

VICE CHANCELLOR'S CHARGE UNVEILED



Vice Chancellor Eng. Q.C. Kanhukamwe

Vice Chancellor of the Harare Institute of Technology, Eng. Q.C. Kanhukamwe has summoned the collective strength of the University, and a re-dedication and re-commitment to the University's founding ideals, saying these are important elements towards the ultimate realisation of the institutional mandate, and to the successful implementation of the national policy imperatives-Education 5.0 and Industry 4.0.

Unveiling the Vice Chancellor's Charge to the University's academic and administrative leadership, Eng. Kanhukamwe said the onus was on the University to consolidate gains already made in innovation and commercialisation, as spelt out by the mandate, steering the University towards implementation of Education 5.0 and Industry 4.0, as directed by Government and by His Excellency and Chancellor, President Emmerson Mnangagwa.

For HIT, implementation of Education 5.0 is a consolidation of its unique mandate which from the outset, includes the tenets of innovation and commercialisation. Government, through the Ministry of Higher and Tertiary Education, Science and Technology Development last year unveiled the concept of University Education 5.0 which extends the role of the University from the traditional and globally acknowledge role of teaching, research and community service, to that of innovation and industrialisation. The latter two evidently hold the key for any nation's transformation and are an acknowledgement of the need for the University to play a much more practical role in transforming the lives of the people, through relevant inventions and technological adaptations.

Of note for the University is the establishment of the Technology Transfer, Licensing and Commercialisation Centre, (TTLCC) which is taking a lead role in innovation and the commercialisation of research outputs. The

construction of an innovation hub at the University campus is also near completion. Under these hubs, innovations will be further developed into tangible concepts; poised for commercialisation, which will accrue benefits to both the institution, the inventor,-while benefitting industry and society at large.

At his installation as the Second Chancellor of the Harare Institute of Technology on November 2, President Mnangagwa charged HIT to lead Industry 4.0,- advancing Zimbabwe's entry into the Fourth Industrial Revolution. He pledged his support to making HIT the citadel of inventions and a critical strategic institution for technological skills development. HIT, he said had established an enviable base of the requisite human intellectual capital to champion this cause.

The University, has over the years garnered a unique and empowered human resource base with competencies in new age technologies which are critical in delivering on the execution of Industry 4.0. The teaching staff has acquired competencies in areas such as Nanotechnology, Bio Informatics, Artificial Intelligence, Big Data Analytics, Bio medical engineering among others.

Eng. Kanhukamwe said soft skills were an important asset in realising gains.

"There is need for a radical change in focus and attitude to be reflected through an increased and marked commitment to our core values; Innovation, Leadership, Integrity, Commitment, and Professionalism. The University's challenges and risks, prompt us to define how we should maintain and enhance the infrastructure needed for our research at a time when traditional sources of funding are diminishing. We need to ask ourselves fundamental questions on how we can give our students the best experience by offering appropriate financial support to ensure that their academic and personal well-being need are met. We should also put in place the right incentives and support to sustain and expand our excellence in teaching, research and development as well as innovation outputs. We should nurture a truly welcoming diverse and inclusive environment for students and staff, and strive to attain a global university status as well as maintaining," he said.

He highlighted that it was the duty of all academic leaders to examine these issues and continuously provide appropriate and timeous responses.

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NEW SEMESTER AND POSTGRAD PROGRAMMES COMMENCE

The Second Semester of the 2018/19 academic year commenced in earnest on Monday 11 February 2019, with the commencement of three new postgraduate programmes.

The new postgraduate programmes are the MTech degrees in Cloud Computing, Information Technology and Machine Design.

The Semester Break is scheduled between 1-5 April while SWOT Week is from 13-17 April. Exams will start on 20 May 2018.

INNOVATION **LEADERSHIP**
INTEGRITY **COMMITMENT**
PROFESSIONALISM

TTLCC MANUFACTURES ELECTRICITY TRANSFORMERS



Some of the electricity transformers manufactured by HIT's TTLCC.

The Technology Transfer, Licensing and Commercialisation Centre has already achieved a milestone by manufacturing electricity transformers which were previously imported, a move expected to ease the supply of electricity to household and industrial users.

Director of the Technology, Transfer Licensing and Commercialisation Centre Dr. Eng. Talon Garikayi said the project which started five years ago is now in full throttle and they are now supplying electricity transformers to various sectors and commercial users. This move is expected to ease the supply of electricity to household and industrial users by availing locally-made electricity transformers, cutting on imports.

Powerfirm Engineering Pvt Ltd is company wholly owned by Harare Institute of Technology specialising in power technologies. These include the design and manufacture of both oil and dry power and distribution transformers.

