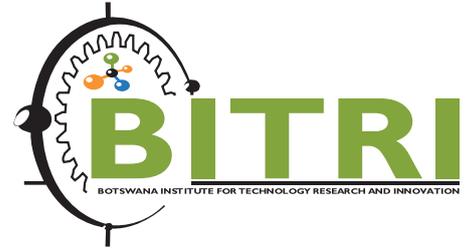


NEWSLETTER

2018 | Issue 5



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CEO'S FOREWORD



different, albeit important role in being appointed to the post of Minister of Health and Wellness.

At BITRI, our work is driven by engaging with stakeholders to create and deliver innovative solutions, hence, we always endeavour to go the extra mile to deliver on our Mandate. We constantly scan the environment and engage relevant stakeholders, to ensure that our research outputs have a significant and profound impact in society and the economy of Botswana and the wider globe. In fulfilling that aspect of our responsibilities to stakeholders, create platforms that enhance fostering of meaningful collaborations that would bring about the much desired technology solutions.

Welcome to another edition of the Botswana Institute for Technology Research and Innovation (BITRI) newsletter. We always look forward to sharing our achievements as well as challenges with all stakeholders, and it is through this platform, which we produce in hard copy and digital format, that we reach all concerned throughout the world.

I am honoured, on behalf of the BITRI Board of Directors, Management and staff, to congratulate the President of the Republic of Botswana, His Excellency Mokgweetsi E. K. Masisi for his ascendance to the highest office in the land. H.E. Masisi has always been supportive of our work, and we are hopeful that he will steer research and development (R&D) as well as other sectors of the economy to a position where they enhance the competitiveness of the country as well as have a palpable impact on the lives of ordinary citizens.

Similarly, we wish welcome the new Minister of Tertiary Education, Research Science and Technology, Honourable Ngaka Ngaka and are looking forward to his leadership in helping the organisation fulfill its Mandate. We express gratitude to our former Minister, Dr Alfred Madigele, who has assumed a

One way of enhancing the capacity for collaboration is to search nationally and internationally, for potential partners with similar values and objectives, and working with them on specific projects, mostly to the mutual benefit of our organisation and stakeholders as well as having the partner organisation reaping similar rewards. For this term, we formalised relationships with the University of Botswana and the Botswana Innovation Hub by signing Memorandums of Understanding. With these MoUs, we intend to leverage on each institutions' and collective capabilities and resources in order to best provide solutions for Botswana and beyond borders. We also work with authorities such Local Enterprise Authority (LEA) to help cultivate the spirit of entrepreneurship and help entrepreneurs develop comprehension of how the can benefit monetary-wise, from their innovations and inventions.

Our latest Public Seminar was aimed at inspiring entrepreneurship and thinking outside the box for solutions of the future, and we engaged the BITRI ICTAssociates as well as entrepreneurs under the various programs under BIH in an evening enlightening discussions and network session.

H.E. Masisi has always been supportive of our work, and we are hopeful that he will steer research and development (R&D) as well as other sectors of the economy to a position where they enhance the competitiveness of the country as well as have a palpable impact on the lives of ordinary citizens.

BITRI, importantly, acknowledges the potential that diverse workforces and institutions in the wider community has in bringing solutions from the ideas of the people who are affected. Our workforce represents diversity and effort to engage women in all levels of operation, and at this trajectory, bearing in mind that there is still a lot more to be done to achieve gender parity in Science, Technology, Engineering and Mathematics (STEM) fields. BITRI as the premier research institute has to set the tone. We celebrate the women at BITRI, and in society, and are cognisant that they rightly deserve to be part of a movement that provides solutions to challenges that affect them directly and otherwise.

We invite you to engage with this edition and we welcome your feedback through all the channels accessible and convenient for you as our important partners.

EDITORIAL TEAM

Chief Editor:

