sports at the Tokyo 2020 Games, but some cool robots at work to look forward to as well." Robots have been used at Paralympic and Olympic competitions before but in a more limited capacity.

At Rio 2016, specialist robotic cameras captured still images above athletes in the badminton competition, while a robot was on display at the Paralympic opening ceremony.

Robots are also used to retrieve apparatus such as javelins and shot puts during field events,

while robotic sensors are used in NHL ice hockey games.

For more information, visit: <https://www.bbc.com/sport/olympics/47635649>

## Inside Story Headline

### International Women's Day

The United Nations have proclaimed March 8 the International Women's Day. It is also an opportunity to consider how to accelerate the 2030

Agenda, building momentum for the effective implementation of the Sustainable Development Goals, especially goal number 5: Achieve gender equality and empower all women and girls;



and number 4: Ensure inclusive and quality education for all and promote lifelong learning. It is a time to reflect on progress made, to call for change and to celebrate acts of courage and determination by ordinary women who have played an extraordinary role in the history of their countries and communities. The 2019 theme: Think equal, build smart, innovate for change focuses on innovative

ways in which we can advance gender equality and the empowerment of women, particularly in the areas of social protection systems, access to public services and sustainable infrastructure. What are your thoughts on this day and how it is impacting the societies we live in and the world at large? Email us at [resadmin@nust.ac.zw](mailto:resadmin@nust.ac.zw) with your opinion. For more information on the International Women's Day visit: <http://www.un.org/en/events/womensday/>



# ZJST

Science and Technology (NUST).

## Aims and Scope

The ZJST publishes science and technology research papers reporting significant experimental, theoretical and observational extensions of the scientific and technological phenomena. As from volume 11 (2016), the Zimbabwe Journal of Science and Technology (ZJST) will publish papers in

basic and applied sciences, engineering and technology, clinical and computing sciences.

## Manuscript Submission

Manuscripts submitted for publication must be written with conformity to the Format for Submissions provided on the official ZJST site. Please read the Instructions for Authors before submitting your manuscript. All manuscripts should be submitted as an email attachment and sent to [zjst@nust.ac.zw](mailto:zjst@nust.ac.zw).

## Call for Papers

Manuscripts are invited for publication in the Zimbabwe Journal of Science and Technology (ZJST), a peer reviewed journal published by the National University of

Quote of the day

# Aristotle

“Quality is not an act, it is a habit.

Source: [https://www.brainyquote.com/quotes/aristotle\\_379604](https://www.brainyquote.com/quotes/aristotle_379604)

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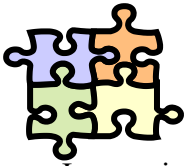
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RIO



International Conference on Green Energy and  
Environmental Technology (GEET-19)  
Paris, France  
24-26 July 2019  
Web address: <https://geet-19.com/>

5th International Congress on Water, Waste and Energy  
Management (WWEM-19)  
Paris, France  
22-24 July 2019  
Web address: <https://waterwaste-19.com/>

Abstract Submission Deadline: April 1st, 2019  
Early Bird Registration: April 30th, 2019

These Conferences are organized by academics and  
researchers belonging to different scientific areas of  
different European the University Complutense,  
University Carlos III, University of Extremadura and  
University of Las Palmas de Gran Canaria with the  
technical support of Sciknowledge European  
Conferences.

All accepted papers will be published in the Abstract  
E-book of the Conference and those communications  
considered of having enough quality can be further  
considered for publication in Environmental Science and  
Pollution Research (Springer).

#### TOPICS

1. Renewable Energies. Biomass. Biofuels / Biofuels  
Cells. Hybrid Energy Systems. Hydropower. Solar  
Energy. Photovoltaic Technology. Wind Energy.  
Hydrogen Fuel Cell Technology.
2. Energetic Installations. Energetic Project  
Management. Energy Policy.
3. Environmental Technologies. Ecosystem Restoration.  
Soil Restoration. Environmental Process Simulation.  
Environmental Remote Sensing Applications. GIS for  
Environmental Assessment. Air Pollution and Treat-  
ment. Ecosystem Assessment.
4. Water. Efficient use of water. Management of water.  
Water supply. Effluent treatment. Depuration. Water  
policy. Safety and Quality of Underground Water.

5. Waste. Municipal waste Management. Solid  
urban waste Management. Industrial Waste.  
Administration and corportation waste  
Management. Dangerous wastes Management.  
Agricultural waste Management. Treatment of  
wastewater and storm water. Recycling.  
Converting waste to Energy. Waste  
management policies. Ecologic design
6. Enviromental Impact Evaluation. Civil  
Engineering. Urbanism and Urban Planning  
Enviromental Project Management. Health and  
Environmental Product Design. Eco-Design.  
Life Cycle Analysis.

7. Enviromental Education. Human Ecology.  
Environmental Education. Ecology.

**SOCIAL/CULTURAL TOUR**  
Cruise on the Seine at nightfall.

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