“In the past, a dysfunctional transformer would be dumped into a scrap yard plunging households into lengthy periods of darkness before ZESA imports another one, but this centre can fix the transformers to their original state. All components used in the re-engineering processes are sourced locally saving the country of foreign currency,” said Dr. Eng. Garkayi.

This is an important home grown solution that cannot be underestimated and the manufacturing of electricity transformers at HIT dovetails with the country's industrialisation agenda.

The economy has been negatively affected by

the vandalism of electricity infrastructure, so the innovation of transformers by the centre will ease the electricity supply situation and reduce the country's import bill.

Technology Transfer, Licensing and Commercialisation Centre is currently seized with incubating start-ups with established companies and investors in the areas of energy development, artificial intelligence, and the development of smart programmes in the transport and local authorities' sectors.

According to Eng. Talon Garikayi, Director of the Technology Transfer, Licensing and Commercialisation Centre (TTLCC), they are currently incubating several start-up projects which included PowerTeam Technologies, a company wholly owned by HIT through its commercial arm Institech Holdings. “Other start-up projects by the Centre are Foodtech (Private) Limited and LADS (Private) Limited. PowerTeam is responsible for transformer manufacturing based on patented

designs by HIT, while LADS develops business solutions' softwares for local authorities and the system is already being used by two rural district councils.

“There is also Nhaka Pvt Ltd which has developed the Nhaka e-learning platform in partnership with Telone. The platform has already been adopted by the Ministry of Primary and Secondary Education and will be rolled out soon to more than 1000 schools,” said Eng. Garikayi.

The Ministry of Higher and Tertiary Education, Science and Technology Development has so far released a one million dollar grant for the Technology Transfer, Licensing and Commercialisation Centre to fund its research and innovations development, incubation and commercialisation of its projects.

...VICE CHANCELLOR'S CHARGE UNVEILED

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Eng. Kanhukamwe also exhorted all leaders to strive to achieve, maintain and safeguard those unique elements that have made HIT an example of learning and scholarship. “There must be fundamental commitment to critical thinking, he said. Academic freedom is also critical in fostering and facilitating interdisciplinary dialogues,” he added.

He also called for a democratic system of governance that includes and benefits from diverse viewpoints including a robust system of deliberations that ensures the maintenance of the university's values in all its partnerships and a common recognition that HIT must be a local good citizen, regional champion and national asset.

The Vice Chancellor reiterated that the University's thrust is not to arbitrarily increase numbers in terms of student enrolment. “Our increase in admissions shall be systematic and supported by available infrastructure initiatives on the ground. The Institute should make sure that all its Startups in the Technology Transfer, Licensing and Commercialisation Centre (TTLCC) are expert driven,” said Eng. Kanhukamwe.

The Vice Chancellor also exhorted all members of the Academic Leaders Forum to take their time to understand the Transitional Stabilization Agenda so that the University can carve its niche in it.

UNIVERSITY HONOURS PRESIDENTIAL CLEAN UP DECLARATION



HIT Staff cleaning up the campus.

In compliance with the Presidential Clean-Up Declaration by His Excellency the President of the Republic of Zimbabwe, Cde Emmerson Mnangagwa, staff of the Harare Institute of Technology gathered on Friday 4 January 2019 to observe the exercise from 8am.

Staff took to cleaning the university environs as part of broader efforts to promote a clean, safe and healthy environment in the spirit of the Declaration.

The clean-up exercise was an endorsement of His Excellency's call for zero-tolerance to litter, and that the University was committed to maintaining

a litter-free campus, and upholding a culture of cleanliness.

According to the HIT Vice Chancellor Eng. Kanhukamwe, cleanliness is an important part of brand building and through these efforts, Government and its stakeholders are set to play a meaningful role in building brand Zimbabwe.

The exercise involves cleaning the university environs as part of broader efforts to promote a clean, safe and healthy environment in the spirit of the Declaration by His Excellency the President of the Republic of Zimbabwe, Cde Emmerson Mnangagwa.

On December 5 last year, President Mnangagwa declared the first Friday of every month a National Clean-up Day, after the successful launching the National Clean-Up Campaign under the theme "Zero Tolerance to Litter - My Environment, My Pride" in and all citizens are expected to clean their surroundings between 8am and 10am. He has been leading by example since then, leading the clean-up in Highfields and streets around Fife Avenue Shops in Harare.

This event is also being marked concurrently in other areas across the country by Government departments, corporates, civic authorities and individuals.

HIT FORGE LINKS WITH NSSA



NSSA Acting General Manager Mr David Makwara, HIT Pro Vice Chancellor Dr M. Chanakira (left) and Eng. N. Chirinda of the Technology Centre (right) at the MoU signing ceremony.

The Harare Institute of Technology entered into a Memorandum of Understanding with the National Social Security Authority (NSSA) to set the framework that facilitates collaboration and liaison between the two parties in the provision of training in occupational safety and health professional development to industrial personnel who will enrol for the Occupational Safety, Health and Environmental Management Course (OSHEMAC) training.