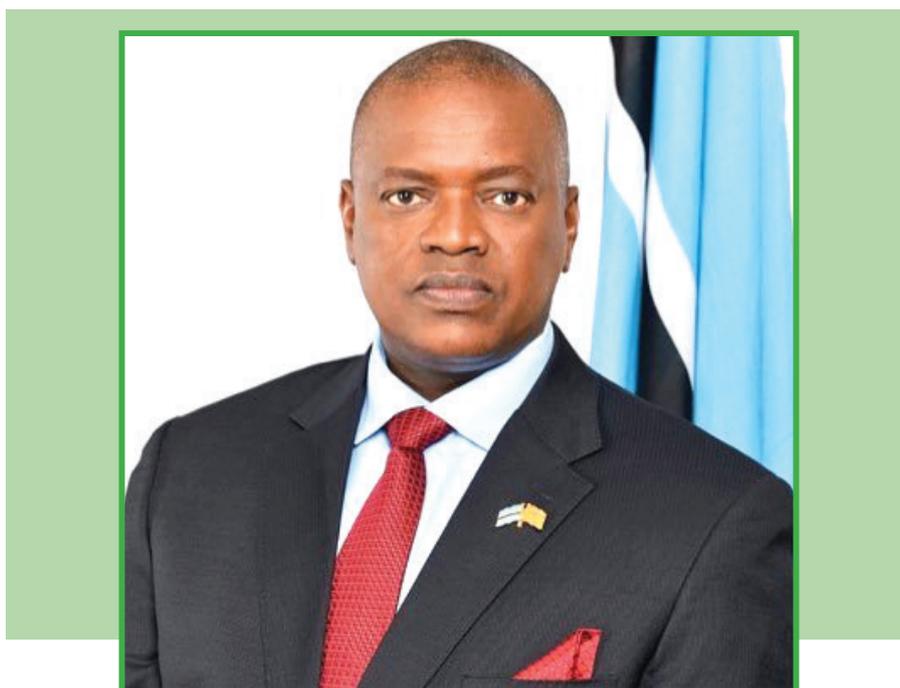
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Pictures: Frank Rakgomo

Design & Layout: Yelloegg



The Botswana Institute for Technology Research and Innovation (BITRI) heartily congratulates His Excellency **Mr Mokgweetsi Masisi** on ascending to the highest office in the land. We wish you wisdom and success in leading our beloved Nation.

Achieving Prosperity for All

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 BITRI

BITRI and UB Sign MoU



BITRI Chief Executive Officer, Professor Shedden Masupe and the Vice Chancellor, of the University of Botswana, Professor David Norris shaking hands after the signing of the MoU.

Botswana Institute and Technology Research and Innovation (BITRI) and the University of Botswana (UB) signed a Memorandum of Understanding (MoU) that will pave way for the institutions to collaborate on issues of strategic importance to both institutions and the wider society. The University of Botswana was represented by Vice Chancellor, Professor David Norris while BITRI Chief Executive Officer, Professor Shedden Masupe signed on behalf of the institution.

In his remarks, VC Norris expressed optimism about the MoU.

“Generally, local institutions tend to look outside the country to seek partnerships, while there are capable partners locally. And, therefore, this is really exciting for us that we are entering into this agreement with BITRI. There are three key things that we will be collaborating on, and these are the things that in most cases, would set apart successful universities from the less successful ones. The first is, research collaboration and joint projects; societal challenges are very complex, and usually,

they cannot be solved by one person or institution. So, when you collaborate and bring different expertise together, you are likely to bring effective solutions. The other issue, is graduate co-supervision, where we would have supervisors from UB and BITRI working together to supervise postgraduate students. We are breaking from the inclination of not promoting postgraduate education. There has been an over-emphasis on undergraduate education, and there is lot of competition in that arena. It is time for us to start promoting postgraduate education, and with co-supervision from Professors from BITRI and UB, we can achieve that goal. The third issue is student and staff exchange, which will help in capacity-building. We will have students being mentored by experts from both institutions, therefore, enhance their skills palette. I am, therefore, very excited that we will be signing the MoU that enables the issues elaborated on,” said VC Norris.

For his part, BITRI Chief Executive Officer, Professor Shedden Masupe acknowledge the tremendous contribution that UB has played in

the development of academia and the country’s socio-economic aspects.

“The signing of this MoU, is a formalization of a working relation that is already in progress on an operational level. To give you a context, there is a Ministerial strategic plan that speaks to resource sharing framework, and we are waiting for guidance on it being rolled out as a long term solution. As the resource pool of the country is limited, it is high time we look into issues of resource sharing. When we come to the second level regarding the MoU, the document will feed into the framework that the Ministry of Tertiary Education, Research Science and Technology is working on. There have been some collaborations prior to the conception of this MoU. We have been engaging in co-supervision on a voluntary-basis. And in regard to staff and student exchange; UB sends students to BITRI for industrial training and attachment for the duration of a semester. So, there is activity happening at that level. When it comes to research joint projects, we have a number of initiatives that are in progress. We recently submitted a joint grant proposal, and we are hopeful that it will succeed. We have had other project proposals that were submitted by researchers from both institutions. Normally, in addition to this type of MoU, we would also put in place project specific MoUs to govern specific projects. With that being said, we are excited about the prospects of this agreement,” explained Prof Masupe.