The event took place at the NSSA Head Office in Harare, with Dr Maxwell Chanakira representing the Vice Chancellor of the Harare Institute of Technology, Eng. Quinton

Kanhukamwe and Mr David Makwara, the Acting General Manager of the National Social Security Authority signing the MoU on behalf of the two parties. The MoU involves HIT's Technology Centre Training Division and NSSA's Occupational Safety and Health Division.

The two parties are committed to cooperate in curriculum development and review, promotion and advertising, participant enrollment, training, assessment and quality assurance as well as certification. The agreement is valid for three years and is subject to mutual renewal and the two parties shall periodically meet and consult

in order to promote smooth operation and cooperation.

Speaking at the signing ceremony HIT's Pro Vice Chancellor Dr . M. Chanakira said there is a possibility that this Occupational Safety, Health and Environmental Management (OSHEMAC) training course can become a degree or a post graduate diploma programme.

NSSA Acting General Manager Mr. D. Makwara said his organisation is proud to be associated with HIT. " HIT is assured of our support and we should be able to work together

HIT ENTERS INTO MOU WITH ZRP



Zimbabwe Republic Police Deputy Commissioner General, (Crime) Cde Mutamba and HIT Pro Vice chancellor Dr M. Chanakira soon after signing the MoU.

Zimbabwe Republic Police Deputy Commissioner General, (Crime), Cde Mutamba has said the Harare Institute of Technology is one of the most revered institutions of technology, and has underscored the importance of a multi-sectoral approach in improving systems to fight crime. Universities and research and development institutions the world over, he said, had a critical role to play in augmenting the work of the security sector.

Speaking during the signing ceremony of a Memorandum of Understanding between the Zimbabwe Republic Police and the Harare Institute of Technology, Cde Mutamba said such relationships were integral for national development to ensue.

HIT and the ZRP signed a Memorandum of Understanding on 29 January 2019, based on cooperation in software enhancement and staff development. Its prime objectives are to collaborate in research and development of technologies aimed at enhancing the capabilities of ZRP operations, the development and deployment of a software system to facilitate the ease of doing business for all departments which fall under the ZRP Criminal Investigation Department, making significant contributions towards the enhancement of the crime analysis function within the ZRP through artificial intelligence and machine learning, and identifying and executing joint cyber security research projects. The MOU is for a period of five years. The University's School of Information Science and Technology will lead implementation of the MOU.

The partnership will assist the ZRP in developing and deploying robust software

systems in the following areas: Scenes of crime, central criminal bureau, national fingerprints bureau, central firearms registry, forensic science laboratory, forensic ballistics, cyber laboratory, criminal intelligence unit, criminal records office and foreigners identification bureau.

Cde Mutamba acknowledged that their institution was policing a technologically advanced 21st century society, adding that criminals now also engaged technological sophistry in perpetuating crime. The collaboration, he said, would enhance ZRPs capacity to fight crime.

Cde Mutamba added that the symbiotic partnership between HIT and ZRP will introduce and integrate new technological innovations with other government departments, improving the ZRPs communication and information sharing capacity with other key stakeholders in the fight against crime, whilst strengthening the ZRPs pedigree in extending the frontiers of a crime-free society.

He added that as a law enforcement agency, they would fully utilise modern ICTS and artificial intelligence in all facets of crime management, eradicating manual systems and improving efficiency in policing systems.

Cde Mutamba said while the country works tirelessly towards attaining an upper middle income economy by 2030, the ability to partner institutions such as HIT were a step in the right direction, as HIT had developed a strong footprint in the technological arena. He urged all police officers to fully embrace this milestone partnership which signaled the

ZRPs presence in the digital society.

Speaking on behalf of the Vice Chancellor Eng. Q.C. Kanhukamwe, Pro Vice Chancellor, Dr Maxwell Chanakira said HIT was proud of being the trailblazer in the whole repertoire of emerging digital technologies, now dubbed Industry 4.0 which relate to concepts of artificial intelligence, machine learning, data mining, robotics, automation to mention a few. He added that HIT was the only University in Zimbabwe offering programmes in the areas of cyber security, digital forensics among others.

Dr Chanakira said the cooperation in software enhancement and staff development was a strong recognition by the ZRP of the University's capabilities in delivering top notch expertise in this area. He also expressed delight at the fact that the ZRP recognizes new developments in the area of digital and cyber security and hence and hence, their partnering with the University in this regard is testament to the significant role and premise they place on these key issues.

Dr Chanakira also added that in order to keep abreast of a rapidly changing world, there was need to remain cognisant of developments in the digital and cyber space and craft new strategies to embrace such technologies. He said it was important to understand their nature, existence, and transformation and circumvent any threats both at the institutional and national level. The MOU, he said was in essence an acknowledgement by both parties of the need to effectively address new and emerging technologies and manipulate them to fulfill our collective needs and aspirations as mandated by Government.

EMRECC & CPSE HOST CONFERENCE ON CURRENT TRENDS IN RENEWABLE ENERGY TECHNOLOGIES (ICCTR -2019)



Some of the delegates (left) following proceedings at the International Conference on Current Trends in Renewable Energy Technologies (ICCTR – 2019), while Director of EMRECC Dr A. Phiri gives his address.

The Harare Institute of Technology's Department of Chemical and Process Systems Engineering (CPSE) in collaboration with the Renewable Energy and Climate Change Centre (EMRECC) and the Environmental Management Agency, held the International Conference on Current Trends in Renewable Energy Technologies (ICCTR – 2019) under the theme "Sustainable Energy Technologies for All (SEFTA).

The conference was held from 6 - 7 February 2019 at the Rainbow Towers Hotel.

The conference provided a platform for academia, industry, government and non-governmental organizations (NGOs) to come together and share innovative ideas and insights with regards to energy challenges as well as proffering applicable and sustainable solutions to the growing challenge.

It focused on both scientific innovations and technovations for sustainable and renewable energy solutions aimed at socio-economic development. This highly interactive fora featured among other things, ground breaking academic research presentations, plenary presentations as well as, panel discussions for policy makers, industry and NGOs.

Participants were drawn from various organisations, local and international partners which include Zimbabwe Energy Council (ZEC), Environmental Management Agency (EMA), Zimbabwe Energy Regulatory Authority (ZERA), Zimbabwe Manpower Development Fund (ZIMDEF), Renewable Energy Association of Zimbabwe, Rural Electrification Agency (REA), Friedrich Ebert Stiftung (FES), Zimbabwe Climate Change, Humanist Institute for Cooperation (HIVOS), Zimbabwe National Water Authority (ZINWA), Practical Action Business Council for Sustainable Development Zimbabwe, Development Bank of Zimbabwe SNV Netherlands, World Energy Council (WEC), World Federation of Engineering

Organizations - Innovation Committee. the conference also got support from the Ministry of Environment, Tourism and Hospitality Industries Ministry of Lands, Agriculture, Water, Climate and Rural Resettlement, Ministry of Energy and Power Development, and Ministry of Higher & Tertiary Education, Science and Technology Development.

In his keynote address at the Official Opening Ceremony Vice Chancellor, Eng Quinton C Kanhukamwe applauded the organisers for giving critical players in the energy sector a unique opportunity to share experiences, and insights as they craft and devise new strategies for the availment of clean energy sources. "As a growing Innovation and Technopreneurial University, HIT has deliberately created an ecosystem of disruptive innovations so that our research, development and innovation outputs become premised on the understanding that these are not mere intellectual exercises. The conference theme, "Sustainable Energy Technologies for All." has been influenced by various factors such as the national energy deficit, - a condition prevalent across the region and the globe. Most of the countries of the world, Zimbabwe not being an exception are facing a great challenge in terms of availability and access to energy. This is especially so in the face of growing demand due to population and industrial growth. Acute shortages of electricity and the increasingly depleting fossil reserve, coupled with environmental concerns surrounding the use of fossil fuels is justification for a shift towards sustainable and renewable energy solutions.

The International Conference on Current Trends in Renewable Energy Technologies should be a platform for academia, industry, government and non-governmental organizations (NGOs) to come together and share innovative ideas and insights with regards to energy challenges and proffering applicable and sustainable solutions to this growing challenge," he said.

Eng. Kanhukamwe added that renewable energy sources are very critical in this century for various reasons as they create sustainable communities, jobs, and arrest the rise in global temperature. "While we acknowledge that various technologies are continuously being developed in this area, some have not been accessible to the poorer communities, resulting in unequal development paths. Energy is the driver of economic development, and with rapid population growth and expansion of the urban centres, there has been an increase in energy requirements. Lack of it, results in energy-poverty which translates to uneven developmental opportunities. I presume that the great deliberations of this conference and the recommendations that this gathering of senior scientists and managers will have a huge impact on the emerging sector of our economy. I thank all the overseas delegates who have travelled from far and wide to participate in this conference. Special thanks are due to the invited keynote speakers for their time and efforts in preparing their presentations. I wish we could make this conference an annual event and continue to harvest from the fruitful deliberations as we continue to grow the renewable energy industry," he concluded.

Speaking at the end of the conference, Chairperson of the Department of Chemical and Process Systems Engineering (CPSE) Eng. M. Manyangadze said the conference scored success as they managed to gather key people and organisations to deliberate on issues concerning renewable energy technologies. "We have heard from the government side, which is the policy side as well as from the civil society, business and industry representatives during our interactive discussion sessions.