The ceremony was held at the UB Council Chamber, and amongst dignitaries present were BITRI Deputy Board Chairperson, Dr Ditshupo Maje, Director – Research and Partnerships, Dr Bathsheba Mbongwe, Legal Services Manager and Board Secretary, Ms Keamogetse Molefhe as well as UB Senior Management, including Deputy Vice Chancellors, Deans and Heads of Departments.



The audience paying attention to Nnamdi Oranye's presentation titled "Disrupting Africa - The Rise of African Innovation"

BITRI Public Seminar Stokes the Fires of Innovation

The Botswana Institute for Technology Research and Innovation (BITRI) hosted Nnamdi Oranye, a writer, columnist and media contributor on the subjects of innovation and entrepreneurship on 16 March, 2018. The title of Mr Oranye's presentation was "Disrupting Africa - The Rise of African Innovation," and was principally based on his book *Disrupting Africa: The Rise and Rise of African Innovation*. The book chronicles the lives of innovators and entrepreneurs changing the African landscape.

In her welcome remarks, BITRI Board Member, Ms Mercy Conlon highlighted that Africa, with the right mindset, has the power to offer solutions to its challenges using technology as the continent has skilled human capital to help it achieve its development goals. Ms Conlon also said that the Government of Botswana acknowledges that technology can be used to diversify the economy and turn Botswana into a knowledge-based economy. She said innovation

was essential for sustainable growth and economic development of the country and the African continent.

During his presentation, Mr Oranye pronounced Africa as a continent full of creativity, energy, and change, and attributed the capabilities and potential of mobile phone technology as a catalyst for current and future advancements in the entrepreneurial landscape.

"The African narrative is changing. Today's Africa is an exciting, creative continent, packed with amazing potential," emphasised Mr Oranye.

Mr Oranye gave examples of how modern technology and digital payment services have contributed towards shaping the new economy. He further added that the ecosystem is encouraging for innovators in Africa as more funding opportunities are available to help cultivate innovative ideas into products that have relevance to the lives of end users.

In giving a Vote of Thanks, the University of Botswana Dean of Faculty of Engineering, Professor Benjamin Bolaane said the seminar came at an opportune time when more institutions of higher learning are shifting to focus and develop their curriculum to include issues related to innovation. Prof Bolaane underlined the potential for innovation that is contextualised and tailored to solve specific problems in improving the human quality of life.

To ensure the message reaches the prime target market, BITRI invited ICTAssociates from all its campuses, entrepreneurs, BITRI staff some of whom work on projects meant to attain commercial value, academia from partner institutions, a selection of students from tertiary institutions, leadership of parastatals mandated with promoting entrepreneurship, Government departments in the innovation space as well as the private and government media houses.

BITRI Participates in the 2018 BIUST STEM Festival

BITRI participated in the annual Botswana International University of Science and Technology (BIUST) Science, Technology, Engineering and Mathematics (STEM) Festival from 16th to 19th April 2018 at the BIUST campus in Palapye.

The motivation for the theme was to help to cultivate links between science, engineering and technology to entrepreneurship and industry as Botswana strives to transform from a resource-based economy to knowledge-based one. The Festival featured panel discussion sessions with panelists from diverse backgrounds that included, but were not be limited to learners, academia, policy-makers, and entrepreneurs.

The BITRI Chief Executive Officer Professor Shedden Masupe made a Keynote Presentation and led the discussion on the festival's theme "STEM-Driven Economy: Transforming Research into Profitable Products and Services". In his presentation the CEO noted that Botswana should strive to towards a STEM-driven economy by transforming research into profitable products and services. Prof Masupe said the country can only begin to realise a STEM-driven economy if there is regulatory framework and an enhanced trust in local products, lamenting that the challenge at the moment, is that the country imports products and services where the same are available in the country. To illustrate his point, he gave an example of where consultancies are given to foreigners and then those foreigners sub-contracts Batswana to do the consultancy, emphasising that Botswana products are as good as those that are imported from elsewhere. Prof Masupe implored Batswana and residents to develop trust and buy Botswana-produced products and services.