HIT students from the departments of Chemical Process Systems and engineering, Industrial and Manufacturing Engineering and the School of Information Sciences and Technology also made presentations at the conference.

STAKEHOLDERS MEET TO DISCUSS PROPOSED MASTER OF TECHNOLOGY DEGREE IN PETROCHEMICALS...



Participants and delegates at the stakeholders meeting to discuss the introduction of the Master of Technology Degree in Petrochemicals Technology programme.

The Department of Chemical and Process Systems Engineering, under the School of Engineering and Technology has convened a stakeholders meeting to discuss the introduction of the Master of Technology Degree in Petrochemicals Technology which will be offered by the Chemical and Process Systems Engineering Department.

The meeting was attended by HIT staff from the School of Engineering and Technology, Chemical and Process Systems Engineering and stakeholders from PetroZim Line, ZIMPHOS, Windmill, Zimbabwe Defence Forces, and Harare Polytechnic College among others.

The MTech programme in Petrochemicals Technology is set to equip students with innovative, analytical and research techniques as well as providing the skills required to explore and process crude petroleum and petrochemicals, carrying out the complete set of activities involved in petrochemicals industry and the process of bringing new products, technologies and services to the market place.

The programme aims to provide in-depth knowledge in design related areas such as rapid processing petrochemicals, product development, optimization and petrochemicals manufacturing technologies.

At the completion of the programme students should be able to apply petrochemicals theory for identification of petroleum elements in the energy systems, apply computer based techniques in the analysis, design and /or process optimisation as well as identifying, formulating and solving processing engineering problems based on data interpretation, experiments and analysis of results. Students should also be able to generate Intellectual Property (IP), manage product design operations and become technopreneurs with

effective engineering communication. They should also have the ability to link research and contemporary engineering practice.

The minimum qualifications required for enrollment into this programme is a B.Tech Honours degree or its equivalent at the level of at least an Upper Second Class in Chemical and

Process Systems Engineering, Process Engineering, Chemical Engineering, Fuels Engineering, Production/Industrial and Manufacturing Engineering. Candidates with experience in the relevant discipline will also be considered on the basis of an entrance test to be conducted the University.

... AND THE B.Tech DEGREE IN BIOMEDICAL ENGINEERING



Stakeholders discussing B.Tech Degree in Biomedical Engineering.

The Department of Electronic Engineering, under the School of Engineering and Technology convened a stakeholders meeting to discuss the introduction of the B.Tech (Hons) Degree programme in Biomedical Engineering.

The programme is earmarked to be launched in August 2019, and this forum was organised to interrogate and add value to the draft programme compiled by the Electronic Department.

The meeting was attended by HIT staff from the School of Engineering and Technology, Electronic Engineering, Industrial and Manufacturing Engineering, Pharmacy Department and stakeholders from Parirenyatwa Group of Hospitals, School of Radiography, Zimbabwe Biomedical Association, National Blood Services Zimbabwe, Zimbabwe Institution of engineers, Diagnostics Labs Pvt Limited, Bymed Medical Pvt Ltd, Leybold, PetroZim Line, Allied Health Practitioners in Zimbabwe, CIMAS, Windmill, Zimbabwe Defence Forces, and Biomedical engineers and technicians.

In his official address to the delegates attending the stakeholders meeting, Dean of the School of

Engineering and Technology Dean Eng. P. Muredzi this was a forum to interrogate and add value to the draft programme before its earmarked launch in August 2019. "As HIT, it is our mandate to ensure that we proffer innovative solutions to national problems," he said.

Eng Muredzi added that HIT intended to generate knowledge and capacitate the biomedical industry, especially with the current government's thrust on modernisation and Industry 4.0. "It is our sincere hope that we will have fruitful plenary discussions in an effort to carry forward this new degree programme for Zimbabwean," said Dean Muredzi.

The B.Tech degree in Biomedical Engineering is a broad multidisciplinary programme encompassing conception, design, testing, manufacturing, installation and maintenance of various equipment, aids and devices to healthcare. It also integrates physical, chemical, mathematical and computational sciences and engineering expertise and technology in prognoses, diagnosis, monitoring and treatment of human injury, disease and health complications that are also associated with ageing.

SECURITY DEPARTMENT CONVENES STUDENT MANAGEMENT WORKSHOP



Participants and delegates at the Student Management Workshop in Gweru.

The Security Department organised a Student Management Workshop under the theme “Campus Activism in the 21st Century: Where is it Coming from and Where is it Going?” held at Mpumalanga Lodge in Gweru on 19 February 2019.

The workshop’s objectives were to educate security personnel and Deans of Student at tertiary institutions on student’s activism, to build synergies between Universities and state security in the maintenance of peace and order, to craft proactive strategies which identify sources of potential conflict between students and the university. It was also aimed at providing a platform for universities to reflect on the changing nature of student activism.

In his official opening address, the Guest of Honour, Vice Chancellor of Midlands State University, who was represented by the Registrar Mr. E. Mupfiga called on institutions of higher learning to stop viewing student activism as a threat, and strive to involve students’ participation and representation in institutional governance issues. “Students must be represented in Departmental Boards, Faculty Boards, Senate, right up to the University Council as this arrangement helps to ensure that nothing directly affecting students is decided in their absence and resonates very well with the mantra “nothing for the students without students”. Our practice should be to involve students and create open platforms for engagement. The more we see student activism entirely as a threat, the more we lose opportunities to leverage on their activism to

improve service provision and governance in our institutions,” he said.

The workshop was attended by over 20 delegates drawn from various universities and colleges in Zimbabwe including 5 presenters who were drawn from tertiary institutions and national security organs. Delegates were drawn from Africa University, Bindura University, Chinhoyi University, Great Zimbabwe, Harare Institute of Technology, Lupane State University, Manicaland State University, Midlands State University, National University of Science and Technology, University of Zimbabwe, Joshua M. Nkomo Polytechnic, Mutare Polytechnic, Office of the President and Cabinet, and the Zimbabwe Republic Police. The 5 presenters who presented on Management of Students Activism are Superintendent Chiukaka and Kavira (ZRP), Mr Nyere and Mr Gondo (Office of the President and Cabinet), and Mr Leo Kusema (HIT).

Mr E. Nyandoro, HIT’s Acting Chief Security Officer said the workshop came up and adopted a number of resolutions that include the convening of annual meetings between state security and campus security officials, improving and enhancing communication between state agents and Campus security. “Delegates also called on the government to be more responsive to students’ welfare issues and open avenues of communication with students’ bodies. Students must be allowed to express themselves in terms of the laws of the country in a non-destructive manner and

without infringing on other people’s rights,” he said.

Mr Nyandoro also added that the workshop also resolved to enhance the involvement of students in critical decision making boards of the University. Other resolutions include the training of Students’ leaders in leadership skills, addressing students’ welfare issues as and when they arise. Security staff were also encouraged to attend graduation ceremonies of other institutions to share knowledge and learn how others managed their events. The delegates also recommended the formation of a Universities Security Association and to improve and increase the relationship of Security Officers and Deans of students as well as the establishment of a national security task force of state security and campus security officials.

CHIEF SECURITY OFFICERS FORUM

This workshop resulted in the formation of the Zimbabwe Association of University Security Administrators (ZAUSA) and the following were elected as executive committee members through an election presided by the Great Zimbabwe University Dean of Students Mrs. Mudavanhu;

Emmanuel Nyandoro: Chairman (HIT)
Patrick Chademana: Vice Chairman (MSU)
Abraham Miti: Secretary (CUT)
Kizito Mpala: Treasure (LSU)
Duncan Mupaso: Committee Member (AU)



HIT PRESENTS LADS AT LOCAL AUTHORITIES WORKSHOP IN GWERU

Eng. T. Maphosa attended the Local Authorities Chartered Accountants Workshop in Gweru, where he presented and got feedback about the Local Authorities Database System (LADS), a business solutions' softwares developed by HIT for local authorities.

The workshop's agenda was to standardize the chartered accounts of all local authorities for easy reporting and to encourage all local authorities to comply with the International Public Sector Accounting Standards (IPSAS) and Government finance statistics.

The forum challenged HIT to continue working on developing LADS to be an integrated and comprehensive system tailor-made for

Zimbabwean local authorities. The system should cover all aspects found in a local authority. The forum's chairpersons also made a formal request to HIT for the production of a prototype by May 2019 which will be presented to another forum of all local authorities. The Accountant General and Chief Accountant of the Ministry of Local Government, Public Works and National Housing also invited the HIT LADS Team to visit their offices for further discussions on the database system.

"We had a wonderful workshop in Gweru. It was a resounding success and we got invaluable exposure and networking," said Eng. T. Maphosa.

TTLCC TRAILBLAZES IN DIGITISATION OF TRANSPORT SECTOR



The Technology Transfer, Licencing and Commercialisation Centre (TTLCC) is working with the Zimbabwe United Passengers Company (ZUPCO) to implement and commercialise its digital transport business management application "NECECITY". The move is set to enforce productivity and efficient service delivery as the company scales up efforts to provide efficient and reliable public passenger transportation nation-wide.

NECECITY is also set to improve efficiency of ZUPCO's transport system and government's initiative towards enhancing the public transport system. NECECITY offers technological solutions to the transport sector by making use of mobile technology to improve public transport reliability. The system offers a real time visual tracking of buses, searching of routes and notifications from the service provider. It also has the ability to inform users on delays that may occur and also enables the creation of new routes, and addition of new bus stops by service administrators.