On giving the Overview of the event, BIUST Vice Chancellor Prof. Otlogetswe Totolo said the festival provided a platform where innovations and inventions are acknowledged, celebrated and nurtured. He added that the festival also provides a forum for innovators and inventors, researchers and



BITRI CEO, Prof Masupe delivering the Keynote Presentation.

academia to showcase their inventions, concepts and final products. Prof Totolo said current and future conditions require lecturers and academics to move beyond demonstrating their knowledge through journal publications, an undertaking that provides little to no value to the economy, but rather, play an active role by developing curricula that serve the needs of the industry and doing research and developing solutions that address societal needs, especially the rural communities.

Botswana Power Corporation Chief Executive Officer, Dr Stefan Schwarzfischer, also augmented on the position made by Prof Masupe's presentation on creating linkages between what is taught in lecture rooms and laboratories, and the present and future skills needs of industries that STEM graduates have an impact on. Dr Botswana Power Corporation chief executive officer, Dr Stefan Schwarzfischer said students should not simply study so they could find employment, but also aspire to become entrepreneurs and create employment and enhance economy activity in the market and beyond.

BITRI exhibited some of the notable projects such as the Signcoach application that teaches Botswana sign language to aid communication between the deaf and the general public, the Morabaraba game, as well as the mhele game, which is still in the development stage.

This annual event presents a platform for learners (pre-tertiary and tertiary), researchers and inventors to showcase and celebrate their innovations and inventions, and serves to allow public institutions and industry to showcase their contribution to national socio-economic advancement, as well as, to buttress the relevance and criticality of STEM. The event was organised in partnership with BIUST, United Nations Educational Scientific, Cultural Organisation (UNESCO), the Ministry of Tertiary Education, Research, Science and Technology (MOTE), Ministry of Basic Education (MOBE) and the private sector.



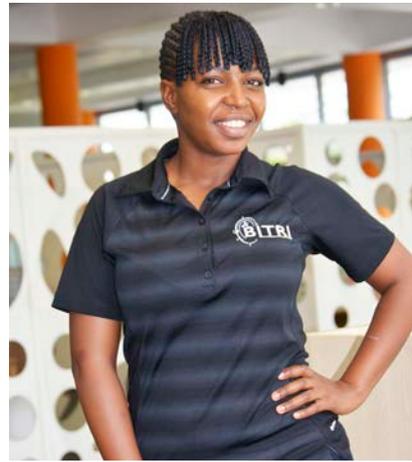
Lucia Otsetswe (green body warmer) and Selinah Baalafeng (white shirt) demonstrating the Signcoach application to customers

The month of March has been International Women's Month

At BITRI we recognise and acknowledge the role women play in the implementation of the Organisational Strategy and the fulfillment of the BITRI Mandate.

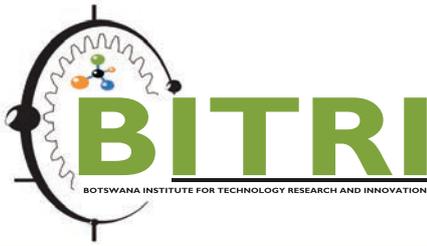
These women in various capacities enable us to deliver high quality technology solutions and help us achieve our Vision, To be the leading solutions provider that transforms lives".

We salute these women and appreciate their contribution in society.



celebrated internationally as





The BITRI Centre for Material Science

The Botswana Institute for Technology Research and Innovation (BITRI) is a parastatal under Botswana's Ministry of Tertiary Education, Research, Science and Technology, established with a Mandate to identify, develop and/or adapt appropriate technology solutions that provide sustainable innovative solutions through co-creation and collaboration in line with national priorities and needs of Botswana. The technologies will as much as possible maximize the use of local materials to ensure efficiency and affordability.

BITRI has established a world-class Centre for Material Science (CMS) with state of the art laboratory facilities, such as XPS, XRD, XRF, SEM, high resolution GC/MS, LC/MS and ICP/MS. The CMS has synthesis capabilities for metal nano particles, electrospun nano fibres and materials characterisation that will serve the research needs as well as the commercial materials analysis needs of Botswana and Africa across a variety of sectors.

BITRI invites all interested parties to use the facilities for a fee.

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BITRI Hosts IP Workshop for Francistown Entrepreneurs



BITRI Technology Transfer Officer, Mr Kesupemang Pitlagano presenting on Intellectual Property Rights.