ZUPCO Chief Executive, Mr Evaristo Madangwa said the public passenger transporter is complementing government

efforts by introducing a digital system that will enable passengers to track and schedule their routes as well as addressing some logistical issues that crippled the company in the past. "We are working on a digital system that will enable us to track our buses, monitor their presence on the roads, track their fuel use and enabling customers to make cashless or pre-paid fares," said Mr Madangwa.

NECECITY, is the brainchild of a collaboration between HIT's research and development team from the Technology Transfer and Licencing Centre (TTLCC) and some Zimbabwean students studying abroad. It is currently in use at Cape Town University and is also being installed at Chinhoyi University of Technology to allow students to know the location of their bus at any given point. The university also can monitor fuel consumption, delays and efficiency of the bus operations.

The digital platform is a game changer in transport management and is currently being tested at ZUPCO's main depot in Harare through the monitoring of its buses on their various routes and depots. The platform is already online and fully functional.

PHARMACY STUDENT VISITS TURKEY



Tinashe Chinyepe, a Pharmacy student recently visited Turkey, to participate in the Winter Student Exchange Programme held in Izmir, organised by the International Pharmaceutical Students Federation (IPSF) from 18 January to 18 February 2019.

Tinashe joined other students from across the world at the Students Exchange Programme, which helps students from member organisations to improve their personal and professional profiles and also to improve education and public health in their local communities by following examples from other countries.

Speaking on his arrival from Turkey, Tinashe said the visit was a life changing opportunity, which brought some professionalism and improvements on his competency in the pharmaceutical career. "I learnt new initiative being undertaken by other international universities and also got an appreciation of different approaches on how lectures are conducted," he said.

Participation in the Student Exchange Programme also allows students to learn from their counterparts in other countries, empowering them to contribute towards the development of the own countries. The International Pharmaceutical Students Federation (IPSF) was founded in 1949 with the statutory of studying and promoting the interests of pharmaceutical students and to encourage international cooperation among them. IPSF has a solid membership of more than 70 organisations representing more than three hundred thousand pharmacy students and recent graduates in over 80 countries worldwide. There are a lot of campaigns and projects implemented into IPSF and the Student Exchange Programme is one of them.



GUEST LECTURE FOCUSES ON CURRENT MARKETING TRENDS



Mr Tafadzwa K. Mukoyi (left), the Guest Speaker at the Public Lecture.



The Technopreneurship Development Centre, held a public lecture under the theme “Current Marketing Trends From The Practical Perspective For Technopreneurs” on 20 February 2019

Mr Tafadzwa K. Mukoyi, a renowned motivational speaker, life coach, entrepreneur, strategist and author delivered an inspirational lecture where he introduced the different aspects of technopreneurship and emphasized that experience, exclusivity expertise, exposure and energy are the ingredients in a recipe for business start-up.

He encouraged students to start-up, stay-up and scale-up hi-tech businesses in Zimbabwe. Mr Mukoyi also advised that one can steal ideas but no one can steal execution or passion. He said that the reason why people do not start their new ventures in a country is due to unawareness and fear of failure, as they opt to go for jobs in private or government sectors so as to minimize the risk. Therefore, he emphasised the importance of the technopreneurship courses being offered to HIT students as they raise the basic awareness of entrepreneurial concepts as well as enabling students to identify and learn how to make a mind-set to take up entrepreneurship as a challenging career.

His presentation also covered the evolution of marketing and marketing philosophies His 7ps KOMBI Model which is inspired by experiences he had from using kombis when traveling also inspired the students who attended the public lecture. He also presented on the importance of marketing for technopreneurs and current trends in Zimbabwe. he concluded his presentation by showing some motivational videos to the students.

The lecture motivated the students to work hard and start new ventures through adequate forward planning and execution of their business plans.



ZIMLIBRARY OPEN DAY

The Zimbabwe Library Association (ZIMLA) held its ZIMLIBRARY Open Day on 21 February 2019 in ZIMRE Park, which was officiated by HIT Senior Librarian and Chairperson of Mashonaland Branch Mr Macdonald Nhakura.

In his official speech, Mr Nhakura highlighted that Zimbabwe Library Association (ZimLA) is the professional association that represents the interests of library and information professionals in Zimbabwe and its major thrust is to foster cooperation among and between these information practitioners, academics and other

interest persons in the sector to enhance professional development. “There is need to promote good practices in the LIS profession and offer staff development and training programmes to equip these professionals with new skills as well as to re-tool and improve existing skills and knowledge base,” he said

The association also launched its publication, ZimLA News with a mission to keep Zimbabwe Librarians informed and also informing international librarians about developments in Zimbabwe.