The Research and Partnerships team conducted a workshop for small and Medium Enterprises (SMEs) in Francistown on 20th February. The aim of the address was to create awareness about BITRI as an organisation as well as sensitise the entrepreneurs on Intellectual Property Rights as well as BITRI technologies ready for adoption. In his Welcome Remarks, the Local Enterprise Authority (LEA) Incubator Manager, Ms Lovvy Moriah-Otimile said BITRI came at an opportune time as SMEs need guidance on IP issues.

BITRI Technology Transfer Officer Kesupemang Pitlagano while presenting on the topic, highlighted some of the BITRI projects ripe for commercialization, citing the Seding® light and KSB. The presentation also explained the modes of Technology Transfer utilized by BITRI, including Assignment, Licensing, establishment of spin off companies, as well as establishment of startup companies. Mr Pitlagano's presentation also elaborated on IP for the understanding of the participants. "There is a difference between an idea and

IP. An idea belongs in the public domain while IP is the creation of the mind, and would delineate a unique way in which the innovator or inventor intends to create a solution. A patent, which is essentially an exclusive right granted for an invention, copyright which defines the rights a creator of literacy or creative works have over their creations, as well as a trademark, which is a sign capable of distinguishing one business's product from others are the general categories of IP. With this in mind, you have to protect your creations and make sure you derive economic benefits from them," explained Mr Pitlagano.

"The benefits of Technology Transfer or commercialization, to you as entrepreneurs are that, amongst others, a strong IP culture has the potential to build local industry base, create employment, improve the local economy and also improve the quality of life of citizens and residents. You, as an entrepreneur stand to earn fair returns on resources spent developing a solution, ease of market penetration as well as enhancing a strong market position for your business," added Mr Pitlagano.

Ms Dimpho Bonolo from Companies and Intellectual Property Authority (CIPA) during her presentation titled "Other Intellectual Property Rights Relevant to SMEs", underlined the importance for IP rights to entrepreneurs and the relevant laws which enable enterprises to earn financial benefits from their inventions and innovations.

The workshop was organized by BITRI in collaboration with LEA and CIPA and other similar gatherings will follow in other parts of the country. BITRI was represented by the Technology Transfer Officer, Kesupemang Pitlagano and Communications Officer, Frank Rakgomo.



A group photo of the workshop participants.

BITRI Open for Collaborations



About BITRI

Botswana Institute for Technology Research and Innovation (BITRI) is a parastatal under the Ministry of Tertiary Education, Research and Technology established to identify, develop and/or adapt appropriate technology solutions that provide sustainable innovative solutions through co-creation and collaboration in line with national priorities and needs of Botswana.

The Mandate of BITRI is to conduct needs-based research and development in focused areas of national interest, and to deliver high standard technology solutions that maximise the beneficiation of local resources, through both institutional and collaborative programmes, to effectively and affordably address current and anticipated needs for sustainable socio-economic development.

BITRI is situated at Maranyane House in Gaborone, Botswana. It has other campuses in Gaborone, Kanye as well as Palapye.

The overall functions of BITRI, therefore, are as follows:

- Undertake research, identify, develop and/or adapt appropriate technology solutions that provides sustainable innovative solutions through co-creation and collaboration in line with national priorities and needs of Botswana.
- Develop partnerships and collaborations with other organisations, both nationally and internationally, to undertake joint research, to build research and development capacity, and to source funds and sponsorships
- Assess market needs to inform research and technology development, and measure socio-economic impacts of R&D outcomes on the target market
- Commercialise intellectual property obtained from the institution's research and development and promote

technology transfer through collaboration with specialised agencies and/or partners

- Promote and disseminate information on the institution's research and development activities and outcomes
- Advise government on, and provide necessary inputs, to strategies and policies on research, science and technology development
- Maintain a comprehensive data bank on research and technologies of interest to the organisation

a) The core research focus areas include:

- i) Technologies – Energy, Electronics and Communications as well as Information Systems and Technology
- ii) Natural Resources and Materials – Climate Change, Nanomaterials and Building Materials Science.

b) Can BITRI Collaborate with other Entities on Specific Research?

BITRI as a research institution, shall, cooperate with the best of local and international technology research and development institutions in areas that are relevant to BITRI to accelerate the development of its research capacity. BITRI or prospective partner organisations can initiate such partnerships, which mainly involve research including research collaboration, scholar exchanges, research materials exchanges, research training and technical assistance.

What is Selection Criteria for Research Partnership Activities

The criteria are detailed as follows:
Required Expertise - the research backgrounds of the BITRI applicants and collaborators have to be sufficient for the successful execution of the proposed collaboration activity(ies); routes to maximise activity impact been explored;

Impact - the impact of the proposed research in terms of potential publications, new IP and on stakeholders involved (i.e. industry, government or others working to develop, manage or regulate commercialisation in BITRI priority areas) - and have all reasonable routes to maximise activity impact been explored;

Alignment to BITRI Strategy – BITRI will primarily give consideration to activities that fall within the BITRI Strategic Plan and focus areas;

Value for Money – this applies, especially for activities initiated by overseas partners. The answer to the question "Is the benefit to BITRI likely to justify the net costs?" has to be to the affirmative before authorisation of activity can be considered;

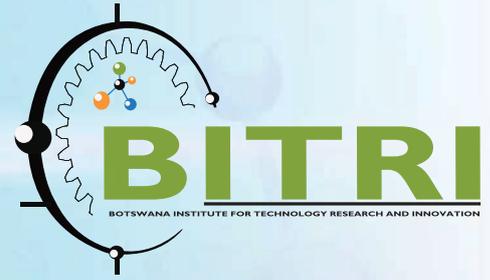
Uniqueness - Could this partnership take place in other countries (e.g. at a lower cost to get synergy with other projects);

Funding – the source of funding is considered, options available including funding from BITRI funds, BITRI money may be used to leverage other funding or funding available from external sources.

Partner Engagement - is the local or international partner willing and able to engage as required to deliver the desired outcome? Does this build on existing links or is it likely to facilitate strategic future links?;

Scope - Wider engagement/involvement of BITRI - what scope is there for this and how is it to be delivered?

Proposal Strength - the overall strength of the proposal.



MISSION

To conduct needs-based technology research that provides sustainable innovative solutions through co-creation and collaboration with local and international stakeholders.

VISION

To be the leading technology solutions provider that transforms lives.

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TO US
FOR YOU

VALUES

Teamwork

We operate and innovate through teamwork, and although we expect individual expertise, the team performance takes priority. The value of innovation through teamwork includes behaviours such as valuing contribution, accepting diversity, pro-active approach, collaboration and co-creation.