STUDENTS ESTABLISH THE FOOD TECHNOLOGY ASSOCIATION (FTA)

Harare Institute of Technology students have formed the Food Technology Association (FTA), a platform for interaction, sharing ideas and innovations.

The Food Technology Association aims to serve as a bridge between the food industry and academia, in order to facilitate a smooth and progressive handover takeover from those already in industry to students as well as providing the industry with professionals who are fully prepared for and aware of the needs of the food processing industry. The

association strives to be a body that represents Food Processing Technology students and provide support for their professional development by offering programmes and creating events for this purpose.

It will also facilitate interactions between Food Processing Technology students throughout Zimbabwe, professionals, the general public and other stakeholders from various organisations. The FTA is also set to organise and host various events and

activities which are geared towards fulfilling its objectives and these include student-industry interfaces, exhibitions and industrial visits.

The Association is composed of a diverse group of student leaders under the patronage of the Department of Food Processing Technology.

HIT STUDENTS ATTEND THE ZIMBABWE INTERNATIONAL RESEARCH SYMPOSIUM

Harare Institute of Technology students participated in the 12th Zimbabwe International Research Symposium (ZIRS) at the Rainbow Towers in the country's capital held from the 13 - 15 of February 2019 under the theme "The Nexus between Research Industry: Key to Innovation and Sustainable Development Research Council of Zimbabwe.

The Symposium was organised by the Zimbabwe Research Council (ZRC) and it featured local and international scientific researchers and diplomats as well as representatives from government and non-governmental organizations, industry, commerce and civic society.

The Zimbabwe International Research Symposium (ZIRS) 2019 was officially opened by H.E President Emmerson Mnangagwa who assured the delegates of his government's commitment to continually support research and innovation through allocation of one percent of GDP towards research as already evidenced by the 0.3 percent allocated in the 2019 budget.

The President also called for research efforts across all sectors of the economy to make substantial and vital contribution to the development of the country in order to be meaningful. This is in view of his government's development agenda "Vision 2030" which seeks to usher Zimbabwe into becoming a middle income economy by the year 2030, through industrialisation, modernization and economic development.

Mr. Aamir Butt, Chief Executive Officer of Lancor Scientific Limited and Tumour Trace Limited (UK) was the guest of honour spoke at length on the Science of Entrepreneurship as he delivered a power-packed presentation during a highly interactive session providing insights into the practical aspects of entrepreneurship and its dynamics.

The HIT students had a rare opportunity to learn from other researchers and network with various diplomats and researchers as well as making and pitching their academic presentations and research projects. The

students were drawn from various departments including Software Engineering, Chemical and Processes Systems Engineering, Food Processing Technology,

Industrial and manufacturing Engineering, Biotechnology, Pharmacy, and Electronic Engineering.

HIT @ THE SECOND EDITION OF THE GREAT DYKE CAREER FAIR

Minister of Primary and Secondary Education Honourable Paul Mavhima has said technology will drive the nation towards middle income economy status by 2030.

Speaking to high school learners at the second edition of the Great Dyke Career Fair at Gresham Grounds in Mandava, Zvishavane, held under the theme "Defining your career path," Honourable Mavhima said the application of technology is vital for national development, citing technology

development as the inspiration behind the crafting of the new curriculum for primary and secondary schools.

The Harare Institute of Technology and other institutions of higher and tertiary learning, as well as corporates attended the fair which was attended by over 2000 learners from the Midlands and Masvingo provinces. The event is aimed at providing a platform for interacting with high school learners and providing information on degree choices and career options.

OBITUARY: FELICITY REMEMBERED!

The Chaplaincy recently held a memorial service for the late Felicity Wadzwanya, a student in the Polymer Technology and Engineering department who passed on late last year.

Speaking at the event, Pro Vice Chancellor of HIT, Dr Maxwell Chanakira implored the HIT community to take comfort in God's will for our lives, as well as to celebrate her life and the lives that she touched. He said her passing on, gave us a unique opportunity to reflect on our lives and rededicate and recommit ourselves to pursuing goodness and perfection. He added that Felicity's parents, as having fortitude and strength to accept God's will. Her father, Mr Wadzwanywa said God gives and God takes and the family was now moving forward with hope and faith.

The service was punctuated with the University Choir who sang in Achapella,

"Kana Jesu Achidzoka.

A friend, Loyce Zimucha said Felicity loved God, was a great listener, and a person with great determination. She said she had been robbed of a friend and a

Scripture was quoted from Revelations 14 verse 13 and Mathew 25 verse 14 to 26, with Pastor Gwaze's message based on the need for us to reconcile ourselves with God. He commended the student body for their unity, love and support for each other.

In his Vote of Thanks, Eng. Chikurunhe, lecturer in the Polymer Technology and Engineering department expressed his appreciation to the University administration, the Division of Student Affairs and the Student body for their support for Felicity during her illness and over the duration of her funeral.