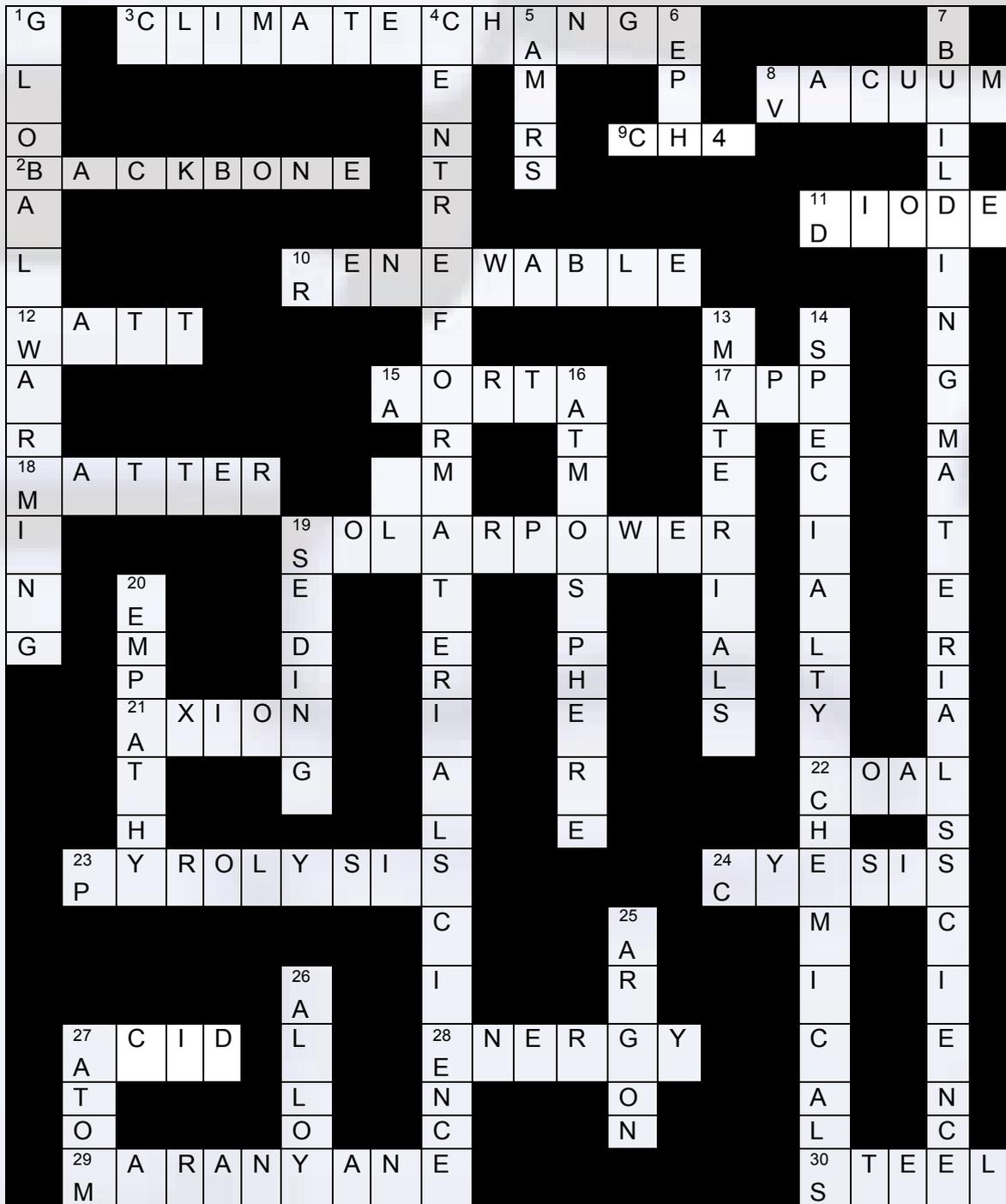
Excellence

We expect and encourage unquestionable technical and operational excellence in planning, executing, monitoring and continuously improving everything we do.

Empathy

We interact, operate and generate solutions that optimally balance the interest of all stakeholders.

Answers for the December 2017 Puzzle

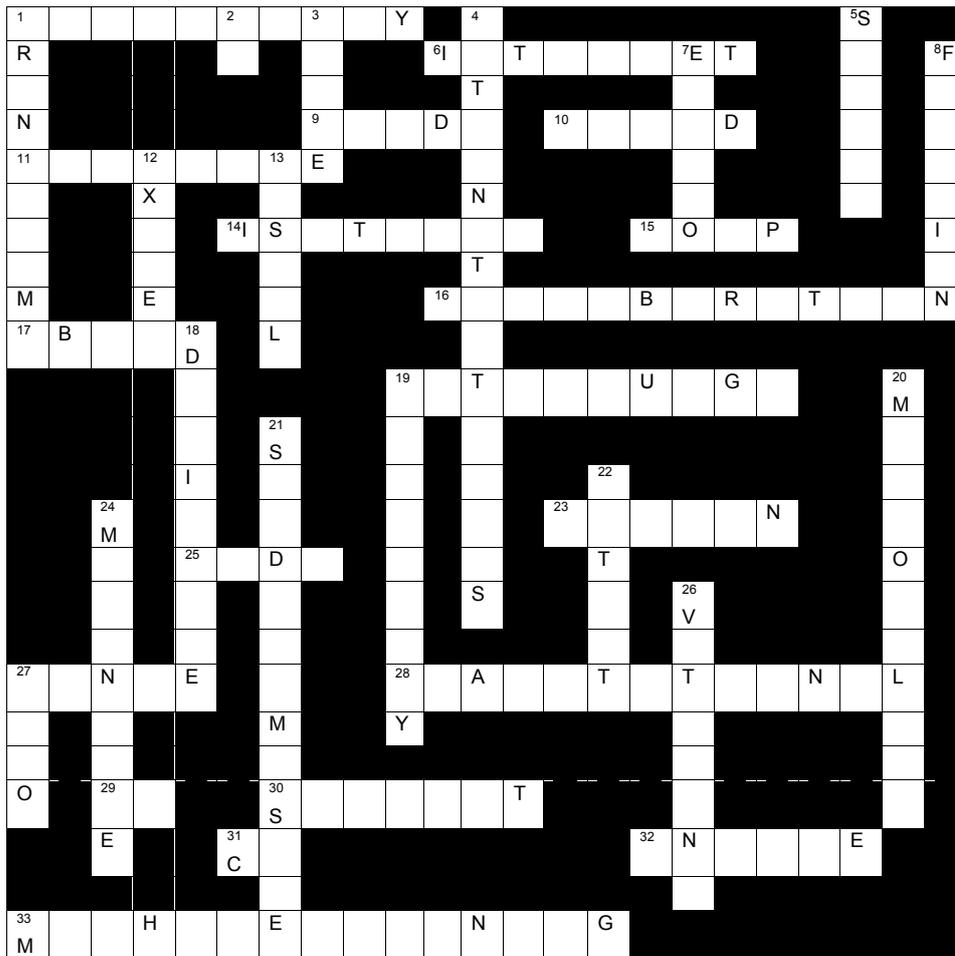


Events worth noting..

World Intellectual Property Day
 SARIMA Conference
 BITRI Public Seminar

Thursday 26 April 2018
 Tuesday 29 May - 01 June 2018
 Tuesday 19 June 2018

BITRI CROSSWORD PUZZLE

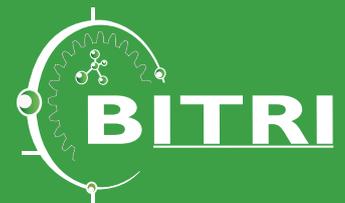


- 1.(ACROSS) _____ is the branch of science that deals with the nature, effects, and detection of poisons.
1. (DOWN) BITRI's Vision is to be the leading technology solutions provider that _____ lives.
2. The acronym for Operating System is _____.
3. The planet Mars is red because its surface material contains iron _____.
4. The interconnection via the Internet of computing devices embedded in everyday objects, enabling them to send and receive data is called _____.
5. The element with the symbol Ag is _____.
6. _____ is a short form of Interconnected Network.
7. _____ is a naturally occurring phenomenon characterized by the abnormal warming of sea surface temperature in the central and eastern equatorial Pacific Ocean, on average, it occurs every two to seven years and lasting up to eighteen months.
8. _____ is the resistance to motion of one object moving relative to another.
9. A _____ is a semiconductor device with two terminals, typically allowing the flow of current in one direction only.
10. Supersonic means going faster than the speed of _____.
11. A _____ is a distinct variation within a species of bacteria or virus or among immune cells of different individuals.
12. Water is made of two parts Hydrogen and one part _____.
13. The metric unit of pressure defined as 1 Newton per metre squared is _____.
14. _____ are atoms that have the same number of protons and electrons but different numbers of neutrons and, therefore, have different physical properties.
15. _____ stands for Voice over Internet Protocol.
16. The BITRI Mission statement reads "To conduct needs-based technology research that provides sustainable innovative solutions through co-creation and _____."
17. The _____ is a band of radio frequencies extending from 1550 to 5200 MHz.
18. The metric unit for length that is equal to one tenth of a metre is a _____.
19. (ACROSS) _____ is the branch of science and technology concerned with the properties of metals and their production and purification.
19. (DOWN) _____ is the scientific study of measurement.
20. _____ is the scientific study of the atmosphere that focuses on weather processes and forecasting.
21. The current Chief Executive Officer of BITRI is Prof _____.
22. A _____ is an exclusive right granted for an invention, which is a product or a process that provides, in general, a new way of doing something, or offers a new technical solution to a problem.
23. Steel is a metal alloy that is principally constitutes of iron and _____.
24. BITRI is situated at _____ House in Gaborone, Botswana.
25. An _____ skeleton is an internal support structure of an animal, composed of mineralized tissue.
26. _____ is also called ascorbic acid.
27. (ACROSS) BITRI has campuses in Gaborone, Palapye and _____.
27. (DOWN) _____ is a decimal unit prefix in the metric system denoting multiplication by one thousand (103).
28. Newton's Law of Universal Gravitation, used to explain _____ force, states that every massive particle in the universe attracts every other massive particle with a force which is directly proportional to the product of their masses and inversely proportional to the square of the distance between them.
29. The symbol for Neon is _____.
30. A _____ is a substance, ordinarily a liquid, in which other materials dissolve to form a solution.
31. The symbol for Copper is _____.
32. An _____ is a catalyst that regulates the rate at which chemical reactions proceed in living organisms without itself being altered in the process.
33. _____ is a field computer science that uses statistical techniques to give computer systems the ability to "learn" with data, without being explicitly programmed.

ANSWERS to be published on the next publication coming out on the end of June 2018

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BITRI invitse all interested parties to use the facilities for a fee.
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DIACORE
GABORONE
MARATHON

BITRI has fielded a 100 + team for the 2018 Gaborone Diacore Marathon

Catch us on Sunday 13th May 2018,

The Start and finish point is GICC Gaborone

